ARIZONA

ACCESS SERVICE

Regulations, Rates and Charges
applying to the provision of Access Services
for connection to intrastate communications facilities
for customers within the operating territories of
FRONTIER COMMUNICATIONS OF THE SOUTHWEST, INC.
Arizona

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

(continued)

ARIZONA

ACCESS SERVICE

TABLE OF CONTENTS

	Page No.
CONCURRING CARRIERS	19
CONNECTING CARRIERS	19
OTHER PARTICIPATING CARRIERS	19
REGISTERED SERVICE MARKS	19
REGISTERED TRADEMARKS	19
EXPLANATION OF SYMBOLS	20
EXPLANATION OF ABBREVIATIONS	20
REFERENCE TO OTHER TARIFFS	22
REFERENCE TO TECHNICAL PUBLICATIONS	22

(continued)

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.	
1.	APPLICATION OF TARIFF	25	
2.	GENERAL REGULATIONS	26	
2.1	Undertaking of the Telephone Company	26	
2.1.1	Scope	26	
2.1.2	Limitations	26	
2.1.3	Liability	28	
2.1.4	Provision of Services	30	
2.1.5	Installation and Termination of Services	30	
2.1.6	Maintenance of Services	30	
2.1.7	Changes, Substitutions, and Rearrangements	31	
2.1.8	Refusal and Discontinuance of Service	32	
2.1.9	Limitation of Use of Metallic Facilities	33	
2.1.10	Notification of Service-Affecting Activities	33	
2.1.11	Coordination with Respect to Network Contingencies	33	
2.1.12	Provision and Ownership of Telephone Numbers	33	
2.2	Use	34	
2.2.1	Interference or Impairment	34	
2.2.2	Unlawful Use	34	
2.3	Obligations of the Customer	35	
2.3.1	Damages	35	
2.3.2	Ownership of Facilities and Theft	35	
2.3.3	Equipment Space and Power	35	
2.3.4	Availability for Testing	36	
2.3.5	Balance	36	
2.3.6	Design of Customer Services	36	
2.3.7	References to the Telephone Company	36	
2.3.8	Claims and Demands for Damages	37	
2.3.9	Coordination with Respect to Network Contingencies	38	
2.3.10	Sectionalization of Trouble Reporting	38	
2.3.11	Identification and Rating of VoIP-PSTN Traffic	38	(N)

(continued)

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.	
2.	GENERAL REGULATIONS (Cont'd)		
2.4	Payment Arrangements and Credit Allowances	39	(T)
2.4.1	Payment of Rates, Charges, and Deposits	39	(T)
2.4.2	Minimum Periods	45	
2.4.3	Cancellation of an Order for Service	45	
2.4.4	Credit Allowance for Service Interruptions	46	
2.4.5	Re-establishment of Service Following Fire, Flood or Other Occurrence	51	
2.4.6	Title or Ownership Rights	52	
2.4.7	Access Services Provided by More Than One Telephone Company	53	
2.5	Connections	57	
2.6	Definitions	57	
	Access Area	57	
	Access Code	58	
	Access Minutes	58	
	Access Tandem	58	
	Access Tandem Network	58	
	Answer/Disconnect Supervision	58	
	Attenuation Distortion	59	
	Balance (100 Type) Test Line	59	
	Bit	59	
	Business Day	59	
	Busy Hour Minutes of Capacity (BHMC)	59	
	Call	60	
	Carrier or Common Carrier	60	
	CCS	60	
	Central Office	60	
	Central Office Prefix	60	
	Centralized Automatic Reporting on Trunks Testing	60	
	Circuit(s)	60	
	Channel Service Unit	61	

(continued)

ARIZONA

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.
2.	GENERAL REGULATIONS (Cont'd)	
2.6	Definitions (Cont'd)	
	Channelize	61
	C-Message Noise	61
	C-Notched Noise	61
	Coin Station	61
	Common Line	62
	Communications System	62
	Customer(s)	62
	Data Transmission (107 Type) Test Line	62
	Decibel	62
	Decibel Reference Noise C-Message Weighting	63
	Decibel Reference Noise C-Message Referenced to O	63
	Dual Tone Multifrequency Address Signaling	63
	Echo Control	63
	Echo Path Loss	63
	Echo Return Loss	63
	Effective 2-Wire	64
	Effective 4-Wire	64
	End Office Switch	64
	End User	64
	Entry Switch	65
	Envelope Delay Distortion	65
	Equal Level Echo Path Loss	65
	Exchange	65
	Expected Measured Loss	65
	Extended Area Service	66
	Field Identifier	66
	First Come - First Served	66
	First Point of Switching	66
	Frequency Shift	66
	Grandfathered	67
	Host Office	67

(continued)

ARIZONA

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.
2.	GENERAL REGULATIONS (Cont'd)	
2.6	Definitions (Cont'd)	
	Immediately Available Funds	67
	Impedance Balance	67
	Impulse Noise	67
	Individual Case Basis	68
	Inserted Connection Loss	68
	Interexchange Carrier (IC) or Interexchange Common Carrier	68
	Intermodulation Distortion	68
	Interstate Communications	68
	Intrastate Communications	68
	Line Side Connection	69
	Local Access and Transport Area	69
	Loop Around Test Line	69
	Loss Deviation	69
	Message	69
	Milliwatt (102 Type) Test Line	69
	Network Control Signaling	70
	Nonsynchronous Test Line	70
	North American Numbering Plan	70
	Off-hook	70
	On-hook	70
	Open Circuit Test Line	70
	Originating Direction	71
	Pay Telephone	71
	Phase Jitter	71
	Point of Termination	71
	Premises	71
	Remote Switching Modules and/or Remote Switching Systems	71
	Return Loss	71
	Registered Equipment	72
	Serving Wire Center	72

(continued)

ARIZONA

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.
2.	GENERAL REGULATIONS (Cont'd)	
2.6	Definitions (Cont'd)	
	Seven Digit Manual Test Line	72
	Shortage of Facilities or Equipment	72
	Short Circuit Test Line	72
	Signal-To-C-Notched Noise Ratio	72
	Singing Return Loss	72
	Subtending End Office of Access Tandem	73
	Synchronous Test Line	73
	Telecommunications Service Provider	73
	Terminating Direction	73
	Transmission Measuring (105 Type) Test Line/Responder	73
	Transmission Path	73
	Trunk	73
	Trunk Group	74
	Trunk Side Connection	74
	Two-Wire to Four-Wire Conversion	74
	Uniform Service Order Code	74
	V & H Coordinates	74
	WATS Serving Office	74
	Wire Center	74
3.	CARRIER COMMON LINE ACCESS SERVICE	75
3.1	General Description	75
3.2	Limitations	76
3.3	Undertaking of the Telephone Company	77
3.4	Obligations of the Customer	78
3.5	Payment Arrangements	81
3.6	Payment of Coin Sent-Paid Monies	83
3.7	Rate Regulations	85
3.8	Rates and Charges	93

(continued)

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.	
4.	ORDERING SWITCHED AND SPECIAL ACCESS SERVICE	94	
4.1	Access Service Request Requirements	94	
4.1.1	General	94	
4.1.2	Switched Access Ordering Requirements	95	
4.1.3	Special Access Services	99	
4.1.4	Combined Access Service Arrangements	99	
4.1.5	Equal Access Conversions	100	
4.1.6	Provision of Other Services	101	
4.1.7	Access Order Service Date Intervals	101	
4.1.8	Selection of Facilities for Access Order	102	
4.1.9	Shared Use Facilities	102	
4.2	Access Services Provided by More Than One Telephone Company	103	
4.3	Access Order Charges	105	
4.3.1	Access Service Request Modifications	105	
4.3.2	Cancellation of an Access Service Request	109	
4.3.3	Minimum Period Charges	111	
5.	SWITCHED ACCESS SERVICE	112	
5.1	General	112	
5.2	Language Exceptions	112	(T) (D)
5.3	Rate Exceptions	112	(T)

(continued)

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

Page No.

5. RESERVED FOR FUTURE USE (T)

(D)

(D)

(continued)

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

Page No.

5. RESERVED FOR FUTURE USE (T)

(D)

(D)

(continued)

ARIZONA

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.
6.	SPECIAL ACCESS SERVICE	202
6.1	Provision of Special Access Service	202
6.1.1	Circuit Types	202
6.1.2	Service Configurations	204
6.1.3	Technical Specifications Packages	207
6.1.4	Channel Interfaces	209
6.1.5	Alternate Use	209
6.1.6	Special Facilities Routing	209
6.1.7	Design Layout Report	210
6.1.8	Acceptance Testing	210
6.2	Rate Categories, Applications, and Regulations	211
6.2.1	Rate Categories	211
6.2.2	Minimum Periods	217
6.2.3	Application of Monthly Rates	217
6.2.4	Facility Hubs and Multiplexing	218
6.2.5	Shared Use Analog and Digital High Capacity Services	220
6.3	Metallic Service	222
6.3.1	Basic Circuit Description	222
6.3.2	Technical Specifications Packages	222
6.3.3	Channel Interfaces	222
6.3.4	Optional Features and Functions	222
6.3.5	Rates and Charges	223
6.4	Low Speed Data	224
6.4.1	Basic Service Description	224
6.4.2	Technical Specifications Package	224
6.4.3	Channel Interfaces	224
6.4.4	Optional Features and Functions	224
6.4.5	Rates and Charges	225

(continued)

ARIZONA

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.
6.	SPECIAL ACCESS SERVICE (Cont'd)	
6.5	Voice Grade Service	226
6.5.1	Basic Circuit Description	226
6.5.2	Technical Specifications Packages	227
6.5.3	Channel Interfaces	228
6.5.4	Optional Features and Functions	228
6.5.5	Rates and Charges	234
6.6	Program Audit Service	239
6.6.1	Basic Circuit Description	239
6.6.2	Technical Specifications Packages	239
6.6.3	Channel Interfaces	240
6.6.4	Optional Features and Functions	240
6.6.5	Rates and Charges	241
6.7	Video Service	244
6.7.1	Basic Circuit Description	244
6.7.2	Technical Specifications Packages	244
6.7.3	Channel Interfaces	245
6.7.4	Rates and Charges	247
6.8	Wideband Analog Service	249
6.8.1	Basic Circuit Description	249
6.8.2	Technical Specifications Packages	249
6.8.3	Channel Interfaces	250
6.8.4	Optional Features and Functions	250
6.8.5	Rates and Charges	252

(continued)

ARIZONA

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.
6.	SPECIAL ACCESS SERVICE (Cont'd)	
6.9	Wideband Data Service	255
6.9.1	Basic Circuit Description	255
6.9.2	Technical Specifications Packages	255
6.9.3	Channel Interfaces	255
6.9.4	Optional Features and Functions	256
6.9.5	Rates and Charges	257
6.10	Digital Data Service	262
6.10.1	Basic Circuit Description	262
6.10.2	Technical Specifications Packages	262
6.10.3	Channel Interfaces	263
6.10.4	Optional Features and Functions	263
6.10.5	Rates and Charges	264
6.11	High Capacity Service	267
6.11.1	Basic Circuit Description	267
6.11.2	Technical Specifications Packages	267
6.11.3	Channel Interfaces	268
6.11.4	Optional Features and Functions	268
6.11.5	Rates and Charges	271
6.12	Individual Case Filing	277
7.	MISCELLANEOUS SERVICES	278
7.1	Additional Engineering	278
7.1.1	Charges for Additional Engineering	279

(continued)

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.	
7.	MISCELLANEOUS SERVICES (Cont'd)		
7.2	Additional Labor	280	
7.2.1	Overtime Installation	280	
7.2.2	Overtime Repair	280	
7.2.3	Stand By	280	
7.2.4	Maintenance with Other Telephone Companies	280	
7.2.5	Other Labor	280	
7.2.6	Charges for Additional Labor	281	
7.3	Maintenance of Service	282	
7.4	Additional Testing	283	
7.5	Presubscription	286	
7.6	Protective Connecting Arrangements	293	
7.7	Miscellaneous Equipment	298	
7.8	Telecommunications Service Priority (TSP)	299	
7.9	Standard Jacks - Registration Program	300	
7.10	Billing Name and Address Service	305	
7.11	Unauthorized Change of Local Service Provider	310	
8.	INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS, AND CHANNEL CODES	311	
8.1	Local Transport Interface Groups	311	
8.1.1	Interface Group 1	312	(T)
8.1.2	Interface Group 2	313	|
8.1.3	Interface Group 3	313	|
8.1.4	Interface Group 4	314	|
8.1.5	Interface Group 5	314	|
8.1.6	Interface Group 6	315	|
8.1.7	Interface Group 7	315	(T)

(continued)

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.	
8.	INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS,AND CHANNEL CODES (Cont'd)		
8.1.8	Interface Group 8	316	(T)
8.1.9	Interface Group 9	316	|
8.1.10	Interface Group 10	317	|
8.1.11	Available Premises Interface Codes	317	(T)
8.2	Transmission Specifications for Switched Access Service	321	
8.2.1	Standard Transmission Specifications	321	
8.2.2	Data Transmission Parameters	328	
8.3	Channel Interface and Network Channel Codes	331	
8.3.1	Glossary of Channel Interface Codes and Options	332	
8.3.2	Impedance	337	
8.3.3	Digital Hierarchy Channel Interface Codes	338	
8.3.4	Service Designator/Network Channel Code Conversion Table	339	
8.3.5	Compatible Channel Interfaces	341	
9.	SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES	358	
9.1	General	358	
9.2	Emergency Conditions	359	
9.3	Intervals to Provide Service	360	
9.4	Safeguarding of Service	360	
9.4.1	Facility Availability	360	

(continued)

ARIZONA

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.
9.	SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES (Cont'd)	
9.5	Federal Government Regulations	360
9.6	Service Offerings to the Federal Government	361
9.6.1	Type and Description	361
9.6.2	Mileage Application	364
9.6.3	Rates and Charges	365
10.	SPECIAL FACILITIES ROUTING OF ACCESS SERVICES	368
10.1	Description of Special Facilities Routing of Access Services	368
10.1.1	Diversity	368
10.1.2	Avoidance	368
10.1.3	Cable-Only Facilities	368
10.2	Rates and Charges for Special Facilities Routing of Access Services	369
10.2.1	Diversity	369
10.2.2	Avoidance	369
10.2.3	Diversity and Avoidance Combined	370
10.2.4	Cable-Only Facilities	370
11.	SPECIALIZED SERVICE OR ARRANGEMENTS	371
11.1	General	371
11.2	Rates and Charges	371
12.	EXCEPTIONS TO ACCESS SERVICE OFFERINGS	372

(continued)

ARIZONA

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.
13.	SPECIAL CONSTRUCTION	373
13.1	Application of Tariff	373
13.2	Regulations	373
13.2.1	Filing of Charges	373
13.2.2	Ownership of Facilities	373
13.2.3	Interval to Provide Facilities	373
13.2.4	Special Construction Involving both Interstate and Intrastate Facilities	374
13.2.5	Payments for Special Construction	374
13.2.6	Liabilities and Charges for Special Construction	375
13.2.7	Deferral of Start of Service	382
13.2.8	Definitions	384
13.3	Charges to Provide Permanent Facilities	385
14.	WIRE CENTER AND INTERCONNECTION INFORMATION	386
14.1	Serving Wire Center V and H Coordinate Information - Arizona	386
14.2	Single State Interconnection Information - Arizona	410

(continued)

ARIZONA

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		Page No.
15	ADVANCED COMMUNICATIONS NETWORKS	417
15.1	General	417
15.2	DS1 Cyber Service	417
15.2.1	Definitions	417
15.2.2	General	418
15.2.3	Regulations	420
15.2.4	Application of Rates	421
15.2.5	Rates and Charges	421
15.3	Individual Case Filing	422
16	COLLOCATION	423
16.1	General	423
16.2	Description of Types of Collocation	423
16.3	Ordering Conditions	426
16.4	Installation and Operation	431
16.5	Space Requirements	452
16.6	Liability and Indemnification	455
16.7	Insurance	458
16.8	Confidentiality	461
16.9	Casualty	461
16.10	Termination of Space	461
16.11	Miscellaneous	463
16.12	Virtual Collocation	463
16.13	Microwave Collocation	470
16.14	Rate Regulations	475
16.15	Description and Application of Rate Elements	476
16.16	Rates and Charges	488
17.	PROMOTIONS	495
17.1	General	495

ARIZONA

ACCESS SERVICE

CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS	REGISTERED TRADEMARKS
NONE	NONE

(continued)

ARIZONA

ACCESS SERVICE

EXPLANATION OF SYMBOLS

(C)	-	To signify changed regulation
(D)	-	To signify discontinued rate or regulation
(I)	-	To signify increase
(L)	-	To signify matter relocated without change
(N)	-	To signify new rate or regulation
(R)	-	To signify reduction
(S)	-	To signify reissued matter
(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
ASR	-	Access Service Request
AT&T	-	American Telephone and Telegraph Company
BD	-	Business Day
BHMC	-	Busy Hour Minutes of Capacity
CAROT	-	Centralized Automatic Reporting on Trunks
CI	-	Changes Interface
CO	-	Central Office
COCTX	-	Central Office Centrex
Cont'd	-	Continued
CPE	-	Customer Provided Equipment
Ctx	-	Centrex
dB	-	decibel
dBrnC	-	Decibel Reference Noise C-Message Weighting
dBrnCO	-	Decibel Reference Noise C-Message Weighted O
dBv	-	Decibel(s) Relative to 1 Volt (Reference)
dBvl	-	Decibel(s) Relating to 1 Volt (Reference)
dc	-	direct current
EDD	-	Envelope Delay Distortion
ELEPL	-	Equal Level Echo Path Loss
EML	-	Expected Measured Loss
EPL	-	Echo Path Loss
ERL	-	Echo Return Loss
ESS	-	Electronic Switching System
ESSX	-	Electronic Switching System Exchange
f	-	frequency

(continued)

ARIZONA

ACCESS SERVICE

EXPLANATION OF ABBREVIATIONS (Cont'd)

FID	-	Field Identifier
FCC	-	Federal Communications Commission
FX	-	Foreign Exchange
HC	-	High Capacity
Hz	-	Hertz
IC	-	Interexchange Carrier
ICB	-	Individual Case Basis
ICL	-	Inserted Connection Loss
KBPS	-	Kilobits per second
KHZ	-	Kilohertz
LATA	-	Local Access and Transport Area
Ma	-	Milliamperes
Mbps	-	Megabits per second
MHz	-	Megahertz
MMUC	-	Minimum Monthly Usage Charge
MRC	-	Monthly Recurring Charge
MT	-	Metallic
MTS	-	Message Telecommunications Service(s)
NPA	-	Numbering Plan Area
NRC	-	Nonrecurring Charge
NTS	-	Non-Traffic Sensitive
NXX	-	Three-Digit Central Office Code
OTPL	-	Zero Transmission Level Point
PBX	-	Private Branch Exchange
PCM	-	Pulse Code Modulation
PLP	-	Private Line Ringdown
POT	-	Point of Termination
rms	-	root-mean-square
RSM	-	Remote Switching Modules
RSS	-	Remote Switching Systems
SRL	-	Singing Return Loss
SSN	-	Switched Service Network
SWC	-	Serving Wire Center
TES	-	Telephone Exchange Service(s)
TLP	-	Transmission Level Point
TSPS	-	Traffic Service Position System
TV	-	Television
US0C	-	Uniform Service Order Code
VG	-	Voice Grade
V & H	-	Vertical & Horizontal
WA	-	Wideband Analog
WATS	-	Wide Area Telecommunications Service(s)
WD	-	Wideband Data

(continued)

ARIZONA

ACCESS SERVICE

REFERENCE TO OTHER TARIFFS

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

REFERENCE TO TECHNICAL PUBLICATIONS

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

Compatibility Bulletin 106, Issue 2
Issued: December, 1981 Available: March 11, 1982

Technical Reference:

PUB 41451 High Capacity Terrestrial Digital Service
Issued: January, 1983 Available: May 17, 1983

PUB 60101
Issued: December, 1982 Available: January 17, 1983

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

PUB 62310 Digital Data System Channel Interface Specification
Issued: September, 1983 Available: October, 1983

PUB 62411 High Capacity Digital Service Channel Interface Specifications
Issued: September, 1983 Available: October, 1983

TR-NPL-000334 Voice Grade Switched Access Service
Issued: June, 1986 Available: July, 1986

TR-NPL-000335 Voice Grade Special Access Service
Issued: June, 1986 Available: July, 1986

(continued)

ARIZONA

ACCESS SERVICE

REFERENCE TO TECHNICAL PUBLICATIONS - (Cont'd)

Technical Reference: (Cont'd)

PUB 62501 Addendum Voice Grade Special Access Service
Issued: March, 1984 Available: April, 1984

PUB 62502 Narrowband Special Access Service
Issued: December, 1983 Available: January, 1984

PUB 62503 Program Audio Special Access Service
Issued: December, 1983 Available: March 15, 1984

PUB 62503 Addendum Program Audio Special Access Service
Issued: March, 1984 Available: April, 1984

PUB 62504 Television Special Access Service
Issued: December, 1983 Available: March 15, 1984

PUB 62504 Addendum Television Special Access Service
Issued March, 1984 Available: April, 1984

PUB 62505 Wideband Analog Special Access Service
Issued: December, 1983 Available: January, 1984

PUB 62505 Addendum Wideband Analog Special Access Service
Issued March, 1984 Available: April, 1984

PUB 62506 Wideband Digital Special Access Service
Issued: December, 1983 Available: January, 1984

PUB 62507 Digital Data Special Access Service
Issued: December, 1983 Available: March 15, 1984

PUB 62508 High Capacity Digital Special Access Service
Issued: December, 1983 Available: January, 1984

(continued)

ARIZONA

ACCESS SERVICE

REFERENCE TO TECHNICAL PUBLICATIONS - (Cont'd)

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

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

The following Technical Publication is referenced in this tariff and may be obtained from the National Exchange Carrier Association, Inc., Vice President - Tariff and Regulatory Matters, 100 So. Jefferson Road, Whippany, NJ 07981 and the Federal Communications Commission's commercial contractor.

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

The following tariff is referenced in this tariff and may be obtained from the Federal Communications Commission's commercial contractor.

Exchange Carrier Association
Tariff FCC No. 4

(continued)

ARIZONA

ACCESS SERVICE

1. Application of Tariff

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

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations

2.1 Undertaking of the Telephone Company

2.1.1 Scope

(A) The Telephone Company does not undertake to transmit messages under this tariff.

(B) The Telephone Company shall be responsible only for the installation, operation, and maintenance of the services it provides.

(C) The Telephone Company will, for maintenance purposes, test its services only to the extent necessary to detect and/or clear troubles.

(D) Services are provided 24 hours daily, seven days per week, except as set forth in other applicable sections of this tariff.

(E) The Telephone Company does not warrant that its facilities and services meet standards other than those set forth in this tariff.

2.1.2 Limitations

(A) The customer may not assign or transfer the use of services provided under this tariff; however, where there is no interruption of use or relocation of the services, such assignment or transfer may be made to:

(1) another customer, whether an individual, partnership, association, or corporation, provided the assignee or transferee assumes all outstanding indebtedness for such services, and the unexpired portion of the minimum period and the termination liability applicable to such services, if any; or

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(A) (Cont'd)

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

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

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

(B) 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) 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, except as outlined in (D) following.

(D) When an end office is scheduled to be converted to an equal access end office, and a shortage of facilities exists, the Telephone Company will allocate available resources to participating ICs as set forth in 4.1.5(A) following.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability

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

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

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

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

(1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the IC or end user's own communications.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

((D) (Cont'd)

(2) 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 IC or end user or;

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

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

(F) No license under patents (other than the limited license to use) is granted by the Telephone Company or shall be implied or arise by estoppel, with respect to any service offered under this tariff.

(G) The Telephone Company will defend the customer against claims of patent infringement arising solely from the use by the customer of services offered under this tariff and will indemnify such customer for any damages awarded based solely on such claims.

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

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.4 Provision of Services

The Telephone Company, 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, will provide to the customer upon reasonable notice services offered in other applicable sections of this tariff at rates and charges specified therein.

2.1.5 Installation and Termination of Services

The services provided under this tariff (A) 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 location at the customer-designated premises and (B) will be installed by the Telephone Company to such Point of Termination. The Telephone Company will work cooperatively with the customer to determine the location of the Point of Termination in accordance with the Telephone Company's standard operating procedures.

Each Access Service has only one Point of Termination per customer premises. Any additional terminations beyond such Point of Termination are the sole responsibility of the customer. Moves of the Point of Termination are handled as set forth in Section 5 and 6.2.1(D)(3) following. (T)

2.1.6 Maintenance of Services

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.7 Changes, Substitutions and Rearrangements

Except as provided for equipment and systems subject to FCC Part 68 Regulations at 47 C.F.R Section 68.110(b), the Telephone Company may, where such action is reasonably required in the operation of its business;

(A) Substitute, change, or rearrange any facilities used in providing service under this tariff, including but not limited to;

(1) substitution of different metallic facilities,
(2) substitution of carrier or derived facilities for metallic facilities used to provide other than metallic facilities, and
(3) substitution of metallic facilities for carrier or derived facilities used to provide other than metallic facilities; and
(4) change in the routing of access service traffic.

(B) Change minimum protection criteria;

(C) Change operating or maintenance characteristics of facilities or,

(D) Change operations or procedures of the Telephone Company.

In case of any such substitution, change, or rearrangement, the transmission parameters will be within the range as set forth in 5., 6. and 8. 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.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service

Unless the provisions of 2.2.1(B) or 2.5 following apply, if a customer fails to comply with the regulations set forth in:2.1.6, Maintenance of Services; 2.2.2, Unlawful Use; 2.3.1, Damages; 2.3.4, Availability for Testing; 2.3.5, Balance; and 2.4, Payment Arrangements and Credit Allowances; or fails to make any payment to be made by it on the dates and times herein specified, the Telephone Company may, on thirty (30) days written notice by Certified U.S. Mail to the person designated by that customer to receive such notices of noncompliance:

(a) Refuse additional applications for service and/or refuse to complete any pending orders for service by the noncomplying customer; and/or

(b) Discontinue the provision of the services to the noncomplying customer. In the case of such discontinuance, all applicable charges including termination charges shall become due.

If the Telephone Company does not refuse additional applications for service on the date specified in the thirty (30) days notice given pursuant to (a) above, or does not discontinue its provision of services involved on the date specified in the thirty (30) day notice given pursuant to (b) above and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to refuse additional applications for service to the noncomplying customer without further notice.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.9 Limitation of Use of Metallic Facilities

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

2.1.10 Notification of Service-Affecting Activities

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

2.1.11 Coordination with Respect to Network Contingencies

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

2.1.12 Provision and Ownership of Telephone Numbers

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.2 Use

2.2.1 Interference or Impairment

(A) The characteristics and methods of operation of any circuits, facilities, or equipment provided by other than the Telephone Company and associated with the facilities utilized to provide services under this tariff shall not interfere with or impair service over any facilities of the Telephone Company, its affiliated companies, or its connecting and concurring carriers involved in its services, cause damage to their plant, impair the privacy of any communications carried over their facilities or create hazards to the employees of any of them or the public.

(B) Except as provided for equipment or systems subject to the FCC Part 68 Rules in 47 C.F.R Section 68.108, if such characteristics or methods of operation are not in accordance with (A) preceding, the Telephone Company will, where practicable, notify the customer that temporary discontinuance of the use of a service may be required; however, where prior notice is not practicable, nothing contained herein shall be deemed to preclude the Telephone Company's right to temporarily discontinue forthwith the use of a service if such action is reasonable under the circumstances. In case of such temporary discontinuance, the customer will be promptly notified and afforded the opportunity to correct the condition, which gave rise to the temporary discontinuance. During such period of temporary discontinuance, credit allowance for service interruptions as set forth in 2.4.4 following is not applicable.

2.2.2 Unlawful Use

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer

2.3.1 Damages

The customer shall reimburse the Telephone Company for damages to Telephone Company facilities utilized to provide services under this tariff caused by the 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 tariff shall remain the property of the Telephone Company. Such facilities shall be returned to the Telephone Company by the customer, whenever requested, within a reasonable period following the request in as good condition as reasonable wear will permit.

2.3.3 Equipment Space and Power

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.4 Availability for Testing

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

2.3.5 Balance

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

2.3.6 Design of Customer Services

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

2.3.7 References to the Telephone Company

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.8 Claims and Demands for Damages

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

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

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

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Coordination with Respect to Network Contingencies

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

2.3.10 Sectionalization of Trouble Reporting

The customer will be responsible for reporting troubles sectionalized to Telephone Company facilities and/or equipment. When trouble cannot be clearly sectionalized to the Telephone Company facilities and/or equipment, the Telephone Company will test cooperatively or independently to assist in trouble sectionalization.

(M)

2.3.11 Identification and Rating of VoIP-PSTN Traffic [1] (N)

(A) Scope

(1) VoIP-PSTN Traffic is defined as traffic exchanged between the Telephone Company end user and the customer in time division multiplexing ("TDM") format that originates and/or terminates in Internet protocol ("IP") format. This section governs the identification of VoIP-PSTN Traffic that is required to be compensated at interstate access rates by the Federal Communications Commission in its Report and Order in WC Docket Nos. 10-90, etc., FCC Release No. 11-161 (Nov. 18, 2011) ("FCC Order"). Specifically, this section establishes the method of separating such traffic (referred to in this tariff as "Relevant VoIP-PSTN Traffic") from the customer's traditional intrastate access traffic, so that such Relevant VoIP-PSTN Traffic can be billed in accordance with the FCC Order.

[1] On April 25, 2012 the FCC released its Second Order on Reconsideration of the USF/ICC Transformation Order. Based on this Order, the tariff language in this section will also apply to originating access for VoIP-PSTN traffic for the period of December 29, 2011 through the effective date of the FCC's April 25th Order, which will occur 45 days after publication of the Order in the Federal Register.

(M) Item 2.4.1 relocated to Sheet No. 39.

(N)

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

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

(A) Scope (Cont'd)

(2) This section will be applied to the billing of switched access charges to a customer that is a local exchange carrier only to the extent that the customer has also implemented billing of interstate access charges for Relevant VoIP-PSTN Traffic in accordance with the FCC Order.

(B) Rating of VoIP-PSTN Traffic

The Relevant VoIP-PSTN Traffic identified in accordance with this tariff section will be billed at rates equal to the Telephone Company's applicable tariffed interstate switched access rates as specified in the Telephone Company's applicable Federal Access Tariff.

As of July 13, 2012, any intrastate originating Toll VoIP-PSTN Traffic will be billed at rates equal to the Company's intrastate originating switched access rates as provided in this tariff. Beginning July 1, 2014, any intrastate originating Toll VoIP-PSTN Traffic identified in accordance with this tariff section will be billed at rates equal to the Telephone Company's relevant interstate switched access rates as provided in the Telephone Company's applicable Federal Access Tariff. (N) | (N)

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

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

(1) The customer will calculate and furnish to the Telephone Company a factor (the "PVU-C") representing the percentage of the total intrastate access MOU that the customer exchanges with the Telephone Company in the State, that is sent to the Telephone Company and that originated in IP format, or is received from the Telephone Company and terminated in IP format. This PVU-C shall be based on information such as traffic studies, actual call detail, or other relevant and verifiable information.

(2) The Telephone Company will, likewise, calculate a factor (the "PVU-T") representing the percentage of the Telephone Company's total intrastate access MOU in the State that the Telephone Company originates or terminates on its network in IP format. This PVU-T shall be based on information, such as the number of the Telephone Company's retail VoIP subscriptions in the state, traffic studies, actual call detail, or other relevant and verifiable information.

(M) Item 2.3.11(C)(3) relocated to Sheet No. 39.2. (M) (N)

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

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

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

(3) The Telephone Company will use the PVU-C and PVU-T factors to calculate a PVU factor that represents the percentage of total intrastate MOU exchanged between a Telephone Company end user and the customer that is originated or terminated in IP format, whether at the Telephone Company's end, at the customer's end, or at both ends. The PVU factor will be calculated as the sum of: (A) the PVU-C factor and (B) the PVU-T factor times (1.0 minus the PVU-C factor). (M)

(4) The Telephone Company will apply the PVU factor to the total intrastate access MOU exchanged with the customer to determine the number of Relevant VoIP-PSTN Traffic MOUs.

(5) If the customer does not furnish the Telephone Company with a PVU pursuant to the preceding paragraph 1, the Telephone Company will utilize a PVU equal to the PVU-T.

(D) Initial PVU Factor

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

(E) PVU Factor Updates

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

(F) PVU Factor Verification

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

(M) Material relocated from Sheet No. 39.1. (N)

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (T)

2.4.1 Payment of Rates, Charges and Deposits (T)
(D)

(A) Deposits (M)

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

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 simple interest at a rate of 6%. Should a deposit be credited to the customer's account, as indicated above, no interest will accrue on the deposit from the date such deposit is credited to the customer's account.

(B) Payment of Rates and Charges

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

(M) Material relocated from Sheet No. 38.

(N)

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) (Cont'd)

For Presubscription Service, the Telephone Company will establish a bill day each month for each end user account. Any applicable Presubscription Charges, any known unbilled charges for prior periods and any known unbilled adjustments for prior periods for Presubscription Service will be applied to this bill. Such bills are due when rendered.

For End User Switched Access Service, Special Access Service, and Miscellaneous Service charges, the Telephone Company will establish a bill day each month for each customer account. The bill will cover nonusage sensitive service charges for the ensuing billing period for which the bill is rendered, any known unbilled nonusage sensitive charges for prior periods and unbilled usage charges for the period after the last bill day through the current bill day. Any known unbilled usage charges for prior periods and known unbilled adjustments will be applied to this bill. Payment for such bills is due as set forth in (3) following. If payment is not received by the payment date, as set forth in (3) following in immediately available funds, a late payment penalty will apply as set forth in (C) following.

All bills dated as set forth in (2) preceding for service, provided to the customer by the Telephone Company are due 31 days (payment date) after the bill date or by the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval, except as provided herein, and are payable in immediately available funds. If such payment date would cause payment to be due on a Saturday, Sunday, or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the first Tuesday in November and the day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment for such bills will be due from the customer as follows:

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) (Cont'd)

(2) (Cont'd)

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

(C) Late Payment Penalty

If any portion of the payment is received by the Telephone Company after the payment date as set forth in (B)(2) preceding, or if any portion of the payment is received by the Telephone Company in funds which are not immediately available to the Telephone Company, then a late payment penalty shall be due to the Telephone Company in addition to the outstanding amount. The late payment penalty shall be the portion of the payment not received by the payment date times a late factor. The late factor shall be the lessor of:

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

(2) 0.000590 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(D) Billing Disputes

In the event that a billing dispute occurs concerning any charges billed to the customer by the Telephone Company the following regulations will apply.

(1) The date of the dispute shall be the date on which the customer furnishes the Telephone Company sufficient documentation to investigate the claim. Documentation must include, at the minimum, the account number under which the bill has been rendered, the date of the bill, the specific items on the bill being disputed, and, when possible, the applicable tariff section upon which the dispute is predicated.

(2) The date of resolution shall be the date on which the Telephone Company completes its investigation of the dispute, notifies the customer of the disposition and applies a credit for the amount of the dispute resolved in the customer's favor or late payment penalty as appropriate. The Telephone Company will work cooperatively with any customer to resolve billing disputes.

(3) If a billing dispute is resolved in favor of the Telephone Company, any payments withheld pending resolution of the dispute shall be subject to the late payment penalty as set forth in (C) preceding.

(4) If a billing dispute is resolved in favor of the customer and the customer pays the total billed amount on or before the payment date, the Telephone Company will refund any over-payment and will apply a credit for a disputed amount penalty as set forth in (a) and (b) following.

(a) If a customer disputes a bill within ninety (90) days of the bill date and pays the total billed amount on or before the payment date, and the billing dispute is resolved in favor of the customer, the customer will receive a credit for a disputed amount penalty from the Telephone Company for the period starting with the date of overpayment and ending on the date of resolution. The credit for a disputed amount penalty shall be an amount equal to the disputed amount resolved in the customer's favor times a penalty factor as set forth in (5) following.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(D) Billing Disputes (Cont'd)

(4) (Cont'd)

(b) If a customer disputes a bill after ninety (90) days from the bill date and pays the total billed amount on or before the payment date and the billing dispute is resolved in favor of the customer, the customer will receive a credit for a disputed amount penalty from the Telephone Company for the period starting with the date of claim and ending on the date of resolution. The credit for a disputed amount penalty shall be an amount equal to the disputed amount resolved in the customer's favor times a penalty factor as set forth in (5) following.

(5) The disputed amount penalty shall be an amount equal to the disputed amount resolved in the customer's favor times a penalty factor. The penalty 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 first date to and including the last date of the period involved, or

(b) 0.000590 per day, compounded daily for the number of days from the first date to and including the last date of the period involved.

(E) Billing Adjustments and Rounding

Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period set forth for services in other sections of this tariff will be prorated to the number of days or major fraction of days based on a 30 day month. When a rate as set forth in this tariff is shown to more than two decimal places, the charges will be determined using the rate shown. The resulting amount will then be rounded to the nearest penny (i.e., rounded to two decimal places).

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(F) Provision of Access Service Billing and Bill Verification

(1) The Telephone Company will, upon reasonable request and if available, furnish such detailed information as may be required for verification of any bill.

(2) The customer will receive its monthly bills in a standard paper format, or, at the customer's option, on magnetic tape in standard industry format for those access services for which the Telephone Company is technically capable of providing magnetic tape billing. Additional copies of the customer's bill may be provided in standard paper format at the rates and charges set forth in (3) following. When the customer requests a paper copy of the customer's bill in addition to the customer bill provided on magnetic tape, the rate set forth in (3) following shall apply per page.

(3) Additional copies of the customer's monthly bill or service and features record in standard paper format, per page:

Rate
$ 0.07

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.2 Minimum Periods

The minimum period for which services are provided and for which rates and charges are applicable is one month except 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 12. following, is one month unless a different minimum period is established with the individual case filing.

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

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

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

2.4.3 Cancellation of an Order for Service

Provisions for the cancellation of an order for service are set forth in Section 4.3.2 following.

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions

(A) General

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer as set forth in Section 5 following. An interruption period starts when an inoperative service is reported to, or discovered by, the Telephone Company designated trouble reporting office and ends when the service is operative. The customer is responsible for sectionalizing trouble to the Telephone Company facilities and/or equipment as set forth in 2.3.10 preceding. (T)

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 calculated as set forth in (B) and (C) following. Interruptions for which no credit allowance applies are set forth in (D) following.

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

For purposes of this section of the tariff, "major fraction" is defined as that time period representing one-half or more of the incremental time period used to apply the credit allowance for those specific services listed in (B) following.

Service interruptions for Specialized Service or Arrangements provided under the provisions of 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.

(B) Special Access Services

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) Special Access Services (Cont'd)

(1) (Cont'd)

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

(a) For two point services, the monthly charge subject to credit shall be the total of all the monthly rate element charges associated with the service (i.e., two circuit terminations, circuit mileage and optional features and functions).

(b) For multipoint services, the monthly charge subject to credit 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 circuit termination per customer premises, circuit mileage and optional features and functions).

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) Special Access Services (Cont'd)

(2) 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 major 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 major 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 circuit termination, circuit mileage and optional features and functions that is inoperative for each period of 5 minutes or major 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 each circuit termination, circuit mileage and optional features and functions that is inoperative for each period of 5 minutes or major fraction thereof that the interruption continues.

(e) For multipoint services, the credit for the monthly or daily charges includes the charges for the distribution amplifier only when the distribution amplifier is inoperative.

(f) When two or more interruptions occur during a period of 5 consecutive minutes, such multiple interruptions shall be considered as one interruption.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) Special Access Services (Cont'd)

(3) For certain Special Access services (Wideband Digital, WD1-3; Digital Data Access, DA1-4; and High Capacity, HC1), any period during which the error performance is below that specified for the service will be considered as an interruption.

(C) Switched Access Service

For Switched Access Service, no credit shall be allowed for an interruption of less than 24 hours. The customer shall be credited for an interruption of 24 hours or more at the rate of 1/30 of any applicable monthly rate, assumed usage, or minimum monthly usage charge for each period of 24 hours or major fraction thereof that the interruption continues.

(D) 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 service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.

(4) Interruptions of 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.

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction, as set forth in Section 13, SPECIAL CONSTRUCTION. The period for which no credit allowance is made begins on the seventh day after the customer receives the Telephone Company's written notification of the need for such replacement and ends on the day after receipt by the Telephone Company of the customer's written authorization for such replacement.

(6) Periods when the customer elects not to release the service of testing and/or repair and continues to use it on an impaired basis.

(7) An interruption or a group of interruptions, resulting from a common cause, for amounts less than one dollar.

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

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

(F) 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.

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(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 alloted time period).

(B) Nonrecurring Charges Apply

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.6 Title or Ownership Rights

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided by More Than One Telephone Company

The Telephone Company will perform the rating and billing of Access Services under this tariff where more than one Telephone Company is involved in the provision of Access Service as set forth in (A), (B), or (C) following. The Single Company Billing arrangement as set forth in (A) following will be used for FGA and FGB Switched Access Services except where interconnection arrangements between the telephone companies involved permit the use of the Multiple Company Billing arrangement as set forth in (B) following. The Telephone Company will notify the customer of the billing arrangement when the customer orders FGA or FGB service. The Multiple Company Billing arrangements, as set forth in (B) following, will be used for all FGC, FGD, and 800 Access Switched Access Services and Special Access Services.

(A) Single Company Billing

The Telephone Company receiving the order from the customer as specified in 4.2(A) following will arrange to provide the service, determine the applicable charges, and bill the customer for the entire service in accordance with its Access Services tariff.

(B) Multiple Company Billing

(1) For access services subject to Multiple Company Billing, the customer will be billed according to one of the following methods:

Single Bill - The customer will receive a single bill for all access services provided by multiple Telephone Companies. The single bill will include all rate elements applicable to the access service(s) provided under one billing account.

Multiple Bill - The customer will receive a bill from each Telephone Company providing the access service(s). Multiple bills will include all charges applicable to the individual portion of the access service(s) provided by each Telephone Company.

The choice of billing method shall be determined by the Telephone Companies involved. The Telephone Company will notify the customer which method applies when the customer orders access service and will provide the customer thirty days' notice in the event that the billing method is changed.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Multiple Company Billing (Cont'd)

(2) For Switched Access Services, the Telephone Company will determine the applicable charges as follows:

(a) Determine the distance in airline miles using the V&H information set forth in Section 14 of this tariff between the Telephone Company's end office switch and the customer's serving wire center.

(b) The airline distance in miles developed in (a) preceding will be multiplied by the Local Transport Mileage rate times the number of access minutes of use times the billing percentage to determine the appropriate Local Transport Mileage charges. The billing percentage is that portion of local transport to be billed by each company and is mutually agreed upon by the Telephone Companies involved in providing Access Services to the customer. Billing percentages are listed in Section 15 of this tariff.

(c) The total Local Transport charge shall be the Local Transport Mileage charge as determined in (b) preceding plus the Local Transport Circuit Connection rate times the number of access minutes of use. The Circuit Connection rate applies only at the Telephone Company end office.

(d) All other appropriate recurring and nonrecurring charges in each Telephone Company's access tariff are applicable.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Multiple Company Billing (Cont'd)

(3) For Special Access Services, the Telephone Company will determine the applicable charges as follows:

(a) Determine the distance in airline miles using the V&H information set forth in Section 14 of this tariff between the locations involved; i.e., the serving wire centers associated with two customer-designated premises, a serving wire center associated with a customer-designated premises and a Telephone Company hub, or two Telephone Company hubs.

(b) The airline distance in miles developed in (a) preceding will be multiplied by the Circuit Mileage - Per Mile rate element times the billing percentage to determine the appropriate Circuit Mileage-Per Mile charges. The billing percentage is that portion of circuit mileage to be billed by each company and is mutually agreed upon by the Telephone Companies involved in providing Access Services to the customer. Billing percentages are listed in Section 14 of this tariff.

(c) The total Circuit Mileage charges shall be the Circuit Mileage Per-Mile charge determined in (b) preceding plus the Circuit Mileage-Fixed charge.

(d) All other appropriate recurring and nonrecurring charges in each Telephone Company's access tariff are applicable.

(C) EAS and Access Tandem Arrangements

Where a customer utilizes FGA and/or FGB Switched Access Services to originate or terminate calls within an Extended Area Service (EAS) calling area or access tandem network provided by more than one telephone company, the Telephone Company may apply additional Switched Access Service charges as set forth in (1) and (2) following, provided the following criteria are met:

- The telephone companies involved are not the same Telephone Company and do not provide service under the same Access Service tariff,

- The telephone companies do not have a revenue sharing arrangement where one telephone company bills the total cost of access which includes the other telephone company's cost of access,

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(C) EAS and Access Tandem Arrangements (Cont'd)

- The telephone companies involved do not bill Switched Access charges in accordance with the Multiple Company Billing Arrangement for subtending end offices of an access tandem as set forth in (B) preceding.

(1) For FGA usage which originates or terminates at a Telephone Company end office within an EAS calling area where the first point of switching (dial tone office) is provided by a different telephone company, the Telephone Company will apply Carrier Common Line rates as set forth in Section 3.8, Local Transport Mileage and Circuit Connection rates to originating access minutes, and End Office rates to originating and terminating access minutes as set forth in 6.6 following. The mileage used to determine the Local Transport Mileage charges will be based on the airline distance between the end office where the call originates and the dial tone office where the FGA service is provided. Such Switched Access charges will be in addition to those charges assessed by the telephone company in whose exchange the first point of switching (dial tone office) is located. Such usage will be determined as set forth in (3) following.

(2) For FGB usage which originates or terminates at a Telephone Company end office which subtends an access tandem provided a different telephone company where the FGB service is provided, the Telephone Company will apply Carrier Common Line rates as set forth in Section 3.8, End Office and Local Transport Circuit Connection Rates as set forth in 6.6 following for all originating and terminating access minutes routed via the access tandem. Such usage will be determined as set forth in (3) following.

(3) FGA or FGB usage originating or terminating at Telephone Company end offices in EAS or access tandem arrangements shall be determined as follows:

(a) Where end office specific usage data are available, such data will be used to determine the charges.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(C) EAS and Access Tandem Arrangements (Cont'd)

(3) (Cont'd)

(b) Where end office specific usage data are not available, the total originating and/or terminating usage will be the measured usage or assumed usage at the first point of switching (i.e., dial tone office for FGA or access tandem for FGB). Originating and/or terminating usage will be determined based upon the ratios of the total number of subscriber lines in the Telephone Company exchange to the total number of subscriber lines in the EAS calling area or access tandem network. These ratios will be applied to the total number of originating and/or terminating access minutes to determine the access minutes for the Telephone Company exchange.

(4) The ratio used to calculate the access minutes as set forth in (3) preceding will be determined by the telephone company and provided to the customer upon request.

2.5 Connections

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

2.6 Definitions

Certain terms used herein are defined as follows:

Access Area

The term "Access Area" denotes a specific calling area serviced by one or more central offices associated with the various Switched Access Services offered under this tariff. The size and configuration of the access area a customer obtains is dependent upon the Feature Group type and the specific charcteristics of the Central Office or Access Tandem Network in which the connection is made.

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Access Code

The term "Access Code" denotes a uniform seven digit code dialed by an end user to access an Interexchange Carrier's facilities. The seven digit FGD code has the form 101XXXX and the seven digit FGB code has the form 950-XXXX or 1+950-XXXX.

Access Minutes

The term "Access Minutes" denotes that usage of exchange facilities in intrastate or foreign service for the purpose of calculating chargeable usage. On the originating end of an intrastate 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 intrastate 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 intrastate 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 switching system that provides a concentration and distribution function for originating and/or terminating traffic between end offices and a customer's premises.

Access Tandem Network

The term "Access Tandem Network" denotes the network of trunk groups that provide a concentration and distribution function for originating and/or terminating Switched Access traffic between a single access tandem and Telephone Company subtending end offices.

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.

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Attenuation Distortion

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

Balance (100 Type) Test Line

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

Bit

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

Business Day

The term "Business Day" denotes the times of day that a company is open for business. Generally, in the business community, these are 8:00 or 9:00 A.M. to 5:00 or 6:00 P.M., respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour workweek. However, Business Day hours for the Telephone Company may vary based on company policy, union contract, and location. To determine such hours for an individual company, or company location, contact the issuing officer at the address shown on Title Page 1.

Busy Hour Minutes of Capacity (BHMC)

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

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Call

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

Carrier or Common Carrier

See Interexchange Carrier.

CCS

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

Central Office

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

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. (T)

Centralized Automatic Reporting on Trunks Testing

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

Circuit(s)

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Channel Service Unit

The term "Channel Service Unit" denotes customer premises 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 narrow band-width or lower speed channels.

C-Message Noise

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

Coin Station

The term "Coin Station" denotes a location where Telephone Company equipment is provided in a public or semipublic place where Telephone Company customers can originate telephone communications and pay the applicable charges by inserting coins into the equipment.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Common Line

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

Communications System

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

Customer(s)

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

Data Transmission (107 Type) Test Line

The term "Data Transmissions (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 differences in power, usually between acoustic or electric signals, equal to ten (10) times the common logarithm of the ratio of two signal powers.

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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.

Dual Tone Multifrequency Address Signaling

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

Echo Control

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

Echo Path Loss

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

Echo Return Loss

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

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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. (T)

End Office Switch

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

End User

The term "End User" denotes any customer of intrastate or foreign telecommunications service that is not a carrier, except that a carrier shall be deemed to be an "end user" to the extent that such carrier uses a telecommunications service for administrative purposes, without making such service available to others, directly or indirectly.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Entry Switch

See First Point of Switching.

Envelope Delay Distortion

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

Equal Level Echo Path Loss

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

Exchange

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

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.

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Extended Area Service

The term "Extended Area Service" denotes a telephone exchange service in which a customer in one exchange can call a local number in another exchange that is part of the extended area without paying a toll charge.

Field Identifier

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

First Come - First Served

The term "First Come - First Served" denotes a procedure followed by the Telephone Company to process fully completed Access Orders according to the sequence in which they are received.

First Point of Switching

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

Frequency Shift

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

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Grandfathered

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

Host Office

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

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.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Individual Case Basis

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

Inserted Connection Loss

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

Interexchange Carrier (IC) or Interexchange Common Carrier

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

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.

(continued)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Line Side Connection

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

Local Access and Transport Area

The term "Local Access and Transport Area" (LATA) denotes a geographic area established by the Telephone Company for the provision and administration of its communications service. It encompasses one or more Telephone Company designated exchanges, which are configured in relative proximity to one another and may be reconfigured by the Telephone Company in the normal operation of its business. As used herein, the term LATA refers only to these Telephone Company designated exchanges and does not necessarily have any predetermined association with the term LATA used by other exchange carriers.

Loop Around Test Line

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

Loss Deviation

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

Message

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

Milliwatt (102 Type) Test Line

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Network Control Signaling

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

Nonsynchronous Test Line

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

North American Numbering Plan

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

Off-hook

The term "off-hook" denotes the active condition of Switched Access or 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 circuit termination of a trunk or line by means of an inductor of several Henries.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Originating Direction

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

Pay Telephone

The term "Pay Telephone" denotes Telephone Company provided instruments and related facilities that are available to the general public for public convenience and necessity, including public and semipublic telephones, and coinless telephones.

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 at 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.

Remote Switching Modules and/or Remote Switching Systems

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

Return Loss

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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 FCC's Rules and Regulations.

Serving Wire Center

That Telephone Company designated wire center serving the customer's designated premises and used for mileage measurement to determine local transport or circuit mileage charges for Access Service.

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.

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.

Singing Return Loss

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

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Subtending End Office of an Access Tandem

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

Synchronous Test Line

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

Telecommunications Service Provider

The term "Telecommunications Service Providers" denotes intraLATA carriers, operator service providers, enhanced service providers and any other provider of intrastate telecommunications services.

Terminating Direction

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

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.

(continued)

ARIZONA

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Trunk Group

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

Trunk Side Connection

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

Two-Wire to Four-Wire Conversion

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

Uniform Service Order Code

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

V&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 horizonal coordinates of the two points.

WATS Service Office

The term "WATS Serving Office" denotes a Telephone Company switching office capable of performing the optional screening functions used in Combined Access Service Arrangements.

Wire Center

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

(continued)

ACCESS SERVICE

3. Carrier Common Line Access Service

The Telephone Company will provide Carrier Common Line Access Service (Carrier Common Line Access) to customers.

3.1 General Description

Carrier Common Line Access provides for the use of Telephone Company common lines by customers for access to end users to furnish Intrastate Communications.

Carrier Common Line Access is provided where the customer obtains Telephone Company Switched Access Service under this tariff.

Premium Access is (1) All Terminating Switched Access Service, and (2) Originating Switched Access Service provided to ICs under this tariff which furnish intrastate MTS/WATS, and (3) Originating Switched Access Service in an end office converted to equal access.

Nonpremium Access is originating Switched Access Service provided in an end office not yet converted to equal access to customers that do not furnish intrastate MTS/WATS.

(continued)

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.2 Limitations

(A) A telephone number is not provided with Carrier Common Line Access.

(B) Detail billing is not provided for Carrier Common Line Access.

(C) Vice President listings are not included in the rates and charges for Carrier Common Line Access.

(D) Intercept arrangements are not included in the rates and charges for Carrier Common Line Access.

(E) All line side connections provided in the same access group will be limited to the same features and operating characteristics.

(F) All trunk side connections provided in the same access group will be limited to the same features and operating characteristics.

(G) Where WATS Access Service is provided which terminates at a WATS Serving Office, minutes which are carried on that end of the service (i.e., originating minutes for outward WATS and WATS-type services and terminating minutes for inward WATS and WATS-type services) shall not be assessed Carrier Common Line Access per minute charges with the following exception:

(1) Carrier Common Line Access per minute charges shall apply when Feature Group A or Feature Group B switched access is ordered from a nonequal access telephone company office that does not have measurement capabilities and the assumed average access minutes, as set forth in Section 5 are used. (T)

(continued)

ARIZONA

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.3 Undertaking of the Telephone Company

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

(B) Where the customer is reselling MTS and/or MTS-type service(s) on which the Carrier Common Line and Switched Access charges have been assessed, the customer may, at the option of the customer, obtain Feature Group A, Feature Group B, or Feature Group D Switched Access Service under this tariff as set forth in Section 6 following for originating and/or terminating access in the local exchange. Such access group arrangements whether single lines or trunks or multiline hunt groups or trunk groups will have Carrier Common Line Access Charges applied as set forth in 3.8.

Resold intrastate inward MTS and MTS-type service(s) shall include collect calls, third number calls and credit card calls where the reseller pays the underlying carrier's service charges; and shall not include interstate minutes of use.

Resold intrastate outward MTS and MTS-type service(s) shall not include collect, third number, credit card, or interstate minutes of use.

(C) When access to the local exchange is required to provide a customer service (e.g., MTS/WATS-type, telex, Data, etc.) that uses a resold Private Line Service, Switched Access Service Rates and Regulations, as set forth in 6. following will apply, except when such access to the local exchange is required for the provision of an enhanced service. Carrier Common Line Access rates and charges as set forth in 3.8 following in accordance with the regulations as set forth in 3.7(E) following.

(continued)

ARIZONA

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.3 Undertaking of the Telephone Company (Cont'd)

(D) The Switched Access Service provided by the Telephone Company includes the Switched Access Service provided for both interstate and intrastate communications and the Carrier Common Line Access rates and charges as set forth in 3.8 following apply in accordance with the regulations as set forth in 3.7(E) following.

(E) When the IC is provided Operator Trunk-Coin or Combined Coin and Non-Coin or Operator Trunk-Full Feature Optional Features for sent-paid pay telephone access as set forth in 6. following, the Company will collect sent-paid monies from pay telephone stations and will remit monies to the IC as set forth in 3.6 following. The Telephone Company will provide message call detail format and bill periods used to determine the monies upon request from the IC.

3.4 Obligations of the Customer

(A) The Switched Access Service associated with Carrier Common Line Access shall be ordered by the customer under other sections of this tariff.

(B) The customer facilities at the premises of ordering customer shall provide the necessary on-hook and off-hook supervision.

(C) Unless the customer reports (1) intrastate use as set forth in (D) following or (2) Feature Group A, B, or D Switched Access Service as set forth in (F) following, all Switched Access Service provided to the customer will be subject to Carrier Common Line Access charges.

(D) When the customer reports interstate and intrastate use of Switched Access Service, the associated Carrier Common Line Access used by the customer for intrastate will be determined as set forth in 3.7(E) following.

(continued)

ARIZONA

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.4 Obligations of the Customer (Cont'd)

(E) Where Feature Group C end office switching is provided without Telephone Company recording and the IC records minutes of use which will be used to determine Carrier Common Line Access charges (i.e., Feature Group C operator and TSPS calls such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number, and/or other like calls), the IC shall furnish such minutes of use detail to the Telephone Company in a timely manner. If the IC does not furnish the data to the Telephone Company, the IC shall identify all Switched Access Services which could carry such calls in order for the billing entity to accumulate the minutes of use through the use of special Telephone Company measuring and recording equipment.

(F) When the customer is reselling MTS and/or MTS-type service as set forth in 3.3(B) preceding, the customer will be charged the Carrier Common Line Access charges in accordance with the regulations as set forth in 3.7(D) following if the customer or the provider of the MTS service furnishes documentation of the MTS usage and/or the customer furnishes documentation of the MTS-type usage. Such documentation supplied by the customer shall be supplied each month and shall identify the involved resold MTS and/or MTS-type services. The monthly period used to determine the minutes of use for resold MTS and/or MTS-type service(s) shall be the most recent monthly period for which the customer has received a bill for such resold MTS and/or MTS-type service(s). This information shall be delivered to the Telephone Company, at a location specified by the Telephone Company, no later than 15 days after the bill date shown on the resold MTS and/or MTS-type service bill. If the required information is not received by the Telephone Company, the previously reported information, as described preceding, will be used for the next two months. For any subsequent month, no allocation or credit will be made until the required documentation is delivered to the Telephone Company by the customer.

(continued)

ARIZONA

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.4 Obligations of the Customer (Cont'd)

(G) When the customer orders Switched Access Service as set forth in (F) preceding, the Telephone Company or the billing entity may request when resold MTS is involved, a certified copy of the customer's MTS usage billing from either the customer or the provider of the MTS Service and/or when resold MTS-type service is involved, a certified copy of the customer's MTS-type usage billing from either the customer or the provider of the MTS-type service. The requests for this billing will relate back no more than 12 months prior to the current billing period.

(H) Where Operator Trunk-Coin or Combined Coin and Non-Coin or Operator Trunk-Full Feature Optional Features for sent-paid pay telephone access is provided to the IC and the IC wishes to receive the monies it is due for the monies collected by the Telephone Company from coin pay telephone stations, the IC shall furnish to the Telephone Company, at a location specified by the Telephone Company, the IC message call detail for the IC sent-paid (coin) pay telephone calls in accordance with the Telephone Company collection schedule. The IC message call detail furnished shall be in a standard format established by the Telephone Company. If no IC message call detail is received from the IC for each bill period established by the Telephone Company, the Telephone Company will assume there were no IC sent-paid (coin) pay telephone calls for the period. In addition the IC shall furnish a schedule of its charges for sent-paid (coin) calls to the Telephone at a location and date as specified by the Telephone Company. Any change in the IC's schedule of charges shall be furnished to the Telephone Company one day after the change becomes effective.

(continued)

ARIZONA

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Payment Arrangements

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

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

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

(continued)

ARIZONA

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Payment Arrangements (Cont'd)

(B) (Cont'd)

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

(2) 0.000590 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company.

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

(continued)

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Payment of Coin Sent-Paid Monies

The Telephone Company will collect the monies from coin pay telephone stations and will determine and remit amounts due to an IC which is provided Operator Trunk-Coin or Combined Coin and Non-Coin or Operator Trunk-Full Feature Optional Features for sent-paid pay telephone access as set forth in 6. as follows:

(A) Bill Period Coin Revenue

The Telephone Company will establish a collection schedule for each coin pay telephone station and will collect the monies from the coin pay stations based on this collection schedule. The monies collected based on this schedule during each bill period established by the Telephone Company will be identified by coin pay telephone station and summed to develop the Bill Period Coin Revenue for each coin record day (i.e., the day a record is prepared and dated to show the amount due the IC).

(B) Total IC Coin Revenue

The intrastate Total IC Coin Revenue will be determined by the Telephone Company based on the customer message call detail received from the customer for each bill period and the IC's schedule of charges for sent-paid coin calls. Such Total Customer Coin Revenue will be developed each coin record day.

(continued)

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Payment of Coin Sent-Paid Monies (Cont'd)

(C) Recourse Adjustments

For each coin record day, the Telephone Company will subtract from the Total IC Coin Revenue an amount for coin station shortages. Coin station shortages are amounts resulting from unauthorized calling at coin pay telephone stations, use of unauthorized coins (i.e, foreign coins, slugs, and improper use of U.S. pennies), unauthorized removal of coins from coin pay telephone stations, and coin refunds beyond the Telephone Company's control. Such amount for coin station shortages will be developed by the Telephone Company by multiplying the Total IC Coin Revenue for each coin record day by a shortage factor. Such amount will be rounded to the nearest penny. The shortage factor will be determined by dividing the yearly total coin shortage amount by the yearly total coin revenue amount (i.e., total coin revenue equals the coin revenue due under exchange tariffs, state toll tariffs, and interstate toll tariffs). The total coin shortage amount and the total revenue amount will be determined by the Telephone Company through an annual special study.

(D) Payment of Net IC Coin Revenue

The Telephone Company will determine the Net IC Coin Revenue for each coin record day by subtracting from the Total IC Coin Revenue determined as set forth in (B) preceding the amount for coin station shortages determined as set forth in (C) preceding. On the date (payment date) determined by adding 45 days to the coin record day, the Telephone Company will remit payment to the IC for the Net IC Coin Revenue.

(continued)

ARIZONA

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Payment of Coin Sent-Paid Monies (Cont'd)

(E) Audit Provisions

Upon reasonable written notice by the customer to the Telephone Company, the customer shall have the right through its authorized representative to examine and audit, during normal business hours and at reasonable intervals as determined by the Telephone Company, all such records and accounts as may under recognized accounting practices contain information bearing upon the determination of the amount payable to the customer. Adjustment shall be made by the property party to compensate for any errors or omissions disclosed by such examination or audit. Neither such right to examine and audit nor the right to receive such adjustment shall be affected by any statement to the contrary, appearing on checks or otherwise, unless such statement expressly waiving such right appears in a letter signed by the authorized representative of the party having such right and delivered to the other party.

All information received or reviewed by the customer or its authorized representative is to be considered confidential and is not to be distributed, provided or disclosed in any form to anyone not involved in the audit, nor is such information to be used for any other purpose.

3.7 Rate Regulations

(A) The Transitional Charges will be billed to each Switched Access Service provided under this tariff in accordance with the regulations as set forth in (E) following, except as set forth in (D) and (F) following.

(continued)

ARIZONA

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.7 Rate Regulations (Cont'd)

(B) When access minutes are used to determine the Transitional Charges, they will be accumulated using call detail recorded by Telephone Company equipment except as set forth in (C) following and Feature Group C operator and TSPS call detail such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number, and/or other like calls recorded by the customer. The Telephone Company measuring and recording equipment except as set forth in (C) following will be associated with end office or local tandem switching equipment and will record each originating and terminating access minute where answer supervision is received. The accumulated access minutes will be summed on a line by line basis, by line group or by end office, whichever type of account is used by the Telephone Company, for each customer and then rounded to the nearest minute.

(C) When Carrier Common Line Access is provided in association with Feature Group A or Feature Group B Switched Access Service in Telephone Company offices that are not equipped for measurement capabilities, an assumed average intrastate access minutes will be used to determine the Transitional Charges. These assumed access minutes are as set forth in Section 6.6(C) of this tariff.

(D) When the customer is provided an access group to be used in conjunction with the resale of MTS and/or MTS-type services as set forth in 3.3(B) preceding, subject to the limitations of Carrier Common Line as set forth in 3.2 preceding, and the billing entity receives the usage information required to calculate the proration of Carrier Common Line as set forth in 3.4(F) preceding, the customer will be billed as set forth in (1), (2) or (3) following.

When the customer is provided with more than one access group in a LATA in association with the resale of MTS and/or MTS-type services, the resold minutes of use will be apportioned as follows:

(continued)

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.7 Rate Regulations (Cont'd)

(D) (Cont'd)

The billing entity will apportion the resold outward MTS and/or MTS-type services and originating minutes of use for which resale credit applies, among the access groups. Such apportionment will be based on the relationship of the originating usage for each access group to the total originating usage for all access groups in the LATA. For purposes of administering this provision:

Resold outward MTS and/or MTS-type services minutes shall be only those attributable to intrastate outward MTS and/or MTS-type minutes and shall not include collect, third number, credit card, or interstate minutes of use.

The resale credit shall apply for resold outward MTS and MTS-type services and minutes of use, provided Carrier Common Line and Switched Access Charges have been assessed on such services.

The billing entity will apportion the resold inward MTS and/or MTS-type services and terminating minutes of use for which resale credit applies, among the access groups. Such apportionment will be based on the relationship of the terminating usage for each access group to the total terminating usage for all access groups in the LATA. For purposes of administering this provision:

Resold inward MTS and/or MTS-type services minutes shall be only those attributable to intrastate inward MTS/MTS-type (i.e., collect calls, third number calls, and credit card calls) and shall not include interstate minutes of use or MTS/MTS-type minutes of use paid for by another party.

The resale credit shall apply for resold inward MTS and MTS-type services and minutes of use, provided Carrier Common Line and Switched Access Charges have been assessed on such services.

(continued)

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.7 Rate Regulations (Cont'd)

(D) (Cont'd)

In order for the rate regulations to apply as set forth in (1), (2) or (3) following, the access groups and the resold MTS and/or MTS-type services must be provided in the same state (except when the same extended area service arrangement is provided in two different states by the same telephone company) in the same exchange, provided by the same telephone company and connected directly or indirectly. For those exchanges that encompass more than one state, the customer shall report the information by state within the exchange.

Each of the access group arrangements used by the customer in association with the resold MTS and/or MTS-type services must be connected either directly or indirectly to the customer designated premises at which the resold MTS and/or MTS-type services are terminated. Direct connections are those arrangements where the access groups and resold MTS and/or MTS-type services are terminated at the same customer designated premises.

Indirect outward connections are those arrangements where the access groups and the resold outward MTS and/or MTS-type services are terminated at different customer designated premises in the same exchange. Such different customer designated premises are connected by facilities that permit a call to flow from access groups to resold MTS and/or MTS-type services.

Indirect inward connections are those arrangements where the access groups and resold inward MTS and/or MTS-type services are terminated at different customer designated premises in the same exchange. Such different customer designated premises are connected by facilities that permit a call to flow from resold inward MTS and/or MTS-type services to access groups.

The adjustments as set forth following will be computed separately for each access group.

(continued)

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.7 Rate Regulations (Cont'd)

(D) (Cont'd)

(1) Access Groups - Non-Equal Access Offices Only

When all the usage on an access group originates from end offices that have not been converted to equal access the Nonpremium Access Charge per minute as set forth in 3.8 following will apply. The minutes billed Carrier Common Line Access Service charges will be the adjusted terminating intrastate access minutes plus the adjusted originating intrastate access minutes for such access groups.

The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold outward MTS and/or MTS-type service minutes of use as set forth in 3.7(D) preceding; but not less than zero.

(2) Access Groups - Equal Access Offices Only

When all the usage on an access group originates from and/or terminates at end offices that have been converted to equal access the Premium Access Charge per minute as set forth in 3.8 following will apply. The minutes billed Carrier Common Line Access Service charges will be the adjusted terminating intrastate access minutes and the adjusted originating intrastate access minutes for such access groups.

The adjusted terminating access minutes will be the terminating intrastate access minutes less the reported resold inward MTS and/or MTS-type service minutes of use as set forth in 3.7(D) preceding; but not less than zero. The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold outward MTS and/or MTS-type service minutes of use; but not less than zero.

(continued)

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.7 Rate Regulations (Cont'd)

(D) (Cont'd)

(3) Access Groups - Non-Equal Access and Equal Access Offices

When an access group has usage that originates from and/or terminates at both end offices that have been converted to equal access and end offices that have not been converted, both transitional premium and nonpremium per minute charges as set forth in 3.8 following will apply. The minutes billed Carrier Common Line Access Service charges will be the adjusted terminating intrastate access minutes plus the adjusted originating intrastate access minutes for such access groups.

The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold outward MTS and/or MTS-type service minutes of use as set forth in 3.7(D) preceding; but not less than zero.

The adjusted originating access minutes and the adjusted terminating access minutes will be apportioned between premium and nonpremium access minutes using end-office specific usage data when available, or when usage data are not available, the premium and nonpremium ratios developed as set forth in Section 5 following. The Premium and Nonpremium per minute charges set forth in 3.8 following will apply as appropriate to the premium and nonpremium access minutes determined in this manner. (T)

(continued)

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.7 Rate Regulations (Cont'd)

(D) (Cont'd)

(4) The adjustment as set forth in (1), (2), and (3) preceding will be made to the involved customer account no later than either the next bill date, or the one subsequent to that, depending on when the usage report is obtained.

(5) When the MTS and/or MTS-type usage is shown in hours, the number of hours shall be multiplied by 60 to develop the associated MTS and/or MTS-type minutes of use. If the MTS and/or MTS-type usage is shown in a unit that does not show hours or minutes, the customer shall provide a factor to convert the shown units to minutes.

(6) The adjustment as set forth in (1), (2), and (3) preceding will be made to the involved customer account after making the adjustments to the customer account as set forth in (E) following.

(E) When the customer reports interstate and intrastate use of in-service Switched Access Service, the Carrier Common Line Access Transitional Charges will be billed only to intrastate Switched Access Service access minutes based on the data reported by the customer as set forth in Section 5 following. The intrastate Switched Access Service access minutes will, after adjustment as set forth in (D) preceding, when necessary, be used to determine the Carrier Common Line Charges as set forth in (F) following. (T)

(F) After the adjustments as set forth in (D) and (E) preceding have been applied, when necessary, to the Switched Access Service access minutes, the charges for the involved customer account will be determined as follows:

(continued)

ARIZONA

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.7 Rate Regulations (Cont'd)

(F) (Cont'd)

(1) The access minutes for all premium-rated Switched Access Service subject to Carrier Common Line charges will be multiplied by the Transitional Charge - Premium Access per minute rate as set forth in 3.8 following to determine the charges.

(2) The access minutes for all nonpremium-rated Switched Access Service subject to Carrier Common Line charges will be multiplied by the Transitional Charge - Nonpremium Access per minute rate as set forth in 3.8 following to determine the charges.

(3) Carrier Common Line charges shall not be reduced as set forth in 3.3(B) preceding unless Switched Access Charges, as set forth in Section 6 following, are applied to the customer's Switched Access Services.

(4) The terminating Premium Access or Nonpremium Access, per minute charge(s) apply to all terminating access minutes of use, plus all originating access minutes of use associated with calls placed to 800 and/or 900 numbers, plus all originating access minutes of use associated with FGA Access Services where the off-hook supervisory signaling is forwarded by the customer's equipment when the called party answers.

(5) The originating Access, per minute charge(s) apply to all originating access minutes of use, less those originating access minutes of use associated with calls placed to 800 and/or 900 numbers and less those originating access minutes of use associated with FGA Access Services where the off-hook supervisory signaling is forwarded by the customer's equipment when the called party answers.

(continued)

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.8 Rates and Charges

The rate for Carrier Common Line Access is:

Transitional Charge

Premium Access, per minute		
- Terminating	$ 0	
- Originating, per Access Minute – Non 800/888	0.0242823	(C)
- Originating, per Access Minute – 800/888	*	(N)
Nonpremium Access, per minute		
- Originating, per Access Minute – Non 800/888	0.0113400	(C)
- Originating, per Access Minute – 800/888	*	(N)

* See Frontier Telephone Companies Tariff FCC No. 6 for rates (N)

(continued)

ARIZONA

ACCESS SERVICE

4. Ordering Switched and Special Access Service

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

4.1 Access Service Request Requirements

An Access Service Request (ASR) is used by the Telephone Company to provide the customer with Switched Access Service as set forth in 5 following, and Special Access Service as set forth in 6. following or to provide changes to existing services.

When placing an order for Access Services, the customer must complete a Telephone Company Access Service Request and shall provide the information as required in 4.1.1, 4.1.2, and 4.1.3 following.

4.1.1 General

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

A customer may order access service on behalf of the customer's end user. The customer must provide the Telephone Company all the necessary information as set forth in this section.

The customer shall provide all information necessary for the Telephone Company to provide and bill for the requested service. In addition to the order information required in 4.1.2 and 4.1.3 following, the customer must also provide:

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

(continued)

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.1 Access Service Request Requirements (Cont'd)

4.1.2 Switched Access Ordering Requirements

Switched Access Service may be ordered by the customer on the basis of line-side or trunk-side access connections at Telephone Company locations. Trunk side ordering regulations are as set forth in 4.1.2(A) following. Line side ordering regulations are as set forth in 4.1.2(B) following.

(A) Trunk Side Access Services

Feature Groups B, C, D, 800 and 900 Access services are provided by the Telephone Company via trunk side connections. Trunk side services may be ordered at the option of the customer, in BHMCs or in trunk quantities. 800 or 900 Access Service Trunks are provided only at Telephone Company designated switches capable of performing the customer identification function for 800 or 900 service. When direct routing of 800 or 900 Access Service traffic via 800 or 900 Access Service trunks is desired, or when the customer's 800 or 900 Access Service traffic is combined in the same trunk group arrangement with the customer's FGC or FGD traffic, the customer must complete an Access Service Request as set forth in (1) or (2) following.

(1) Trunk Ordering

Customers may order Feature Groups B, C, or D and 800 and 900 Access Services by specifying the number of trunks desired between their premises and the end office when direct routing to the end office is desired or the access tandem switch when routing is desired via an access tandem switch and the Local Transport and Local Switching Options desired. When ordering by trunk quantities rather than BHMC quantities to an access tandem, the customer must also provide to the Telephone Company a Traffic Distribution Request specifying an estimate of the amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Telephone Company in its own efforts to project further facility requirements. The major traffic types and directionality must also be specified to enable efficient provisioning and billing functions.

(continued)

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.1 Access Service Request Requirements (Cont'd)

4.1.2 Switched Access Ordering Requirements (Cont'd)

(A) Trunk Side Access Services (Cont'd)

(1) Trunk Ordering (Cont'd)

There are two major traffic types identified as Originating and Terminating traffic. Because some customers will wish to further segregate their originating traffic into separate trunk groups, originating traffic may be further categorized into Domestic, 800, 900, Operator and IDDD.

When a customer orders Feature Group B, C, D, 800 or 900 Access Service in trunks, the customer is responsible to assure that sufficient access facilities have been ordered to handle this traffic.

(2) BHMC Ordering

Customers may order Feature Groups B, C, D, 800 or 900 Access Switched Access Service by specifying the number of busy hour minutes of capacity (BHMC) from the customer's premises to the end office by Switched Access arrangement and by type of BHMC. This information is used to determine the number of transmission paths as set forth in Section 5 following. The customer then specifies the Local Transport and Local Switching options desired, and for FGB the manner in which intrastate communications shall be completed. (T)

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

(continued)

ARIZONA

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.1 Access Service Request Requirements (Cont'd)

4.1.2 Switched Access Ordering Requirements (Cont'd)

(A) Trunk Side Access Services (Cont'd)

(2) BHMC Ordering (Cont'd)

BHMCs are differentiated by type and directionality of traffic carried over a Switched Access Service arrangement. Differentiation of traffic among BHMC types is necessary for the Telephone Company to properly design Switched Access Service to meet the traffic carrying capacity requirement of the customer. There are two major BHMC categories identified as Originating and Terminating. Because some customers will wish to further segregate their originating traffic into separate trunk groups, originating BHMCs are further categorized into Domestic, 800, 900, Operator, and IDDD.

(3) 900 NXX Code Activation/Deactivation

900 Access Service NXX Code Activation or Deactivation shall be ordered by the customer for an entire Telephone Company jurisdiction. Telephone Company jurisdiction is set forth on Page 1 preceding. The customer must specify in its Access Service Request, the 900 NXX codes to be activated or deactivated in the service area desired

When a customer's 900 Access Service traffic originates from a Telephone Company end office which is not capable of performing the customer identification function the customer may be required, upon reasonable notice, to provide the Telephone Company an estimate of the amount of traffic it will generate from the end office to assist the Telephone Company in its own efforts to project future facility requirements.

For additions and/or deletions of 900 Access Service NXX(s) subsequent to the initial order for service, the customer shall place an Access Service Request for such additions and/or deletions at least 30 days prior to the effective date of the change in order to allow the Telephone Company sufficient time to implement the change. Calls originating in Telephone Company jurisdictions to NXXs which the customer has not ordered activated will be blocked in those end offices or access tandems which possess the technical capabilities to block such calls.

(continued)

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.1 Access Service Request Requirements (Cont'd)

4.1.2 Switched Access Ordering Requirements (Cont'd)

(B) Line Side Access Services

Feature Group A Access Service is provided by the Telephone Company via line-side connections. All customers shall provide the ordering requirements as follows:

For Feature Group A Switched Access Service, the customer shall specify the number of lines and the first point of switching (i.e., dial tone office), the Local Transport options and Local Switching options desired, and the manner is which intrastate communications shall be completed. In addition, the customer shall also specify which lines are to be arranged in multiline hunt group arrangements and which lines are to be provided as single lines.

When Feature Group A is ordered the customer shall specify whether or not the terminating traffic is to be restricted to the FGA Access Area (local exchange calling area) as set forth in Section 5 following or allowed to extend beyond the FGA Access area but within the LATA. When Feature Group A traffic is terminated beyond the Access Area but remains within the LATA, the rates for Switched Access as set forth in Section 5 following, will apply. (T) (T)

(continued)

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.1 Access Service Request Requirements (Cont'd)

4.1.3 Special Access Services

When placing an order for Special Access Services, the customer must provide the requirements as follows:

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

4.1.4 Combined Access Service Arrangements

The Combined Access Service Arrangement optional feature, as set forth in Section 5 following, is ordered by a customer in the provision of that customer's intrastate communications service (e.g., WATS, 800, or WATS-type services) to end users. Orders for the Combined Access Service Arrangement must specify the required information as set forth preceding for the appropriate Switched Access Service Feature Group and Voice Grade Special Access Service. The customer must also specify the Combined Access Service Arrangement optional features, if any, the directionality of the service to be provided (i.e, originating, terminating, or two-way) and the type of Supervisory Signaling. (T)

If the wire center that serves the customer's end user premises is not capable of providing the necessary functions to combine Switched and Special Access Services as requested by the customer or is not a WATS Serving Office (WSO) the Telephone Company will configure the Special Access portion of the service to the nearest wire center where the necessary functions exist.

(continued)

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.1 Access Service Request Requirements (Cont'd)

4.1.5 Equal Access Conversions

When an office is scheduled to be converted to equal access, the IC must submit an Access Service Request for FGD service no later than 120 days prior to the end office equal access conversion date in order for the IC to participate in the presubscription process.

Customers may request existing FGA or FGB services be converted to FGD upon the conversion of an office to equal access. Changes in Feature Group types are provided as set forth in Section 5 following. (T)

(A) Feature Group D Facilities Shortages

In the event a shortage of FGD resources exists, the Telephone Company will make every reasonable effort to meet all Access Service Requests as of the equal access conversion date. In the event these efforts are unsuccessful, the Telephone Company will notify all ICs requesting FGD service that a shortage of facilities exist and allocation of available facilities among participating ICs is necessary.

The available resources are determined by the Telephone Company and represent the equipment and facility quantities necessary to provide FGD service, excluding intraLATA FGC and interLATA FGC terminating resources currently in service. If the interLATA FGC trunks are arranged to carry two-way traffic, one half will be considered available resources.

FGD resources are allocated to each IC based on the percent of end users that are presubscribed to that IC as counted 30 days prior to the conversion date. For example, if 10% of end users in an end office scheduled to be converted to equal access are presubscribed to a particular IC, 10% of the total available FGD services will be allocated to that IC.

The quantity of resources in service for each IC as determined by the allocation process will be adjusted on the basis of actual usage and blocking measurements. Actual usage adjustments will be made 90 days after conversion to equal access. If necessary, this reallocation process will continue at three month intervals until all initial service requests have been met.

(continued)

ARIZONA

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.1 Access Service Request Requirements (Cont'd)

4.1.6 Provision of Other Services

(A) Testing Service, Additional Labor, Restoration Priority, and Special Facilities Routing shall be ordered with an Access Service Request or as set forth in (B) following. The rates and charges for these services, as set forth in other sections of this tariff, will apply in addition to the ordering charges set forth in this section and the rates and charges for the Access Service with which they are associated.

(B) Where possible, the Telephone Company will allow the services listed preceding to be subsequently added to an Access Service Request at any time, up to and including the service date for the Access Service. When added subsequently, charges for a design change as set forth in 4.3.1(C) following will apply when an engineering review is required.

(C) Additional Engineering is not an ordering option, but will be applied to an Access Service Request when the Telephone Company determines that Additional Engineering is necessary to accommodate a customer request. Additional Engineering conditions and charges are as set forth in 7.1 following and are in addition to the regulations, rates and charges specified in this section.

4.1.7 Access Order Service Date Intervals

Access Service is provided with Service Date Intervals. The Service Date Interval is that period of time which the Telephone Company requires to properly provision the service and begins when the customer submits a completed Access Service Request for service, as set forth in 4.1 preceding. The Telephone Company shall publish and make available to all customers, upon reasonable request, a schedule of Service Date Intervals applicable for Switched and Special Access Services. The schedule shall specify the services and the quantities of services that can be provided in the Service Date Intervals. Service Date Interval schedules are provided during regular business days at Telephone Company offices at which the customer places an order for Access Service.

(continued)

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.1 Access Service Request Requirements (Cont'd)

4.1.7 Access Order Service Date Intervals (Cont'd)

Access Services provided in a Service Date Interval will be installed during Telephone Company business days. If a customer requests that installation be done outside of scheduled work hours, and the Telephone Company agrees to this request, the customer will be subject to applicable Additional Labor Charges as set forth in 7.2. following.

4.1.8 Selection of Facilities For Access Order

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

For all other Access Service Requests, the option to request a specific transmission path or channel is not provided except as provided for under Special Facilities Routing as set forth in 10. following.

4.1.9 Shared Use Facilities

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

(continued)

ARIZONA

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.2 Access Services Provided by More than One Telephone Company

The Telephone Company will provide Access Services under this tariff where more than one Telephone Company is involved in the provision of Access Service as set forth in (A), (B), or (C) following. The Single Company Billing arrangement as set forth in (A) following will be used for FGA and FGB switched access services except where interconnection arrangements between the telephone companies involved permit the use of the Multiple Company Billing arrangement as set forth in (B) following. The Telephone Company will notify the customer of the billing arrangement when the customer orders FGA or FGB service. The Multiple Company Billing arrangement, as set forth in (B) following, will be used for all FGC, FGD, and 800 Access Switched Access Services and Special Access Services.

(A) Single Company Billing

For FGA Switched Access Service the customer shall submit an ASR to the Telephone Company in whose territory the dial tone office is located. For FGB the customer shall submit an ASR to the Telephone Company in whose territory the end office switch or access tandem is located. The Telephone Company receiving the order from the customer will arrange to provide the service and bill the customer as set forth in 2.4.7 (A) preceding.

For services ordered as set forth preceding, the customer shall provide a copy of the ASR containing all information as required in 4.1 preceding to any other Telephone Company involved in providing the service.

(continued)

ARIZONA

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.2 Access Services Provided by More than One Telephone Company (Cont'd)

(B) Multiple Company Billing

For all Switched and Special Access Services, the customer shall submit an ASR to each Telephone Company involved in providing the service.

Each Telephone Company will provide the appropriate access service elements within its operating territory to a physical point of interconnection with the other involved telephone company(ies). The physical point of interconnection is the location where one telephone company's facilities connect with another telephone company's facilities.

Each telephone company that receives an order will bill the customer for the appropriate access service elements provided by each respective telephone company as set forth in 2.4.7(B) preceding.

(C) EAS and Access Tandem Arrangements

Where a customer utilizes FGA to originate and/or terminate calls within an Extended Area Service (EAS) calling area or FGB to originate and/or terminate calls within an access tandem network provided by more than one telephone company, as set forth in 2.4.7(C) preceding, the customer shall submit an ASR for FGA or FGB service in the manner set forth in (A) preceding. The customer shall also provide a copy of the ASR to any other telephone company involved in providing the service within the EAS calling area or access tandem network.

(continued)

ARIZONA

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.3 Access Order Charges

4.3.1 Access Service Request Modifications

The customer may request a modification of its Access Service Request prior to the service date. The Telephone Company will make every effort to accommodate a requested modification when it is able to do so with the normal work force assigned to complete such an order within normal business hours. If the modification cannot be made with the normal work force during normal business hours, the Telephone Company will notify the customer. If the customer still desires the Access Service Request modification, the Telephone Company will schedule a new service date. All charges for Access Service Request modifications will apply on a per occurrence basis.

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

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

(A) Service Date Change Charge

Access Order service dates may be changed, but the new service date may not exceed the original service date by more than 30 calendar days. If the customer is unable to accept the service on the established service date and/or the customer requested service date is more than 30 calendar days after the original service date, the customer will have the option of (a) or (b) following:

(1) The original order will be cancelled by the Telephone Company, and reissued with appropriate cancellation charges applied, or

(2) The billing will commence for the services ordered on the original ASR.

(continued)

ARIZONA

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.3 Access Order Charges (Cont'd)

4.3.1 Access Service Request Modifications (Cont'd)

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

If the Telephone company determines it can accommodate the customer's request without delaying service dates for orders of other customers, a new service date may be established that is prior to the original standard or negotiated interval service date.

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

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

	Charge
Service Date Change Charge, per order	$ 27.00

(B) Partial Cancellation Charge

Any decrease in the number of ordered Special Access Service circuits or Switched Access Service lines, trunks or busy hour minutes of capacity will be treated as a partial cancellation and the charges as set forth in 4.3.2(C) following will apply.

(continued)

ARIZONA

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.3 Access Order Charges (Cont'd)

4.3.1 Access Service Request Modifications (Cont'd)

(C) Design Change Charge

The customer may request a design change to the service ordered. A design change is any change to an Access Service Request 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 premises, end user premises, end office switch, Feature Group type, or Special Access Service circuit type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

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

	Rate
Design Change Charge, per order	$ 27.00

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

(continued)

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.3 Access Order Charges (Cont'd)

4.3.1 Access Service Request Modifications (Cont'd)

(D) Expedited Order Charge

When placing an Access Service Request a customer may request a service date that is prior to the Telephone Company's published service date interval. If the Telephone Company determines that the service can be provided on the requested date, an Expedited Order Charge will apply. (C)

A customer may also request an earlier service date on a pending Access Service Request. If the customer's request can be accommodated, a Service Date Change Charge as described in Section 4.3.1(A) will apply in addition to the Expedited Order Charge.

If the Telephone Company is subsequently unable to meet an agreed upon expedited service date, the Expedited Order Charge will not apply.

In the event that the Telephone Company provides service on an expedited basis by customer request and the customer then delays service, an additional Service Date Change Charge as described in Section 4.3.1(A) will apply.

The Expedited Order Charge applies per order, based on the requested service date. A request to expedite service to be available the next day is a one day expedite, a request for service in two days is a two day expedite, and so on to a request for service a week from the request date is a seven day expedite. Expedited orders for same day service are not available. If the requested service date is at the published service date interval or later, no Expedited Order Charge will apply.

Rates for Expedited Order Charges are as follows:

One Day Expedite	$587.00
Two Day Expedite	538.00
Three Day Expedite	489.00
Four Day Expedite	440.00
Five Day Expedite	137.00
Six Day Expedite	103.00
Seven Day Expedite	68.00
Eight Day Expedite	68.00
Nine Day Expedite	68.00 (C)

(continued)

ARIZONA

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.3 Access Order Charges (Cont'd)

4.3.2 Cancellation of an Access Service Request

A customer may cancel an Access Service Request on any date after receipt of the Access Service Request by the Telephone Company and prior to the installation of service. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the Access Service Request order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. If written confirmation of the cancellation is not received by the Telephone Company, the verbal notice will not be considered a valid cancellation notice. When a customer cancels an Access Service Request for the discontinuance of service, no charges apply for the cancellation.

(A) Delay of Service Date by Customer

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 Service Request shall be cancelled and charges set forth in (C) 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 Service Request.

(B) Delay of Service Date by Telephone Company

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

(continued)

ARIZONA

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.3 Access Order Charges (Cont'd)

4.3.2 Cancellation of an Access Service Request (Cont'd)

(C) Cancellation Charge

When a customer cancels an Access Service Request and the Telephone Company incurs any costs associated with the processing of the Access Service Request or installation prior to the cancellation date, the Cancellation Charge will apply. The Cancellation Charge specified in (1) or (2) following, whichever is lower, shall apply.

(1) The charge for the minimum period of Switched or Special Access Service as set forth in 4.3.3 following.

(2) A charge equal to the costs incurred in such installation, less estimated net salvage, and/or a charge equal to the costs incurred in such order processing. These charges include the non-recoverable cost of installation and removal including the costs of engineering, labor, supervision, transportation, rights-of-way, and other associated costs.

Installation and Order costs of Switched or Special Access Service facilities are considered to have started when the Telephone incurs any costs associated with such installation or order processing.

(continued)

ACCESS SERVICE

4. Ordering Switched and Special Access Service (Cont'd)

4.3 Access Order Charges (Cont'd)

4.3.3 Minimum Period Charges

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

For purposes of applying minimum period charges, the disconnect date shall be two business days after the date the Telephone Company receives written notification from the customer or the date the customer requests service be disconnected, whichever is the later date.

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

For Switched Access Service, the charge for a month or fraction thereof is equal to the applicable minimum monthly charge for the capacity as set forth in Section 5 following. (T)

For Special Access Service, the charge for a month or fraction thereof is the applicable monthly rates for the service as set forth in 6.2.3 following.

The Minimum Period Charge for part-time Television and Program Audio Services is the applicable daily rate for the service as set forth in 6.2.3 following.

(continued)

ACCESS SERVICE

5. Switched Access Service

5.1 General

The Telephone Company adopts Section 6 of the Frontier Telephone Companies Tariff FCC No. 6 (the Telephone Company's Interstate Access Tariff) effective as of July 1, 2012, and any successive issues thereto. This tariff was filed with the FCC on behalf of the Telephone Company and affiliated companies.

This tariff includes all the rules, regulations, rates and charges under which interstate access services will be offered. Exceptions to this adoption of the tariff schedules, if any, are as follows:

5.2 Language Exceptions

(None)

5.3 Rate Exceptions

	Originating	Terminating*	
Prem Local Switching 1 (Bundled) – Non Toll Free	$0.05136100		(C)
Prem Local Switching 2 (Bundled) – Non Toll Free	$0.05136100		
N-Prem Local Switching (Bundled) – Non Toll Free	$0.02311200		
Prem Local Switching 1 (Unbundled) CKT SW LN – Non Toll Free	$0.05136100		
Prem Local Switching 2 (Unbundled) CKT SW LN – Non Toll Free	$0.05136100		
N-Prem Local Switching (Unbundled) CKT SW LN – Non Toll Free	$0.02311200		
Prem Local Switching 1 (Unbundled) CKT SW TRK – Non Toll Free	$0.05136100		
Prem Local Switching 2 (Unbundled) CKT SW TRK – Non Toll Free	$0.05136100		
N-Prem Local Switching (Unbundled) CKT SW TRK – Non Toll Free	$0.02311200		
Tandem Switched Transport Facility – Non Toll Free	$0.00104156		(C)

* See Frontier Telephone Companies Tariff FCC No. 6 for rates. (C)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

5. Reserved For Future Use (T)

(D)

(D)

(continued)

ACCESS SERVICE

6. Special Access Service

6.1 Provision of Special Access Service

Special Access Service provides a dedicated transmission path to connect customer designated premises*, either directly or through a Telephone Company hub where bridging or multiplexing functions are performed. Special Access Service may also be combined with Switched Access Services in the provision of a customer's intrastate communications service (WATS, 800 or WATS-type Services). Special Access Service includes all exchange access not utilizing Telephone Company central office switches.

Certain Special Access Services listed in this section of the tariff may not be currently offered in all Telephone Company locations but may be provided upon customer request, on an individual case basis, if facilities can be made available with reasonable effort. The Telephone Company will work cooperatively with the Customer to provide the service on a timely basis.

6.1.1 Circuit Types

There are seven types of circuits used to provide Special Access Services:

- Metallic (MT)
- Low Speed Data (LSD)
- Voice Grade (VG)
- Program Audio
- Video
- Wideband Analog (WA)
- Wideband Data (WD)
- Digital Data (DA)
- High Capacity (HC)

These circuits can be either analog or digital. Analog circuits are differentiated by frequency spectrum and bandwidth. Digital connections are differentiated by bit rate.

Note: Telephone Company Centrex CO-like switches are considered to be customer premises for purposes of this tariff.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.1 Provision of Special Access Service (Cont'd)

6.1.1 Circuit Types (Cont'd)

Each of the nine circuits has its own characteristics. All of the circuit types are subdivided by one or more of the following:

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

The circuit descriptions set forth in this section specify the characteristics of the basic circuit and indicates whether the circuit is provided between customer designated premises or between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed, or between a customer designated premises and a telephone company office capable of combining switched or special access services or a WATS serving office.

Customers can order a basic circuit and select from a list of available technical specifications packages (customized or predefined), channel interfaces, and optional features to design a circuit which meets the Customer's specific communications needs. For purposes of ordering circuits, each has been identified as a type of Special Access circuit. However, such identification is not intended to limit a customer's use of the circuit, nor to imply that a circuit is limited to a particular use.

The optional features and functions available with each type of basic circuit are included in the individual service description sections following. The optional features and functions information also indicates with which technical specifications packages they are available.

When a customized circuit is ordered, the Telephone Company may determine that Additional Engineering is required to meet the customer's request for service. The customer will be notified whether Additional Engineering charges apply and will be given an estimate of the hours to be billed before any further action is taken on the order. Additional engineering charges are determined as set forth in 7.1 following.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.1 Provision of Special Access Service (Cont'd)

6.1.2 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. A Voice Grade Special Access Circuit may be provided as a two-point service connecting an end user premise and a Telephone Company switch when Special Access is used in conjunction with Switched Access as set forth in Section 5 for Combined Access Service Arrangements. (T)

All types of Special Access Service may be provided as two-point service.

The following diagram depicts an example of a two-point Voice Grade service connecting two customer designated premises located 15 miles apart. The service is provided with the optional feature of C-Type conditioning.

CT - Circuit Termination
CM - Circuit Mileage
SWC - Serving Wire Center

Applicable rate elements are:

- Circuit Termination (2 applicable)
- Circuit Mileage (fixed rate plus rate per airline mile between SWC)
- C-Type Conditioning Optional Feature

In addition, charges for additional Optional Features and Functions may apply.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.1 Provision of Special Access Service (Cont'd)

6.1.2 Service Configurations (Cont'd)

(B) Multipoint Service

Multipoint service connects three or more customer designated premises through a Telephone Company hub (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the Service Descriptions for the appropriate circuit.

The circuit between hubs on a multipoint service is a mid-link. There is no limitation on the number of mid-links, but the use of more than three mid-links in tandem may degrade the quality of multi-point facilities.

Multipoint service utilizing a customized technical specifications package, as set forth in 6.1.3, will be provided when technically possible.

When ordering, the customer will specify the desired bridging hub(s). Section 14 of this tariff identifies serving wire centers, hub locations and the type of bridging functions available.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.1 Provision of Special Access Service (Cont'd)

6.1.2 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

The following diagram depicts an example of a Voice Grade multipoint service connecting four customer premises via two customer specified bridging hubs.

CT - Circuit Termination
CM - Circuit Mileage
B - Bridging
SWC - Serving Wire Center

Applicable rate elements are:

- Circuit Termination
- Circuit Mileage
- Bridging Optional Features

In addition, charges for other Optional Features and Functions may be applicable.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.1 Provision of Special Access Service (Cont'd)

6.1.3 Technical Specifications Packages

Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is included in each individual service description section in 6.3 through 6.11 following, in a matrix format with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service.

The letter "C" following the two letter code indicates the technical specifications package for a customized service. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

All services installed after the effective date of this tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service:

Metallic	PUB	62502
Low Speed Data	PUB	62502
Voice Grade	PUB	TR-NPL-000335
	PUB	41004, Table 4
Program Audio	PUB	62503 and associated Addendum
Video	PUB	62504 and associated Addendum
Wideband Analog	PUB	62505 and associated Addendum
Wideband Data	PUB	62506
Digital Data	PUB	62507
	PUB	62310
High Capacity	PUB	64508
		62411

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.1 Provision of Special Access Service (Cont'd)

6.1.3 Technical Specifications Packages (Cont'd)

The Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards listed in this provision will be maintained at those levels until disconnected and all new services will be maintained at the performance levels specified in this tariff.

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.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.1 Provision of Special Access Service (Cont'd)

6.1.4 Channel Interfaces

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 8. following, in a combination format.

Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in Section 5 preceding. When a customized circuit is requested, all channel interface combinations available with the specified type of service are available with the customized circuit. (T)

6.1.5 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 11, Specialized Service or Arrangements. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Circuit Terminations, Circuit Mileage [as applicable], and Optional Features and Functions [if any]).

6.1.6 Special Facilities Routing

A customer may request that the Special Access used be specially routed. The regulations, rates and charges for Special Facilities Routing are as set forth in Section 10 following.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.1 Provision of Special Access Service (Cont'd)

6.1.7 Design Layout Report

At the customer request, the Telephone Company will provide the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing its overall service. The information will be provided to the customer at no charge in the form of a Design Layout Report and will be reissued or updated whenever the described facilities are materially changed.

6.1.8 Acceptance Testing

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

(A) For Voice Grade analog services, acceptance testing will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise as applicable according to the order for service. Voice Grade services acceptance testing will also include a balance (improved loss) test if the customer has ordered that optional feature.

(B) For services other than Voice Grade, acceptance tests will include tests for the parameters applicable to the service as specified by the customer in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing and Nonscheduled Testing, as described in 7.4 following, are available at the customer's request. All test results will be made available to the customer upon request.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.2 Rate Categories, Applications, and Regulations

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

6.2.1 Rate Categories

The following rate categories apply to Special Access Service:

- Circuit Terminations
- Circuit Mileage
- Optional Features and Functions
- Nonrecurring Charges

These rate categories are described in Sections 6.2.1.(A) through (D) following.

(A) Circuit Termination

The Circuit Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Circuit Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in (C) following. One Circuit Termination charge applies per customer designated premises at which the circuit is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone Company building.

(B) Circuit Mileage

The Circuit Mileage rate category provides for the end office equipment and transmission facilities between serving wire centers and/or Telephone Company hubs. In addition, when Special Access is used in conjunction with Switched Access Service as set forth in Section 5 preceding for Combined Access Service Arrangements, and the end office serving the customer's end user premises is not capable of combining Switched and Special Access or is not a WATS Serving Office, Circuit Mileage is used to extend the Special Access Circuit to a WATS Serving Office or office capable of combining Switched and Special Access Services. The Circuit Mileage charge is composed of a flat monthly charge plus a rate per mile. (T)

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.2 Rate Categories, Applications, and Regulations (Cont'd)

6.2.1 Rate Categories (Cont'd)

(B) Circuit Mileage (Cont'd)

(1) Fixed Rate

The fixed rate component of Circuit Mileage is applied only once per Circuit Mileage facility and is also applied when two or more customer designated premises are served by a common serving wire center (i.e., mileage is zero). When Special Access is used in conjunction with Switched Access where the customer's end user premises for the Special Access facility is served by a Telephone Company office capable of combining Switching and Special Access Service, or a WATS Serving Office, the fixed rate does not apply.

(2) Per Mile Rate

The mileage to be used to determine the monthly rate for the per mile portion of Circuit Mileage is calculated on the airline distance 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, between two Telephone Company hubs, or between a Telephone Company end office and a WATS serving office, or Telephone Company office capable of combining Switched and Special Access Services. The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally receive dial tone. The information for mileage calculation and serving wire center V & H coordinates are specified in Section 14 of this tariff. Where the calculated miles include a fraction, the value is always rounded up the next full mile.

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

When more than one Telephone Company is involved in the provision of Special Access Service, the mileage for the per mile component of Circuit Mileage for each Telephone Company is calculated as set forth in 2.4.7 preceding.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.2 Rate Categories, Applications, and Regulations (Cont'd)

6.2.1 Rate Categories (Cont'd)

(C) Optional Features and Functions

Optional Features and Functions may be added to a basic circuit service to improve its quality or utility to meet the customer's specific communications requirements. These optional features and functions are identifiable with specific equipment, and 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 a single rate element.

Descriptions for each of the available Optional Features and Functions are set forth in Sections 6.3 through 6.11 following. Specific rate applications for multiplexing are set forth in 6.2.4 following.

(D) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for installation of Special Access Services, installation of optional features and functions, and moves and service rearrangements.

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are applied per Circuit Termination.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.2 Rate Categories, Applications, and Regulations (Cont'd)

6.2.1 Rate Categories (Cont'd)

(D) Nonrecurring Charge (Cont'd)

(2) Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.

The optional features for which installation charges apply are:

- Voice Grade Data Capability
- Voice Grade Telephoto Capability
- Program Audio Gain Conditioning
- Program Audio Stereo
- Wideband Data Transfer Arrangement

(3) Moves

A move involves a change in the physical location of either the customer's premises or a point of termination at the customer's premises. The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(a) Moves Within the Same Building

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

(b) Moves to a Different Building

Moves to a different building will be treated as a discontinuance and a 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. (T)

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.2 Rate Categories, Applications, and Regulations (Cont'd)

6.2.1 Rate Categories (Cont'd)

(D) Nonrecurring Charge (Cont'd)

(4) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, or that involve actual physical change to the service. Changes to pending orders are set forth in 4.3.1 preceding.

(a) A charge will not apply to administrative changes as follows:

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

(b) All other service rearrangements will be charged for as follows:

- If the change involves the addition of other customer designated premises to an existing multipoint service, the nonrecurring charge for the Circuit Termination rate element will apply. The charge(s) will apply only for the location(s) that is being added.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.2 Rate Categories, Applications, and Regulations (Cont'd)

6.2.1 Rate Categories (Cont'd)

(D) Nonrecurring Charge (Cont'd)

(4) Service Rearrangements (Cont'd)

- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.

- If the change involves changing the type of signaling on a Voice Grade service, a charge equal to the Voice Grade Circuit Termination rate element nonrecurring charge will apply. The charge will apply per service termination affected.

- For all other changes, including the addition of optional feature or function without a separate nonrecurring charge, a charge equal to a Circuit Termination rate element nonrecurring charge will apply. Only one such charge will apply per service, per change.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.2 Rate Categories, Applications, and Regulations (Cont'd)

6.2.2 Minimum Periods

The minimum service period for all services except part-time and occasional Video and Program Audio services is one month. The minimum service period for part-time Video and Program Audio 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.).

6.2.3 Application of Daily and Monthly Rates

(A) Daily Rates

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

Part-time Program Audio or Video Service ordered on one Access Service Request and provided within a consecutive 30 day period will be charged the daily rate, not to exceed an amount equal to the monthly rate. For each subsequent day or part day, a charge equal to 1/30th of the monthly rate shall apply.

(B) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.2 Rate Categories, Applications, and Regulations (Cont'd)

6.2.4 Facility Hubs and Multiplexing

A customer has the option of ordering Voice Grade facilities or High Capacity facilities (i.e., Group, Supergroup, Mastergroup, DS1, DS1C, DS2, DS3 or DS4) to a facility hub for multiplexing to individual services of a lower capacity or bandwidth (e.g., Telegraph, Voice, etc.). Additionally, the customer may specify optional features for the individual circuits derived from the facility to further tailor the circuit to meet specific communications requirements.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from digital to voice frequency circuits

A hub is a Telephone Company designated wire center at which multiplexing functions are performed.

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 Service Request the customer will specify the desired hub. Section 14 of this tariff identifies serving wire centers, hub locations and the type of multiplexing functions available.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.2 Rate Categories, Applications, and Regulations (Cont'd)

6.2.4 Facility Hubs and Multiplexing (Cont'd)

Point to point services may be provided on circuits of these facilities to a hub. The transmission performance for the point to point service provided between the customer designated premises will be that of the lower capacity or bit rate.

The Telephone Company will commence billing the monthly rate for the facility to the hub on the date specified by the customer on the Access Service Request. The customer will be billed for a High Capacity or Voice Grade Circuit Termination, Circuit Mileage and the multiplexer for the service at the time the facility is installed. Individual services utilizing these facilities may be installed coincident with the installation of the facility to the hub or may be ordered and/or installed at a later date, at the option of the customer. Individual service rates (by service type) will apply for a Circuit Termination and additional Circuit 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 circuit is de-multiplexed to provide circuits with a lesser capacity and one of the lesser capacity circuits is further demultiplexed. 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, Circuit Mileage charges also apply between the hubs.

Although not requiring multiplexing, the Telephone Company will designate certain hubs for Video and Program Audio Services. Full-time service will be provided between a customer designated premises and a hub and billed accordingly at the monthly rates set forth in 6.6.5 and 6.7.4 for a Circuit Termination, and Circuit Mileage and Optional Features and Functions as applicable. The customer may order part-time and occasional Program Audio or Video services as needed between the hub and a second customer designated premises. The rate elements required to provide the part-time or occasional service (i.e., Circuit Termination, and Circuit Mileage and Optional Features as applicable) will be billed at daily rates for the duration of the service requested.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.2 Rate Categories, Applications, and Regulations (Cont'd)

6.2.5 Shared Use Analog and Digital High Capacity Service

Shared use refers to a rate application applicable only when the customer orders High Capacity or Wideband Analog facilities between a customer designated premises and a Telephone Company hub where the Company performs multiplexing/demultiplexing functions and the same customer then orders the derived circuits as Special and Switched Access Services.

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

As each individual circuit is activated for Switched Access Service, the High Capacity or Wideband Analog Special Access Circuit Termination and Circuit Mileage rates will be reduced accordingly (e.g., 1/24th for a DS1 service, etc.). Switched Access Service rates and charges, as set forth in 5. preceding, will apply for each circuit of the shared use facility that is used to provide a Switched Access Service.

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

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.2 Rate Categories, Applications, and Regulations (Cont'd)

6.2.5 Shared Use Analog and Digital High Capacity Service (Cont'd)

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

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.3 Metallic Service

6.3.1 Basic Circuit Description

A Metallic circuit is an unconditioned two-wire circuit capable of transmitting low speed varying signals at rates up to 30 baud. Metallic circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per circuit.

6.3.2 Technical Specifications Packages

	Package MT-			
Parameter	C	1	2	3
DC Resistance Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X

The technical specifications are delineated in Technical Reference PUB 62502.

6.3.3 Channel Interfaces

Compatible channel interfaces are set forth in 8. following.

6.3.4 Optional Features and Functions

(A) Central Office Bridging Capability

(1) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer premises.

(2) Series Bridging of up to 26 customer premises. The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package MT-			
	C	1	2	3
Three Premises Bridging	X	X		X
Series Bridging	X		X	

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.3 Metallic Service (Cont'd)

6.3.5 Rates and Charges

		Monthly Rates	Nonrecurring Charge
(A)	Circuit Termination		
	- Per Point of Termination	$ 23.30	$ 298.74
(B)	Circuit Mileage		
	Fixed	8.84	-
	Per mile	2.80	-
(C)	Optional Features and Functions		
	(1) Bridging	Monthly Rates	Nonrecurring Charge
	(a) Three Premises Bridging		
	- Per Port	4.64	None
	(b) Series Bridging		
	- Per Port	4.64	None

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.4 Low Speed Data

6.4.1 Basic Service Description

A Low Speed Data circuit is an unconditioned circuit capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This circuit is furnished for half-duplex or duplex operation. Low Speed Data circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

6.4.2 Technical Specifications Packages

Parameter	Package TG-		
	C	1	2
Data Distortion	X	X	X

The technical specifications are delineated in Technical Reference PUB 62502.

6.4.3 Channel Interfaces

Compatible channel interfaces are set forth in 8. following.

6.4.4 Optional Features and Functions

(1) Data Bridging (two-wire and four-wire)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package TG-		
	C	1	2
Data Bridging	X	X	X

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.4 Low Speed Data (Cont'd)

6.4.5 Rates and Charges

		Monthly Rates	Nonrecurring Charges
(A)	Circuit Termination		
	- Per Point of Termination		
	- Two-wire	$ 23.30	$ 308.29
	- Four-wire	29.50	308.29
(B)	Circuit Mileage		
	Fixed	8.84	-
	Per mile	2.80	-
(C)	Optional Features and Functions		
		Monthly Rates	Nonrecurring Charges
	(1) Bridging		
	- Per Port		
	- Two-wire	4.64	None
	- Four-wire	4.64	None

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service

6.5.1 Basic Circuit Description

A Voice Grade Circuit is a circuit 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. Effective 2-wire and 4-wire circuits are available as an Optional Feature and Function. Voice Grade circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

Voice Grade Service may be ordered in conjunction with Switched Access services as set forth in Section 5 preceding to provide access for a customer's communication service; e.g., WATS, 800, or WATS-type service. When the customer orders the Combined Access Service Arrangement, Voice Grade Circuits provide voice frequency transmission capability between an end user premises and Telephone Company offices capable of combining Special and Switched Access services or between an end user premises and a WATS Serving Office (WSO). All applicable Special Access rates and charges apply (including Optional Features and Functions charges). Technical Specifications and Optional Features and Functions available with this arrangement are indicated under Package VG-CA in 6.5.2 and 6.5.5 following. (T)

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.2 Technical Specifications Packages

Parameter	Package VG													
	C[1]	1	2	3	4	5	6	7	8	9	10	11	12	CA
Attenuation Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control	X	X	X	X		X		X	X			X	X	X
Envelope Delay Distortion	X						X	X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X	X
Intermodulation Distortion	X						X	X	X	X	X	X		X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain Hits, and Dropouts	X													
Phase Jitter	X						X	X	X	X	X	X	X	X
Return Loss														X
Signal-to-C Message Noise					X									
Signal-to-C Notch Noise	X					X	X	X	X	X	X	X	X	X

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference TR-NPL-000335 and associated Addendum. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference PUB 41004, Table 4.

[1] The desired parameters are selected by the customer from the list of available parameters.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.3 Channel Interfaces

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

The following channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV, and SF.

Compatible channel interfaces are set forth in 9. following.

6.5.4 Optional Features and Functions

(A) Central Office Bridging Capability

(1) Voice Bridging (two-wire or four-wire)

(2) Data Bridging (two-wire or four-wire)

(3) Telephoto Bridging (two-wire and four-wire)

(4) Dataphone Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports (T)

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

(B) Central Office Multiplexing

Voice to Telegraph Grade: An arrangement that converts a Voice Grade circuit to Telegraph Grade circuits using frequency division multiplexing.

(C) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.

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

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.4 Optional Features and Functions (Cont'd)

(1) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are:

Attenuation Distortion (Frequency Response) Relative to 1004 Hz	
Frequency Range (Hz)	Variation (dB)
400-2800	-1.0 to +2.0
300-3000	-1.0 to +3.0
3000-3200	-2.0 to +6.0

Envelope Delay Distortion	
Frequency Range (Hz)	Variation (micro-seconds)
1000-2600	100
800-2600	200
600-2600	300
500-2800	600
500-3000	3000

(2) Sealing Current

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

(D) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. This level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference TR-NPL-000335.

(E) Improved Return Loss

(1) On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL-000335.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.4 Optional Features and Functions (Cont'd)

(E) Improved Return Loss (Cont'd)

(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-NPL-000335.

(F) Data Capability

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

The Signal to C-Notched Noise Ratio and intermodulation distortion parameter for Data Capability are:

- Signal to C-Notched Noise Ratio is greater than or equal to 32dB Intermodulation distortion
- Signal to second order modulation products (R2) is greater than or equal to 38dB
- Signal to third order modulation products (R3) is greater than or equal to 42 dB

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

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.4 Optional Features and Functions (Cont'd)

(G) Telephoto Capability

Telephoto Capability provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Capability is provided for the control of attenuation distortion and envelope delay distortion of telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Capability are:

Attenuation Distortion (1004Hz Reference)

Frequency Range (Hz)	Variation (dB)
500-3000	-0.5 to +1.5
300-3200	-1.0 to +2.5

Envelope Delay Distortion

Frequency Range (Hz)	Variation (mcs)
1000-2600	110
800-2800	180

(H) Signaling Capability

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service.

(I) Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service.

(J) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access circuits. The arrangement can be utilized to transfer a leg of a Special Access Service to another circuit that terminates in either the same or a different customer premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare circuit, if required, is not included as part of the option.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.4 Optional Features and Functions (Cont'd)

(K) Four-Wire/Two-Wire Conversions

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.

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.

When a customer requests that an effective four-wire circuit be terminated with a two-wire circuit interface at the customer designated premises, a four-wire to two-wire conversion is required. The customer will be charged the 4-wire Circuit Termination rate when an effective four-wire is specified in the customer's order. The rate for the conversion is included as part of the basic Circuit Termination rate.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.4 Optional Features and Functions (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package VG-													
	C	1	2	3	4	5	6	7	8	9	10	11	12	CA
C-Type Conditioning	X					X	X	X	X	X	X			
Central Office Bridging Capability	X		X			X	X			X	X	X		
Central Office Multiplexing	X						X							
Customer Specified Premises Receive Level	X		X	X				X	X	X				
Data Capability	X						X	X			X			
Improved Return Loss														
- For Effective Four-Wire Transmission	X	X	X	X	X	X	X	X	X	X	X	X	X	X
- or Effective Two-Wire Transmission	X		X	X				X						X
Sealing Current Conditioning	X						X							
Selective Signaling Arrangement	X		X			X	X				X	X	X	
Signaling Capability	X	X	X	X				X	X	X				X
Transfer Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X	

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.5 Rates and Charges

		Monthly Rates	Nonrecurring Charge
(A)	Circuit Termination		
	- Per Point of Termination		
	- Two-wire	$ 23.30	$ 121.50
	- Four-wire	29.50	121.50
(B)	Circuit Mileage		
	Fixed		
	Two/Four-wire	8.84	-
	Per mile		
	Two/Four-wire	2.80	-

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.5 Rates and Charges (Cont'd)

(C) Optional Features and Functions

Rates and charges for the Optional Features and Functions of Voice Grade Service listed in this section apply to all jurisdictions.

	Monthly Rates	Nonrecurring Charge
(1) Bridging		
(a) Voice Bridging		
- Per port		
- Two-Wire	$ 4.64	None
- Four-Wire	4.64	None
(b) Data Bridging		
- Per Port		
- Two-Wire	4.64	None
- Four-Wire	4.64	None
(c) Telephoto Bridging		
- Per port		
- Two-Wire	4.64	None
- Four-Wire	4.64	None
(d) DATAPHONE Select-A-Station Bridging		
Sequential Arrangement Ports		
- Per Circuit Connected		
- 2-Wire	21.23	None
- 4-Wire	112.80	None
Addressable Arrangement Ports		(T)
- Per Circuit Connected		
- 2-Wire	22.76	None
- 4-Wire	115.88	None

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.5 Rates and Charges (Cont'd)

		Monthly Rates	Nonrecurring Charge
(C)	Optional Features and Functions (Cont'd)		
	(1) Bridging (Cont'd)		
	(e) Telemetry and Alarm Bridging		
	Active Bridging		
	Circuit Connections		
	- Per Circuit Connected		
	- Split Band	$ 8.04	None
	- Summation	1.37	None
	Passive Bridging		
	Circuit Connections		
	- Per Circuit Connected	0.20	None
	(2) Conditioning		
	- Per Point of Termination		
	- C - Type	11.12	None
	- Sealing Current	None	None
	(3) Improved Return Loss for Effective Four-Wire Transmission		
	- Per Point of Termination		
	- Two-Wire	16.07	None
	- Four-Wire	16.07	None
	(4) Customer Specified Receive Level		
	- Per Two-Wire Point of Termination	None	None

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.5 Rates and Charges (Cont'd)

		Monthly Rates	Nonrecurring Charge
(C)	Optional Features and Functions (Cont'd)		
(5)	Multiplexing		
	Voice to Telegraph Grade		
	- Per Arrangement	$ 216.75	$ 196.40
(6)	Data Capability		
	- Per Point of Termination		None
	- Two-wire	34.00	
	- Four-wire	27.80	
(7)	Telephoto Capability		
	- Per Point of Termination	2.81	119.37
(8)	Signaling Capability		
	- Per Point of Termination	16.51	None

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.5 Voice Grade Service (Cont'd)

6.5.5 Rates and Charges (Cont'd)

		Monthly Rates	Nonrecurring Charge
(C)	Optional Features and Functions (Cont'd)		
	(9) Selective Signaling Arrangement		
	- Per Arrangement	$ 14.05	None
	(10) Transfer Arrangement (Key Activated [1] or Dial Up [2])		
	- Per Four Point Arrangement, including control circuit termination [3]	3.00	None
	- Per Five Port Arrangement, including control circuit termination [3]	6.85	None

[1] The key activated control circuit is rated as a Metallic Circuit Termination and Circuit Mileage, if applicable.

[2] The Dial-up option requires the customer to purchase the Controller Arrangement from 12.3.8 following.

[3] An additional Circuit Termination charge will apply whenever a spare circuit is configured as a leg to the customer's premises. Additional circuit mileage charges will apply when the transfer arrangement is not located in the customer premises serving wire center

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.6 Program Audio Service

6.6.1 Basic Circuit Description

A Program Audio circuit is a circuit 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. The nominal frequency bandwidths are from 50 to 15000 Hz, from 200 to 3500 Hz, from 100 to 5000 Hz or from 50 to 8000 Hz. Only one-way transmission is provided. Program Audio circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

6.6.2 Technical Specifications Packages

	Package AP-				
Parameter	C[1]	1	2	3	4
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking	X				
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
Phase Tracking	X				
Short-Term Gain Stability	X				
Short-Term Loss	X				
Total Distortion	X	X	X	X	X

The technical specifications are delineated in Technical Reference PUB 62503 and associated Addendum.

[1] The desired parameters are selected by the customer from the list available parameters.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.6 Program Audio Service (Cont'd)

6.6.3 Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Program Audio circuit:

CI	Bandwidth
PG-1	Nominal frequency from 50 to 15000 Hz
PG-3	Nominal frequency from 200 to 3500 Hz
PG-5	Nominal frequency from 100 to 5000 Hz
PG-8	Nominal frequency from 50 to 8000 Hz

Compatible channel interfaces are set forth in 8 following.

6.6.4 Optional Features and Functions

(1) Central Office Bridging Capability
Distribution Amplifier

(2) Gain Conditioning
Control of 1004 Hz AML at initiation of service to OdB ± 0.5 dB.

(3) Stereo
Provision of a pair of gain/phase equalized channels for stereo applications. (Additional AP channel must be ordered separately.)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package AP-				
	C	1	2	3	4
Central Office Bridging Capability	X	X	X	X	X
Gain Conditioning	X	X	X	X	X
Stereo	X	X			

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.6 Program Audio Service (Cont'd)

6.6.5 Rates and Charges

		Monthly Rates	Nonrecurring Charge
(A)	Circuit Termination		
	- Per Point of Termination		
	- 200 to 3500 Hz	Rates and charges as shown in Frontier Communications of the Southwest, Inc., Interstate Tariff	
	- 100 to 5000 Hz		
	- 50 to 8000 Hz		
	- 50 to 15000 Hz		
	- 200 to 3500 Hz		
	- 100 to 5000 Hz		
	- 50 to 8000 Hz		
	- 50 to 15000 Hz		

Daily Rates will be topped and maximum rates derived as set forth in 6.2.3(A) preceding.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.6 Program Audio Service (Cont'd)

6.6.5 Rates and Charges (Cont'd)

		Monthly Rates
(B)	Circuit Mileage	
	Fixed	
	- 200 to 3500 Hz	Rates and charges as shown in Frontier Communications of the Southwest, Inc., Interstate Tariff
	- 100 to 5000 Hz	
	- 50 to 8000 Hz	
	- 50 to 15000 Hz	
	Per mile	
	- 200 to 3500 Hz	
	- 100 to 5000 Hz	
	- 50 to 8000 Hz	
	- 50 to 15000 Hz	

		Daily Rates [1]
	Circuit Mileage	
	Fixed	
	- 200 to 3500 Hz	
	- 100 to 5000 Hz	
	- 50 to 8000 Hz	
	- 50 to 15000 Hz	

[1] Daily Rates will be topped and maximum rates derived as set forth in 6.2.3(A) preceding.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.6 Program Audio Service (Cont'd)

6.6.5 Rates and Charges (Cont'd)

		Daily Rates [1]
(B)	Per mile	
	- 200 to 3500 Hz	Rates and charges as shown in Frontier Communications of the Southwest, Inc., Interstate Tariff
	- 100 to 5000 Hz	
	- 50 to 8000 Hz	
	- 50 to 15000 Hz	

(C) Optional Features and Functions

Rates and charges for the Optional Features and Functions of Program Audio Service listed in this section apply to all jurisdictions.

	Monthly Rates	Daily [1] Rates
- Bridging, Distribution Amplifier		
- Per Port	Rates and charges as shown in Frontier Communications of the Southwest, Inc., Interstate Tariff	
- Gain Conditioning		
- Per Service	Rates and charges as shown in Frontier Communications of the Southwest, Inc., Interstate Tariff	
- Stereo		
- Per service	None	None

[1] Daily Rates will be topped and maximum rates derived as set forth in 6.2.3(A) preceding.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.7 Video Service

6.7.1 Basic Circuit Description

A Video circuit is a circuit with one-way transmission capability for a standard 525 line/60 field monochrome, or National Television Systems Committee color video signal and one or two associated 5 or 15 kHz audio signal(s). The bandwidth for a video circuit is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz. The associated audio signal(s) may be either duplexed or provided as one or two separate circuits. The provision and the bandwidth of the associated audio signal(s) is a function of the channel interface selected by the customer. Video circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

6.7.2 Technical Specifications Packages

	Package TV-		
Parameter	C [1]	1	2
Amplitude vs. Frequency Response	X		
Chrominance/Luminance Inequalities			
Gain	X	X	X
Delay	X	X	X
Chrominance/Luminance Intermodulation	X		
Chrominance Nonlinear Gain	X		
Chrominance Nonlinear Phase	X		
Crosstalk	X		X
Differential Gain	X	X	X
Differential Phase	X	X	X
Dynamic Gain (picture and sync signal)	X		
Field-Time Distortion	X	X	X
Gain/Frequency Distortion	X	X	X
Gain Stability	X	X	X
Insertion Gain	X	X	X
Line-Time Distortion	X	X	X
Long-Time Distortion	X	X	X

[1] The desired parameters are selected by the customer from the list of available parameters.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.7 Video Service (Cont'd)

6.7.2 Technical Specifications Packages (Cont'd)

Parameter	Package TV-C [1]	Package TV-1	Package TV-2
Luminance Nonlinearity	X		
Luminance Signal/CCIR Weighted Noise	X	X	X
Short-Time Distortion			
2 T Pulse	X	X	X
T - Bar Ringing	X	X	X
Signal/15 kHz Flat Weighted Noise	X	X	X
Signal/Low Frequency Noise	X		
Stereo Gain Difference	X	X	
Stereo Phase Difference	X	X	
Total Harmonic Distortion	X	X	X
Transient Sync Signal Non-Linearity	X		
Video/Audio Delay Difference	X		

The technical specifications are delineated in Technical Reference PUB 62504 and associated Addendum.

6.7.3 Channel Interfaces

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

CI	Audio Bandwidth	Provision
2TV6-1	15kHz	1 Channel, duplexed
2TV6-2	15kHz	2 Channels, duplexed
2TV7-1	15kHz	1 Channel, duplexed

[1] The desired parameters are selected by the customer from the list of available parameters.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.7 Video Service (Cont'd)

6.7.3 Channel Interfaces (Cont'd)

CI	Audio Bandwidth	Provision
2TV7-2	15kHz	2 Channels, duplexed
4TV6-5	5kHz	1 Channel, separate
4TV6-15	15kHz	1 Channel, separate
4TV7-5	5kHz	1 Channel, separate
4TV7-15	15kHz	1 Channel, separate
6TV6-5	5kHz	2 Channels, separate
6TV6-15	15kHz	2 Channels, separate
6TV7-5	5kHz	2 Channels, separate
6TV7-15	15kHz	2 Channels, separate

Compatible channel interfaces are set forth in 8. following.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.7 Video Service (Cont'd)

6.7.4 Rates and Charges

(A) Circuit Termination
- Per Point of Termination

Monthly Rates and Nonrecurring Charges for all jurisdictions will be determined on an Individual Case Basis and filed in Section 6.12 following.

Available frequency bandwidths are as follows:

Frequency Bandwidths

- TV - 1 or 2
- 4TV - 5
- 6TV - 5
- TV - 15

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.7 Video Service (Cont'd)

6.7.4 Rates and Charges (Cont'd)

(B) Circuit Mileage

Fixed and Per Mile Monthly Rates for all jurisdictions will be determined on an Individual Case Basis and filed in Section 6.12 following.

Available mileage bands formats are as follows:

Mileage Bands

	0		
Over	0	to	4
Over	4	to	8
Over	8	to	25
Over	25	to	50
Over	50		

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.8 Wideband Analog Service

6.8.1 Basic Circuit Description

A Wideband Analog circuit is a circuit with a bandwidth measured in kHz for the transmission of a wideband signal. The actual bandwidth is a function of the channel interface selected by the customer. The bandwidths are from 60 to 108 kHz (Group), from 312 to 552 kHz (Supergroup), from 564 to 3084 kHz (Mastergroup), from 300 Hz to 18 kHz, from 29 to 44 kHz or from 28 to 44 kHz. Wideband Analog circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

6.8.2 Technical Specifications Packages

	Package WA-				
Parameter	1	2	2A	3	4
Amplitude Stability	X	X			
Background Noise	X	X	X	X	X
Frequency Shift	X	X	X		
Gain/Frequency Characteristics of:					
- Group Connections	X			X	X
- Supergroup Connections		X			
- Mastergroup Connections			X		
Impulse Noise	X	X	X		
Net Loss Variations	X	X	X	X	X
Pilot Slot	X	X	X		
Spurious Single Frequency Tone	X	X	X		

The technical specifications are delineated in Technical Reference PUB 62505 and associated Addendum.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.8 Wideband Analog Service (Cont'd)

6.8.3 Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Wideband Analog channel:

CI	Bandwidth
AH-B	60 kHz to 108 kHz (Group)
AH-C	312 kHz to 552 (Supergroup)
AD-D	564 kHZ to 3084 kHz (Mastergroup)
WD-1	300 Hz to 18 kHz
WD-2	29 kHz to 44 kHz
WD-3	28 kHz to 44 kHz

Compatible channel interfaces are set forth in 9. following.

6.8.4 Optional Features and Functions

(A) Central Office Multiplexing

(1) Mastergroup to Supergroup

An arrangement that converts a Mastergroup circuit to ten Supergroup circuits using frequency division multiplexing.

(2) Supergroup to Group

An arrangement that converts a Supergroup circuit to five Group circuits using frequency division multiplexing.

(3) Group to Voice

An arrangement that converts a Group circuit to twelve Voice Grade circuits using frequency division multiplexing.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.8 Wideband Analog Service (Cont'd)

6.8.4 Optional Features and Functions (Cont'd)

(A) Central Office Multiplexing (Cont'd)

(4) Group to DS1

An arrangement that converts two Group circuit to DS1 circuit using analog to digital conversion.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package WA-				
	1	2	2A	3	4
Central Office Multiplexing:					
Mastergroup to Supergroup			X		
Supergroup to Group		X			
Group to Voice	X				
Group to DS1*					

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.8 Wideband Analog Service (Cont'd)

6.8.5 Rates and Charges

(A) Circuit Termination
- Per Point of Termination

Monthly Rates and Nonrecurring Charges for all jurisdictions will be determined on an Individual Case Basis and filed in Section 6.12 following.

Available frequency bandwidths are as follows:

Frequency Bandwidths

60 kHz - 108 kHz
312 kHz - 552 kHz
564 kHz - 3084 kHz
300 Hz - 18 kHz
29 kHz - 44 kHz

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.8 Wideband Analog Service (Cont'd)

6.8.5 Rates and Charges (Cont'd)

(B) Circuit Mileage

Fixed and Per Mile Monthly Rates for all jurisdictions will be determined on an Individual Case Basis and filed in Section 6.12 following.

Available frequency bandwidths are as follows:

Frequency Bandwidths
60 kHz - 108 kHz
312 kHz - 552 kHz
564 kHz - 3084 kHz
300 Hz - 18 kHz
29 kHz - 44 kHz

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.8 Wideband Analog Service (Cont'd)

6.8.5 Rates and Charges (Cont'd)

(C) Optional Features and Functions

(1) Multiplexing

Monthly Rates for all jurisdictions will be determined on an Individual Case Basis and filed in Section 6.12 following.

Available multiplexing arrangements are as follows:

Multiplexing Arrangement
Mastergroup to Supergroup
Supergroup to Group
Group to Voice
Group to DS1[1]

[1] Requires two 60-108 kHz Circuit Terminations and Circuit Mileage, one 1.544 Mbps Circuit Mileage and either a 1.544 Circuit Termination or a DS1 to Voice Multiplexing optional feature, depending on whether the service terminates at a customers premises or was purchased as a facility, to a Telephone Company hub for multiplexing to Voice Grade.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.9 Wideband Data Service

6.9.1 Basic Circuit Description

A Wideband Data circuit is an analog circuit for the transmission of synchronous serial data at the rate of 19.2, 50.0, or 230.4 kbps or of asynchronous serial data at rates of up to 19.2, 50.0, or 230.4 kbps. Optional arrangements are available for transmission of synchronous serial data at 18.75 or 40.8 kbps. The actual bit rate is a function of the channel interface selected by the customer. This service requires a 303 Data Station(s). The 303 Data Station provides coupling between the customers business machine and the wideband data transmission medium. A voice band coordinating channel is also provided. Wideband Data circuits are provided between customer designated premises.

6.9.2 Technical Specifications Packages

	Package WD		
Parameter	1	2	3
Error-Free Seconds	X	X	X

While in service, the monthly average of error-free seconds will be equal to or greater than 98.75%.

6.9.3 Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a Wideband Data circuit:

CI	Bit Rate
WB-18S	18.75 kbps, synchronous
WB-19A	up to 19.2 kbps, asynchronous
WB-19S	19.2 kbps, synchronous
WB-23A	up to 230.4 kbps, asynchronous
WB-23S	230.4 kbps, synchronous
WB-40S	40.8 kbps, synchronous
WB-50A	up to 50.0 kbps, asynchronous
WB-50S	50.0 kbps, synchronous

Compatible channel interfaces are set forth in 8. following.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.9 Wideband Data Service (Cont'd)

6.9.4 Optional Features and Functions

(A) Key Activated Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access circuit(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working circuit that terminates in either the same or a different customer premises. A key activated control service is required to operate the transfer arrangement. A spare circuit, if required, is not included as a part of the option.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Specifications Package WD-		
	1	2	3
Key Activated Transfer Arrangement	X	X	X

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.9 Wideband Data Service (Cont'd)

6.9.5 Rates and Charges

(A) Circuit Termination
- Per Point of Termination

	Monthly Rate	Nonrecurring Charge
50.0 or 40.8 Kbps	$ 473.28	$ 501.52

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.9 Wideband Data Service (Cont'd)

6.9.5 Rates and Charges (Cont'd)

(A) Circuit Termination (Cont'd)

For data speeds other than 40.8 and 50.0 kbps:

Monthly Rates for the Circuit Termination rate element of Wideband Data Service for all jurisdictions will be determined on an Individual Case Basis and filed in Section 6.12 following.

Available data speeds are as follows:

Data Speed
18.75 kbps
19.2 kbps
230.4 kbps

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.9 Wideband Data Service (Cont'd)

6.9.5 Rates and Charges (Cont'd)

(B) Circuit Mileage

	Monthly Rates
50.0 or 40.8 kbps	
Fixed	$ 11.49
Per Mile	42.90

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.9 Wideband Data Service (Cont'd)

6.9.5 Rates and Charges (Cont'd)

(B) Circuit Mileage (Cont'd)

For data speeds other than 40.8 and 50.0 kbps:

Fixed and Per Mile Monthly Rates for the Circuit Mileage rate element of Wideband Data Service for all jurisdictions will be determined on an Individual Case Basis and filed in Section 6.12 following.

Available data speeds are as follows:

Data Speed
18.75 kbps
19.2 kbps
230.4 kbps

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.9 Wideband Data Service (Cont'd)

6.9.5 Rates and Charges (Cont'd)

(C) Optional Features and Functions

Monthly Rates and Nonrecurring Charges for all jurisdictions will be determined on an Individual Case Basis and filed in Section 6.12 following.

Available Optional Features and Functions are as follows.

Optional Features
and Functions

Key Activated Transfer Arrangement
- Per Four Port Arrangement,
including control circuit termination [1]

(D) 303 Data Station

Monthly Rates and Nonrecurring Charges for all jurisdictions will be determined on an Individual Case Basis and filed in Section 6.12 following.

303 Data Station
- Per Point of Termination

[1] The key activated control circuit is rated as a Metallic Circuit Termination and Circuit Mileage, if applicable.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.10 Digital Data Service

6.10.1 Basic Circuit Description

A Digital Data circuit is a circuit for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6 or 56 Kbps. The actual bit rate is a function of the channel interface selected by the customer. The circuit 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 circuits are only available via Telephone Company designated hubs and are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data circuit at the customer premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

6.10.2 Technical Specifications Packages

	Package DA			
Parameter	1	2	3	4
Error-Free Seconds	X	X	X	X

The Telephone Company will provide a circuit capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds while the circuit is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference PUB 62507.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.10 Digital Data Service (Cont'd)

6.10.3 Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a Digital Data circuit.

CI	Bit Rate
DU-24	2.4 Kbps
DU-48	4.8 Kbps
DU-96	9.6 Kbps
DU-56	56.0 Kbps

Compatible channel interfaces are set forth in 8. following.

6.10.4 Optional Features and Functions

(A) Central Office Bridging Capability

(B) Transfer Arrangement

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

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.10 Digital Data Service (Cont'd)

6.10.5 Rates and Charges

		Monthly Rates	Nonrecurring Charge
(A)	Circuit Termination		
	- Per Point of Termination		
	- 2.4 kbps	$ 52.10	$ 485.43
	- 4.8 kbps	52.10	485.43
	- 9.6 kbps	52.10	485.43
	- 56.0 kpbs	56.45	501.52
(B)	Circuit Mileage		
	Fixed		
	- 2.4 kbps	8.84	-
	- 4.8 kbps	8.84	-
	- 9.6 kbps	8.84	-
	- 56.0 kbps	17.68	-
	Per mile		
	- 2.4 kbps	2.60	-
	- 4.8 kbps	2.60	-
	- 9.6 kbps	2.60	-
	- 56.0 kbps	5.20	-

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.10 Digital Data Service (Cont'd)

6.10.5 Rates and Charges (Cont'd)

(C) Optional Features and Functions

Monthly Rates and Nonrecurring Charges for the Optional Features and Functions of Digital Data Service listed in this section apply to all jurisdictions.

Optional Features and Functions	Monthly Rates	Nonrecurring Charges
(1) Bridging		
- Per Port	$ 23.77	None
(2) Loop Transfer Arrangement (Key Activated [1] or Dial-Up [2])		
- Per Four-Port Arrangement [3]	5.96	None

1 The key activated control is rated as a Metallic Circuit Termination and Circuit Mileage, if applicable.
2 The Dial-Up option requires the customer to purchase the Controller Arrangement from 7.6(A) following.
3 An additional Circuit Termination charge will apply whenever a spare circuit is configured as a leg to the customer's premises. Additional Circuit Mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.10 Digital Data Service (Cont'd)

6.10.5 Rates and Charges (Cont'd)

6.10.5 Rates and Charges (Cont'd)

(D) Channel Service Unit

Monthly Rates and Nonrecurring Charges for the Channel Service Unit [1] of Digital Data Service listed in this section apply to all jurisdictions.

	Monthly Rate	Nonrecurring Charge
Channel Service Limit [1]		
- Per Point of Termination where provided		
- 2.4 Kbps	$ 16.41	None
- 4.8 Kbps	17.54	None
- 9.6 Kbps	18.40	None
- 56.0 Kbps	19.17	None

[1] Channel Service Units will only be provided under tariff if they existed in the Telephone Company's inventory as of November 18, 1983.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.11 High Capacity Service

6.11.1 Basic Circuit Description

A High Capacity circuit is a circuit for the transmission of nominal 64.0 kbps [1] or 1.544, 3.152, 6.312, 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 circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity circuit at the customer's premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

6.11.2 Technical Specifications Packages

	Package HC					
Parameter	0	1	1C	2	3	4
Error-Free Seconds		X				

A circuit 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.

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

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.11 High Capacity Service (Cont'd)

6.11.3 Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a High Capacity circuit:

CI	Bit Rate
DS-15 [1]	1.544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DSIC)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

Compatible channel interfaces are set forth in 9.3.5 following.

6.11.4 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 circuit line when a working line fails. The spare circuit is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer premises. The customer is responsible for providing the equipment at its premises. Equipment at the customer premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

(B) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access circuit(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working circuit that terminates in either the same or a different customer designated premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare circuit, if required, is not included as part of the option.

[1] A 64.0 kbps circuit is available as a circuit(s) of a 1.544 Mbps facility to a Telephone Company hub.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.11 High Capacity Service (Cont'd)

6.11.4 Optional Features and Functions (Cont'd)

(C) Central Office Multiplexing

(1) DS4 to DS1

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

(2) DS3 to DS1

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

(3) DS2 to DS1

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

(4) DS1C to DS1

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

(5) DS1 to Voice

An arrangement that converts a 1.544 Mbps circuit to 24 circuits for use with Voice Grade Services. A circuit at 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 circuit to 23 64.0 kbps circuits utilizing digital time division multiplexing.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.11 High Capacity Service (Cont'd)

6.11.4 Optional Features and Functions (Cont'd)

(C) Central Office Multiplexing (Cont'd)

(7) DSO to Subrate

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

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package HC-					
	0	1	1C	2	3	4
Automatic Loop Transfer		X				
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DS0		X				
DS0 to Subrate [1]	X					
Transfer Arrangement		X				

[1] Available only on a circuit of a 1.544 Mbps facility to a Telephone Company hub.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.11 High Capacity Service (Cont'd)

6.11.5 Rates and Charges

		Monthly Rates	Nonrecurring Charge
(A)	Circuit Termination		
	- Per Point of Termination		
	1.544 Mbps	$ 209.73	$ 2,146.13

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.11 High Capacity Service (Cont'd)

6.11.5 Rates and Charges (Cont'd)

(A) Circuit Termination (Cont'd)
- Per Point of Termination

Frequency bandwidths other than 1.544 mbps:

Monthly Rates and Nonrecurring Charges for the Circuit Termination rate element of High Capacity Service for all jurisdictions will be determined on an Individual Case Basis and filed in Section 6.12 following.

Available frequency bandwidths for years 1-1-88 to 1-1-90 are as follows:

Frequency Bandwidths
64 Kbps
3.152 Mbps
6.312 Mbps
44.736 Mbps
274.176 Mbps

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.11 High Capacity Service (Cont'd)

6.11.5 Rates and Charges (Cont'd)

		Monthly Rates
(B)	Circuit Mileage 1.544 Mbps	
	Fixed	$ 51.70
	Per mile	42.90

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.11 High Capacity Service (Cont'd)

6.11.5 Rates and Charges (Cont'd)

(B) Circuit Mileage (Cont'd)

For frequency bandwidths other than 1.544 Mbps:

Fixed and Per Mile Monthly Rates for the Circuit Mileage rate element of High Capacity Service for all jurisdictions will be determined on an Individual Case Basis.

Available frequency bandwidths and USOC formats for years 1-1-88 to 1-1-90 are as follows:

Frequency Bandwidths	
64	Kbps
3.152	Mbps
6.312	Mbps
44.736	Mbps
274.176	Mbps

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.11 High Capacity Service (Cont'd)

6.11.5 Rates and Charges (Cont'd)

(C) Optional Features and Functions

Rates and charges for the Optional Features and Functions of High Capacity Service listed in this section apply to all jurisdictions.

	Monthly Rates	Installation Charges
(1) Multiplexing		
DS4 to DS1		
- Per arrangement	ICB	None
DS3 to DS1		
- Per arrangement	ICB	None
DS2 to DS1		
- Per arrangement	ICB	None
DS1C to DS1		
- Per arrangement	ICB	None
DS1 to Voice [1]		
- Per arrangement	$ 195.79	$ 351.85
DS1 TO DSO		
- Per arrangement	551.32	None
DSO to Subrates		
- Per arrangement		
Up to 20 2.4 kpbs services	450.88	None
Up to 10 4.8 kbps services	232.39	155.29
Up to 5 9.6 kbps services	161.56	294.36

[1] A circuit of this DS1 to the hub can be used for Digital Data service. ICB rates and charges are filed in 6.12 following.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.11 High Capacity Service (Cont'd)

6.11.5 Rates and Charges (Cont'd)

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

		Monthly Rates	Installation Charges
(2)	Automatic Loop Transfer		
-	Per arrangement [1]	$ 388.30	None
(3)	Transfer Arrangement (key activated [2] or dial up [3])		
-	Per four port arrangement, including control channel termination [4])	165.00	None
(D)	Network Channel Terminating Equipment (NCTE) [5]		
-	Per Point of termination where provided		
-	1.544 Mbps	84.71	None
-	Automatic Loop Transfer	894.01	None

[1] An additional Circuit Termination charge will apply whenever the spare line is provided as a let to the customer premises.
[2] The key activated control circuit is rated as a Metallic Circuit Termination.
[3] The Dial-up option requires the customer to purchase the Controller Arrangement from 7.7 following.
[4] An additional Circuit Termination charge will apply whenever a spare circuit is configured as a let to the customer's premises. Additional circuit mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.
[5] NCTE will only be provided under tariff if it existed in the Telephone Company's inventory as of November 18, 1983.

(continued)

ACCESS SERVICE

6. Special Access Service (Cont'd)

6.12 Individual Case Filing

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

(continued)

ACCESS SERVICE

7. Miscellaneous Services

In this section normally scheduled working hours are an employee's scheduled work period in any given calendar day (e.g., 7:00 a.m. to 4:00 p.m.) for the application of rates based on working hours. Basic Time is that time during normally scheduled working hours. Overtime is that time outside of normally scheduled working hours. Premium Time is that time outside of normally scheduled working days.

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. Work subject to Premium Time is always subject to a minimum charge of four hours.

7.1 Additional Engineering

Additional Engineering will be provided by the Telephone Company at the request of the customer or when the Telephone Company determines that Additional Engineering is necessary to accommodate a customer's request. (T)

Additional Engineering is provided when:

(A) A customer requests additional technical information beyond that normally included by the Telephone Company on the Design Layout Report (DLR) as set forth in 6.4(F) and 6.1.7.

(B) Additional engineering time is incurred by the Telephone Company to engineer a customer's specific written request for a customized service or additional engineering activities which are not normally performed in the provision of services under this tariff.

The Telephone Company will notify the customer that Additional Engineering charges, as set forth in 7.1.1 following, will apply before any additional engineering is undertaken. 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%.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.1 Additional Engineering (Cont'd)

7.1.1 Charges for Additional Engineering

The charges for Additional Engineering are as follows:

Per Engineer, Per Hour, or Fraction Thereof		
Basic Time	Overtime	Premium Time
$ 45.80	$ 68.70	$ 91.60

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.2 Additional Labor

Additional labor is that labor requested and authorized by the customer on a given service and agreed to by the Telephone Company as set forth in 7.2.1 through 7.2.5 following. The Telephone Company will notify the customer that additional labor charges as set forth in 7.2.6 following will apply before any additional labor is undertaken.

7.2.1 Overtime Installation

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

7.2.2 Overtime Repair

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

7.2.3 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 on a given service.

7.2.4 Maintenance with Other Telephone Companies

Additional labor charges apply to additional maintenance or repair of facilities which connect to facilities of other telephone companies. This is in addition to the normal efforts required to maintain or repair facilities provided solely by the Telephone Company, as set forth in 2.1.1(C).

7.2.5 Other Labor

Other labor is that additional labor not included in 7.2.1 through 7.2.4 preceding. This includes labor incurred to accommodate a specified customer request that involves only labor which is not covered by any other section of this tariff.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.2 Additional Labor (Cont'd)

7.2.6 Charges for Additional Labor

The charges for additional labor are as follows:

Per Technician, Per Hour, or Fraction Thereof		
Basic Time	Overtime [1]	Premium Time [1]
$ 39.12	$ 58.68	$ 78.24

[1] 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.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.3 Maintenance of Service

(A) The customer will be responsible for reporting troubles sectionalized to Telephone Company facilities and/or equipment. When trouble cannot be clearly sectionalized to the Telephone Company facilities and/or equipment, the Telephone Company will test cooperatively or independently to assist in trouble sectionalization.

When a customer reports a trouble to the Telephone Company for clearance and no trouble is found in the Telephone Company's facilities, the customer shall be responsible for payment of a Maintenance of Service charge for the period of time from when Telephone Company personnel are dispatched to the customer's or customer's end user 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's 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.

(C) The charge for Maintenance of Service are as follows:

Maintenance of Service Periods	Per Technician
Per occurrence	The charges for Maintenance of Service are the same as those set for Additional Labor as set forth in 7.2 preceding.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.4 Additional Testing

Testing Services provides for the use of a Telephone Company technician in performing specific tests authorized by the customer including additional testing of facilities which connect to facilities of other telephone companies. Testing Services offered under this section of the tariff are optional and are in addition to acceptance tests and in-service tests performed by the Telephone Company as described in 6.4 (G) and 6.1.8 preceding. Testing Services are made subject to the availability of the necessary qualified personnel and test equipment at the requested test locations.

Testing Services consist of Additional Cooperative Acceptance Testing (ACAT) which is performed during installation of Access Services and Nonscheduled Testing (NST) which is performed after acceptance of Access Services by the customer. Rates and charges for Testing Service are set forth in 7.4(C) following.

The Telephone Company will provide, upon request, documentation that lists the results of the tests performed. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

(A) Additional Cooperative Acceptance Testing

Rates and charges for Additional Cooperative Acceptance Testing of Switched and Special Access Services apply per technician used.

(1) Switched Access Service

Additional Cooperative Acceptance Testing (ACAT) of Switched Access Service is performed at the time of installation and involves the Telephone Company provision of a technician at its office(s) and the customer provides a technician at its premises, with suitable test equipment to perform the required tests. The Telephone Company may, at the request of the customer, supply a technician at the customer's premises to perform the required tests.

Additional Cooperative Acceptance Testing may, for example, consist of the following tests:

. C-Notched Noise
. Impulse Noise
. Phase Jitter

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.4 Additional Testing (Cont'd)

(A) Additional Cooperative Acceptance Testing (Cont'd)

(1) Switched Access Service (Cont'd)

. Signal to C-Notched Noise Ratio
. Intermodulation Distortion (Nonlinear)
. Frequency Shift (Offset)
. Envelope Delay Distortion
. Dial Pulse Percent Break

(2) Special Access Service

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 may provide a technician at its office for the purpose of conducting Additional Cooperative Acceptance Testing on Voice Grade Services at the time of installation. At the customer's request, the Telephone Company may provide a technician at the customer's premises or at the end user premises: These tests may, e.g., consist of the following: (T) (T)

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

(B) Nonscheduled Testing

Nonscheduled tests are performed by the Telephone Company "on demand." When a customer provides a technician at its premises with suitable test equipment to perform the required tests, the Telephone Company may provide a technician at its office for the purpose of conducting Nonscheduled Testing of Switched or Special Access services. At the customer's request, the Telephone Company may provide a technician at the customer's premises. Nonscheduled tests may consist of any tests, e.g., loss, noise, slope, envelope delay, which the customer may require. Rates and charges for Nonscheduled Testing apply per technician used.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.4 Additional Testing (Cont'd)

(C) Rates and Charges

The charges for Additional Testing are as follows:

Per Technician, Per Hour, or Fraction Thereof		
Basic Time	Overtime [1]	Premium Time [1]
$ 39.12	$ 58.68	$ 78.24

[1] 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.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.5 Presubscription

Presubscription is an arrangement whereby an end user may select and designate to the Telephone Company an IC to access, with 1+ as an access code, for interLATA calls. This IC is referred to as the end user's predesignated IC.

The regulations and charges pertaining to Presubscription are set forth in CC Docket 83-1145, Phase I, Memorandum Opinion and Order, Appendix B, adopted by the Federal Communications Commission on May 31, 1985 and released on June 12, 1985. A copy of the Order with all Appendices is available for inspection in the Public Reference Room of the Tariff Division at the main building of the Federal Communications Commission and can also be obtained from the FCC's commercial contractor. Regulations and charges for Presubscription set forth in this section are in compliance with the Order.

(A) End User Notification and Balloting Procedure

Approximately 90 days prior the introduction of equal access (Feature Group D) in a serving end office, the Telephone Company will notify all affected end users of the availability of equal access. The end user will be directed to designate a primary IC by the use of an equal access ballot to be returned to the Telephone Company within approximately 30 days after the mailing date. An end user has the option of independently contacting the IC to make arrangements for presubscription to the IC's service.

The equal access ballot will include all the names of ICs participating n the presubscription process. ICs are required to place an order for Feature Group D in accordance with the regulations set forth in Section 5 preceding. (T)

The end user may select only one primary IC for each access line or multiline hunt group through the ballot process. Multiline hunt group end users will be given the opportunity to select more than one primary IC by contacting the Telephone Company. Customers may designate that they do not want a primary IC by notifying the Telephone Company. This choice is considered a valid selection and the nonrecurring charge as set forth n (E)(1) following will apply to any subsequent change made after the equal access conversion date.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.5 Presubscription (Cont'd)

(A) End User Notification and Balloting Procedure (Cont'd)

New end users who are served by end offices equipped with Feature Group D will be required to presubscribe to an IC at the time they place an order with the Telephone Company for Telephone Exchange Service. A confirmation notice will be sent to end users who verbally place an order for service identifying the IC selected. There will be no charge for this initial selection. New end users will have thirty days from the date the initial selection is made to change their choice of an IC without charge.

(B) Allocation Process

End users who do not return their initial ballot will receive a second ballot indicating that they have been preassigned to a specific IC. The Telephone Company will assign non-presubscribed end users randomly to the participating ICs in the same proportion as the presubscribed end users based on the results of the initial balloting process as set forth in (A) preceding. Separate allocation processes will be used for residence and business lines.

End users who do not return the second ballot by the specified due date will be presubscribed to the IC indicated on that ballot effective with the equal access conversion. Allocated customers will have six months after the equal access conversion date to change to an IC of their choice without charge.

(C) IC Customer Lists

The Telephone Company will accept from the IC a list(s) of end users that have made individual arrangements with that IC to become their primary IC. The IC must submit a Telephone Company end user enrollment form listing these end users. The end user enrollment form must be accompanied by a document affirming that the IC does, in fact, have, or has instituted steps designed to obtain, signed letters of agency from the end users designating the IC to act as the end user's agent for the presubscription process. The IC will accept responsibility for any billing disputes arising from implementation of its end user lists.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.5 Presubscription (Cont'd)

(D) End User Choice Discrepancies

In the event of discrepancy between an end user's ballot and an IC's end user enrollment form, the Telephone Company will notify, within 10 days, all affected ICs via a conflict report. If the IC certifies to the Telephone Company that it has a signed letter of agency from the end user with a date subsequent to that on the ballot, that IC becomes the primary IC for that end user. If the IC is unable to obtain a letter of agency signed by the end user, the IC selected on the end user's ballot will be used.

When two or more enrollment forms are received from different ICs, and no ballot is returned, the end user in question will be included in the allocation process and will be notified, via the second ballot that a conflict exists. In addition, the ICs will be notified in this instance. If the conflict is discovered after allocation has taken place, the subscriber in question will be contacted by the Telephone Company to obtain a valid selection.

(E) Presubscription Charge

The nonrecurring charge for Presubscription will be applied as follows:

(1) After the end office equal access conversion date, for any change in the end user's, end user agent's or local service provider's who resell services (herein referred to as reseller) selection of a primary IC, a nonrecurring charge as set forth in (5) following will apply to the end user, end user agent or reseller. The nonrecurring charge for Presubscription does not apply to any change in selection of a primary IC made prior to the equal access conversion date.

(2) An allocated end user, end user agent or reseller may use the second ballot as described in (B) preceding or contact the Telephone Company to make an IC selection after allocation has taken place. There will be no charge for this selection if it is done within 6 months after the equal access conversion date.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.5 Presubscription (Cont'd)

(E) Presubscription Charge (Cont'd)

(3) Changes in an end user's, end user agent's or reseller's primary IC made as a result of the resolution of an end user, end user agent or reseller choice discrepancy, as set forth in (D) preceding, will not incur the nonrecurring charge, provided the change is made within 6 months after the equal access conversion date.

The Telephone Company will make post conversion changes in the end user's, end user agent's or reseller's PIC assignment pursuant to an IC provided list of customers, accepted by the Telephone Company under conditions set forth in (C) and (D). Should an end user, end user agent, or reseller dispute authorization of the change within two years of the PIC assignment, the Telephone Company will place the end user on the previous IC network where possible and the IC billed according to (F) following.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.5 Presubscription (Cont'd)

(E) Presubscription Charge (Cont'd)

(4) An IC will be charged the presubscription nonrecurring charge when it requests a change in the customer identification code assigned to an existing individual end user's service. This type of change does not require a change in the end user's primary IC, only a change in the type of service provided by the IC.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.5 Presubscription (Cont'd)

(E) Presubscription Charge (Cont'd)

(5) If an IC elects to discontinue all of its Feature Group D service in the converting end office prior to the conversion date or within two years after the introduction of Feature Group D in the converting end office, the IC must notify in writing all end users, end user agents or resellers who have selected or been allocated to that IC, inform these end users, end user agents or resellers of the cancellation, request the end users, end user agents or resellers to select a new IC and state that the canceling IC will pay for the change charge. For a period of two years from the discontinuance of FGD service the Telephone Company will bill a canceling IC the nonrecurring charge as set forth in (6) following for each end user, end user agent or reseller the IC currently has designated to it. (T) (T)

(6) The nonrecurring charge for Presubscription is as follows:

Presubscription, per Telephone Exchange Service line or trunk	Nonrecurring Charge The nonrecurring charge as shown in the Frontier FCC No. 6 tariff applies.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.5 Presubscription (Cont'd)

(F) Unauthorized Presubscription Restoral Change

An Unauthorized Presubscription Change is a change in the preferred intraLATA IC that the end user or Pay Telephone Service Provider denies authorizing.

If an end user or Pay Telephone Service Provider denies requesting a change in intraLATA IC as submitted by the alleged unauthorized IC, the alleged unauthorized IC will be assessed the Presubscription Charge as specified in 7.5(E)(5) for:

- Changing the end user or Pay Telephone Service Provider to the disputed IC, and

- Placing the end user or Pay Telephone Service Provider on their previous IC network or the IC network of their choice.

In accordance with the Federal Communications Commission's Slamming Liability Rules in CC Docket 94-129, if an alleged unauthorized carrier is ultimately exonerated of liability, the alleged unauthorized IC is entitled to receive full payment from the end user or Pay Telephone Service Provider for all services provided. In such situations, any Presubscription Charges assessed against the alleged unauthorized IC by the Telephone Company are subject to rebilling to the end user or Pay Telephone Service Provider by the alleged unauthorized IC.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.6 Protective Connecting Arrangements

The following Protective Connecting Arrangements (PCAs) are grandfathered and are offered on the basis of on-the-shelf availability:

Description	Monthly Rates	Nonrecurring Charges
Automatic PCA with a contact type signaling interface for 2 or 4-wire voice-band connections of CPE communications systems to Telephone Company Special Access Services.	-	$ 5.85
Automatic PCA for connection of a customer, authorized user or joint user provided communications system arranged for CPE dial or automatic channel signaling, to a Telephone Company Special Access Service which terminates at the distant end in a telephone company-provided PBX arranged for dial or automatic signaling (4 wire).	10.10	87.15
PCA which provides for connection of CPE automatic telephone answering devices to central office, PBX trunk, key system lines, and centrex station lines by means of a 2-wire interface.	ICB rates and charges apply	
PCA for connection of CPE answering or recording equipment to Telephone Company lines, for one-way voice transmission in each direction but not simultaneously. Recording of two-way conversations is prevented, by the PCA.	5.40	30.75

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.6 Protective Connecting Arrangements (Cont'd)

Description	Monthly Rates	Nonrecurring Charges
PCA for use with CPE answer only equipment where two-way transmission is required.	ICB rates and charges apply	
Same application as above with voice control disconnect and automatic receive volume limiting.	ICB rates and charges apply	
PCA for use with CPE to provide data on PBX trunks. Also requires standard PBX trunk PCA.	ICB rates and charges apply	
PCA to permit connection of CPE message registers to exchange facilities of the Telephone Company for indications of message registration for outgoing calls over the associated central office trunks (facilities). Each trunk would also have a PCA (typically CDH or CD8) for connection of the CPE PBX. Association of the trunk with the station is made by the CPE.	ICB rates and charges apply	
Alarm coupler for use with rotary dial, one-way transmission CPE alarm signaling device.	ICB rates and charges apply	

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.6 Protective Connecting Arrangements (Cont'd)

Description	Monthly Rates	Nonrecurring Charges
PCA to permit the connection of CPE to a Telephone Company special recording trunk arranged for 2-way service, i.e., outward dialing by hotel/motel guests and rering by the operator of the Telephone Company long distance switchboard (the equivalent of a toll terminal).	ICB rates and charges apply	
For termination of CPE tie lines, with CPE channel signaling, in Centrex systems 4-wire.	$ 7.20	$ 21.60
PCA used for automatic connection of CPE voice transmitting and/or receiving terminal equipment to an exchange line or PBX/CTX station line, or to a WATS Access Line.	9.40	7.80
PCA to provide for connection of CPE terminal equipment to Telephone Company central office key system and PBX station lines and WATS Access Lines via 3-wire interface.	ICB rates and charges apply	

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.6 Protective Connecting Arrangements (Cont'd)

Description	Monthly Rates	Nonrecurring Charges
PCA for connection of CPE voice communications systems and/or terminal equipment via 2-wire interface to Telephone Company lines and trunks (only loop start trunks not equipped for toll diversion), or terminal equipment.	ICB rates and charges apply	
Manual PCA used to connect a cord switchboard position of CPE system, which provides supervisory signals, to an exchange trunk line.	ICB rates and charges apply	
Automatic PCA used to connect an exchange trunk line arranged for two-way combination service to and from the attendant position and from the dial switching equipment of a CPE system.	$ 10.45	$ 39.05
Automatic PCA used to connect an exchange trunk line arranged for one-way incoming service to the attendant position of a CPE system.	ICB rates and charges apply	
Automatic PCA used to connect an exchange trunk line arranged for one-way outgoing service from the attendant position of a CPE system.	ICB rates and charges apply	

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.6 Protective Connecting Arrangements (Cont'd)

Description	Monthly Rates	Nonrecurring Charges
Automatic PCA used to connect an exchange trunk line arranged for one-way outgoing service from the dial switching equipment of a CPE system.	ICB rates and charges apply	
Automatic PCA used to connect an exchange trunk line arranged for one-way service, to and from the attendant position of a CPE system.	$ 7.80	$ 39.05
PCA used for automatic connecting of CPE voice transmitting and/or receiving terminal equipment bridged to an exchange line or PBX/CTX station line, or to a Switched Access Line, e.g., WATS access line, which is terminated in a Telephone Company station.	9.40	7.80
Automatic PCA used to connect an exchange trunk line, arranged for one-way service, i.e., outward dialing by hotel/motel guests to the operator position of a Telephone Company long distance switchboard (the equivalent of a toll terminal).	ICB rates and charges apply	
PCA to provide for connection of CPE originate only or originate and answer terminal equipment.	ICB rates and charges apply	

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.7 Miscellaneous Equipment

(A) Controller Arrangement

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

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

	Monthly Charge
- Per arrangement	$ 100.00

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.8 Telecommunications Service Priority (TSP)

TSP is the regulatory, administrative, and operational system developed by the Federal Government to ensure priority provisioning and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services. The Federal Communications Commission (FCC) defines NSEP telecommunications services as those services which are used to maintain a state of readiness or to respond to and manage any event or crisis, which causes or could cause harm to the population, damage to or loss of property, or degrades or threatens the NSEP posture of the United States. See Frontier's Tariff FCC No. 6, Access Service, Telecommunications Service Priority, for terms, conditions, rates and charges.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.9 Standard Jacks - Registration Program

Standard jacks are provided by the Telephone Company to connect Registered Equipment to those services that are subject to the Registration Program as set forth in 2.5 preceding. The use of jacks is covered in Part 68 of the FCC's Rules and Regulations. Specific jacks are described in the document on file with the FCC entitled "Descriptions of Standard Registration Program Connection Configurations Supplementing Configurations Described in Subpart F of Part 68 of FCC's Rules and Regulations."

These jacks are used to terminate services provided by the Telephone Company. Other services or facilities provided by the Telephone Company or by others may also be terminated in any space capacity of the jacks remaining after installation without additional charge for the use of such capacity.

The nonrecurring charges, which include installation, for standard jacks and their typical uses are set forth following:

			Nonrecurring Charges
(A)	Standard Voice Jacks		
	(1)	Miniature six-position jacks for connection of terminal equipment as follows:	
		(a) Single line telephone set surface or flush mounted.	$ 10.00
		(b) Single line telephone sets wall mounted.	10.00

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.9 Standard Jacks - Registration Program (Cont'd)

(A) Standard Voice Jacks (Cont'd)

			Nonrecurring Charges
(1)	(Cont'd)		
	(c)	Two-line nonkey telephone sets surface or flush mounted.	$ 10.00
	(d)	Single-line bridged 4-wire exchange 2/RT, T1/R1.	10.00
	(e)	Two-line nonkey telephone sets wall mounted.	10.00
	(f)	Special single line equipment for use in hospital critical care areas.	10.00
	(g)	9DB single line data equipment with mode indication and mode indication common leads. This jack is normally used in association with a series jack.	10.00
	(h)	Three-line non-key telephone sets and ancillary devices.	49.00
(2)	50 Position Miniature Ribbon for connection of multiline terminating equipment and channel derivation devices as follows:		

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.9 Standard Jacks - Registration Program (Cont'd)

(A) Standard Voice Jacks (Cont'd)

(2) (Cont'd)		Nonrecurring Charges
(a)	For connection to 2-wire tie trunks E&M type I signaling. (12 line capacity)	$ 160.00
(b)	For connection to 4-wire tie trunks E&M type I signaling. (8 line capacity)	160.00
(c)	For connection to 2-wire tie trunks E&M type II signaling. (8 line capacity)	160.00
(d)	For connection to 4-wire tie trunks E&M type II signaling. (6 line capacity)	160.00
(e)	For connection to off-premises station lines. (25 line capacity)	160.00
(f)	For use with series devices such as toll restrictors. (12 line capacity)	105.00
(g)	For connection of up to 12 line bridged 4-wire exchange 2/RT, T1/R1.	100.00

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.9 Standard Jacks - Registration Program (Cont'd)

(A) Standard Voice Jacks (Cont'd)

		Nonrecurring Charges
(3)	Series Jacks for connection of terminal equipment as follows:	
(a)	Single line alarm reporting devices.	$ 66.00
(b)	Series ancillary devices such as automatic dialers. Single line sets with exclusion.	66.00
(c)	Two line telephone sets with exclusion on one line.	66.00
(4)	Weatherproof Jack for use with single line telephone sets used at locations such as boats and marinas.	120.00

(B) Standard Data Jacks

		Nonrecurring Charges
(1)	Universal Data Jack for use in connecting fixed loss loop (FLL) and programmed (P) types of date equipment. (1 line capacity)	$ 65.00
(2)	Programmed Data Jack for use in connecting programmed data equipment. (1 line capacity)	65.00

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.9 Standard Jacks - Registration Program (Cont'd)

(B) Standard Data Jacks (Cont'd)

		Nonrecurring Charges
(3)	Multiple Line Universal Data Jack for use in connecting fixed loss loop (FLL) and programmed (P) types of data equipment. This jack will terminate up to eight lines. The selection of this jack requires the use of the equipment listed following.	$ 250.00
(a)	Multiple Line Universal Data Jack Circuit Cards. For use with Multiple Line Universal Data Jack. One circuit card per circuit required.	79.00
(b)	Multiple Line Universal Data Jacking Mounting options. For use with Multiple Line Universal Data Jack. One required per Multiple Line Universal Data Jack.	
-	Wall Mounting with cover.	45.00
-	Rack Mounting (19 inch or 23 inch)	28.00

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.10 Billing Name and Address Service (BNAS)

The Utility will, upon request, provide Billing Name and Address Service (BNAS) to a Telecommunications Service Provider (customer), or its authorized billing and collection agent. Telecommunications Service Providers include interLATA carriers, operator service providers, enchanced service providers, and any other provider of interLATA telecommunications services. There are three BNAS offerings available pursuant to this tariff, Per Call/Periodic BNA, Data Gathering Service (DGS), and End User Validation List.

(A) Per Call/Periodic BNA and Data Gathering Service

Per Call/Periodic BNA Service provides billing name and address information and Data Gathering Service provides billing telephone number, name, address and associated working telephone number information for customer provided ten digit end user telephone numbers required by the Telecommunications Service provider customer to bill for calls placed within a specific time period. Per Call/Periodic BNA and DGS are offered subject to the conditions:

A standard format for the receipt and provision of telephone number and billing name and address information will be established by the Utility. Charges for each Per Call/Periodic BNA searched for and found or searched for and not found will be billed at rates in 7.10 (C)(1). Charges for each record accessed for DGS are set forth under 7.10 (C)(2). Per Call/Periodic BNA and DGS will be provided via magnetic tape, electronic transmission, or paper format, at the option of the customer, at rates in 7.10 (C)(1) or 7.10 (C)(2) respectively. The processing fee will be applied once per calendar year for BNAS processing done within that calendar year.

The customer must order Per Call/Periodic BNA or DGS and provide test data tape at least 30 days prior to delivery of the first customer order.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.10 Billing Name and Address Service (BNAS) (Cont'd)

(A) Per Call/Periodic BNA and Data Gathering Service (Cont'd)

The frequency for receipt of the customer provided orders for Per Call/Periodic BNA or DGS will be no more than twice monthly and at intervals mutually agreed upon between the Utility and the customer. The customer provided end user telephone numbers will be programmed by the Utility with the proper end user's billing name and address contained in the Utility's file at that time.

Per Call/Periodic BNA and DGS information for nonlisted/nonpublished end user telephone numbers will be provided unless the nonlisted/nonpublished end user provides written notice to the Utility of nonconsent to the release of the BNA/DGS data. Within 30 days of receipt of such notice, the Utility will discontinue disclosure of the end user's nonlisted/nonpublished BNA/DGS data.

For other than electronic transmission, the output records will be sent to the customer via first class U.S. Mail. The output records will normally be made available for mailing ten workdays after receipt of the customer order or at an interval mutually agreed upon. Availability may be delayed in case of input errors in the customer provided order.

The customer may request data be transmitted. Data transmission charges will be determined on an individual case basis. Data transmission hardware and software specifications will be mutually agreed upon by the Utility and the customer. (T)

Per Call/Periodic BNA and DGS detail will not be retained by the Utility longer than 45 days. If the customer requests that the output be made available on a second occasion, such request must occur within 30 days from the date the first request was made.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.10 Billing Name and Address Service (BNAS) (Cont'd)

(A) Per Call/Periodic BNA and Data Gathering Service (Cont'd)

Any customer, provided Per Call/Periodic BNA or DGS pursuant to this tariff, agrees to abide by all applicable rules, decisions, orders, statutes and laws concerning the disclosure of published and nonpublished telephone numbers, and further agrees to use the information contained therein only for the purpose of billing for services provided to their end users.

In no case shall any customer or authorized billing and collection agent of a customer disclose the billing name and address information of any subscriber to any third party, except that a customer may disclose BNA/DGS information to its authorized billing and collection agent or to governmental law enforcement agencies.

(B) End User Validation List Service

End User Validation List Service provides for the disclosure of all, or a portion of, end user/agent data available from the Utility's records, to a Telecommunications Service Provider (customer), for purposes other than billing, and in compliance with the Commission's rules and regulations. In addition, End User Validation List Service is offered subject to the following:

Standard End User Validation Lists will be provided in three (3) files, business, coin (semi-public and public paystations) and residence. Nonlisted/nonpublished information will be excluded, with the exception of nonlisted public paystations. Rates for standard End User Validation List Service are set forth under 7.10 (C).

Per calendar year, the customer may request up to two (2) lists for each business, coin, and residence listing.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.10 Billing Name and Address Service (BNAS) (Cont'd)

(B) End User Validation List Service (Cont'd)

A standard format will be established by the Utility. Requests for special list sorts will be limited to an end user list separating those that are presubscribed to the requesting customer, and/or those that are not. The rate, per record, applicable to special sorts is set forth under 7.10 (C).

Each request shall be treated as a new request. Requests for updates from previous lists will not be provided.

The customer shall have fifteen (15) business days from the date of delivery of a list to request any investigation of issues arising from the provision of the list.

End User Validation Lists will normally be provided to the customer within thirty calendar days after receipt of a request and within ten (10) business days of extraction, or at an interval mutually agreed upon. The administrative fee set forth under 7.10 (C) applies per request.

In no case shall any customer or authorized billing and collection agent of a customer disclose the billing name and address information of any subscriber to any third party, except that a customer may disclose BNA information to its authorized billing and collection agent or to governmental law enforcement agencies.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.10 Billing Name and Address Service (BNAS) (Cont'd)

(C) Rates and Charges

(1)	Per Call/Periodic BNA Service	
	Bill Name and Address Found, each	$ .25
	Bill Name and Address Not Found, each	.25
	Processing Fee [1]	
	Paper Report, Electronic Transmission or Magnetic Tape, each	51.20
(2)	Data Gathering Service	
	Per Record Accessed	.18
	Processing Fee [2]	
	Paper Report, Electronic Transmission or Magnetic Tape, each	75.00
(3)	End User Validation List Service	
	Standard Sort, per record provided	.034
	Special Sort, per record provided	.054
	Administrative Fee	
	Paper Report, Electronic Transmission or Magnetic Tape, per request	78.00

[1] Applies once per calendar year for BNA processing done within that calendar year.
[2] Applies once per calendar year for DGS processing done within that calendar year.

(continued)

ACCESS SERVICE

7. Miscellaneous Services (Cont'd)

7.11 Unauthorized Change of Local Service Provider

(A) The term "unauthorized change of local service provider" is a change in the preferred local service provider that the end user denies authorizing.

If an end user denies authorizing a change in his/her local service provider, as submitted by the alleged unauthorized local service provider, the alleged unauthorized service provider will be assessed the nonrecurring charges, as specified in Frontier Communications of the Southwest, Inc.'s tariff, A.C.C. Schedule No. A-5, to restore the customer's service(s) as they existed prior to the alleged unauthorized change. In addition, the terms and conditions normally associated with a request for new service, as specified in Frontier Communications of the Southwest, Inc.'s tariff, A.C.C. Schedule A-1, Network Access Line Service, will apply.

In accordance with the Federal Communications Commission's Slamming Liability Rules in CC Docket 94-129, if an alleged unauthorized local service provider is ultimately exonerated of liability, the alleged unauthorized local service provider is entitled to receive full payment from the end user for all services provided. In such situations, any nonrecurring charges assessed against the alleged unauthorized local service provider by Frontier Communications of the Southwest, Inc. are subject to rebilling to the end user by the alleged unauthorized local service provider.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes

8.1 Local Transport Interface Groups

Ten Interface Groups are provided for terminating the Local Transport at the customer's premises. Each Interface Group provides a specified premises interface code (e.g., two-wire, four-wire, DS1, etc.). At the option of the customer and where transmission facilities permit, the individual transmission path between the customer's premises and the first point of switching may be provided with optional features as set forth in Section 5 preceding. (T)

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer's premises, the need for signaling conversions or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Telephone Company equipment be placed at the customer's premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer's premises are digital, then Telephone Company channel bank equipment must be placed at the customer's premises in order to provide the voice frequency interface ordered by the customer.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes

8.1 Local Transport Interface Groups (Cont'd)

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

Only certain premises interfaces are available at the customer's premises. The premises interfaces codes associated with the Interface Groups may vary among Feature Groups. The various premises interfaces codes which are available with the Interface Groups, and the Feature Groups with which they may be used, are set forth in 8.1.11 following.

For each of the ten Interface Groups described following, the transmission path between the point of termination at the customer's premises and the first point of switching may be comprised of any form or configuration of plant and equipment capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz.

8.1.1 Interface Group 1

Interface Group 1 provides a two-wire voice frequency transmission path at the point of termination at the customer's premises. Interface Group 1 is not provided in association with FGC and FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB, FGC or FGD when the first point of switching can only provide four-wire terminations.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.1 Local Transport Interface Groups (Cont'd)

8.1.1 Interface Group 1 (Cont'd)

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling will be reverse battery signaling. When FGB, FGC, or FGD access service is associated with a two-way calling interface, E&M signaling shall be used.

8.1.2 Interface Group 2

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer's premises. The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

8.1.3 Interface Group 3

Interface group 3 provides group level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 60 to 180 kHz, with the capability to channelize up to 12 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex equipment to derive 12 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. (T)

The interface is provided with SF supervisory signaling for each individual transmission channel.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.1 Local Transport Interface Groups (Cont'd)

8.1.4 Interface Group 4

Interface group 4 provides supergroup level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 312 to 552 kHz, with the capability to channelize up to 60 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 60 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with SF supervisory signaling for each individual transmission channel.

8.1.5 Interface Group 5

Interface Group 5 provides mastergroup level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 564 to 3084 kHz, with the capability to channelize up to 600 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 600 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with SF supervisory signaling for each individual transmission channel.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.1 Local Transport Interface Groups (Cont'd)

8.1.6 Interface Group 6

Interface Group 6 provides DS1 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive 24 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, a DS1 signal in D3/D4 format.

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

8.1.7 Interface Group 7

Interface Group 7 provides DS1C level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 3.152 Mbps, with the capability to channelize up to 48 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 48 voice frequency transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.1 Local Transport Interface Groups (Cont'd)

8.1.8 Interface Group 8

Interface Group 8 provides DS2 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 6.312 Mbps, with the capability to channelize up to 96 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment in its office to derive up to 96 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

8.1.9 Interface Group 9

Interface Group 9 provides DS3 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 672 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with bit stream supervisory signaling for each individual transmission channel. (T)

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.1 Local Transport Interface Groups (Cont'd)

8.1.10 Interface Group 10

Interface Group 10 provides DS4 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 274.176 Mbps, with the capability to channelize up to 4032 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 4032 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

8.1.11 Available Premises Interface Codes

Following is a matrix showing which premises interface codes are available for each Interface Group as a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see the Glossary of Channel Interface Codes in 8.3.1 following.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.1 Local Transport Interface Groups (Cont'd)

8.1.11 Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	B	C	D
1	LO	2LS2	X			
	LO	2LS3	X			
	GO	2GS2	X			
	GO	2GS3	X			
	LO, GO	2DX3	X			
	LO, GO	4EA3-E	X			
	LO, GO	4EA3-M	X			
	LO, GO	6EB3-E	X			
	LO, GO	6EB3-M	X			
	RV, EA, EB, EC	2DX3		X	X	X
	RV, EA, EB, EC	4EA3-E		X	X	X
	RV, EA, EB, EC	4EA3-M		X	X	X
	RV, EA, EB, EC	6EB3-E		X	X	X
	RV, EA, EB, EC	6EB3-M		X	X	X
	EA, EB, EC	6EC3			X	X
	RV	2RV3-O		X	X	X
	RV	2RV3-T		X	X	X
2	LO, GO	4SF2	X			
	LO, GO	4SF3	X			
	LO	4LS2	X			
	LO	4LS3	X			
	LO	6LS2	X			
	GO	4GS2	X			
	GO	4GS3	X			
	GO	6GS2	X			
	LO, GO	4DX2	X			
	LO, GO	4DX3	X			
	LO, GO	6EA2-E	X			
	LO, GO	6EA2-M	X			
	LO, GO	8EB2-E	X			
	LO, GO	8EB2-M	X			
	LO, GO	6EX2-B	X			

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.1 Local Transport Interface Groups (Cont'd)

8.1.11 Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	B	C	D
2 (Cont'd)						
	RV, EA, EB, EC	4SF2		X	X	X
	RV, EA, EB, EC	4SF3		X		
	RV, EA, EB, EC	4DX2		X	X	X
	RV, EA, EB, EC	4DX3		X	X	X
	RV, EA, EB, EC	6DX2			X	
	RV, EA, EB, EC	6EA2-E		X	X	X
	RV, EA, EB, EC	6EA2-M		X	X	X
	RV, EA, EB, EC	8EB2-E		X	X	X
	RV, EA, EB, EC	8EB2-M		X	X	X
	EA, EB, EC	8EC2-M			X	X
	RV	4RV2-O		X	X	X
	RV	4RV2-T		X	X	X
	RV	4RV3-O		X	X	
	RV	4RV3-T		X	X	
3	LO, GO	4AH5-B	X			
	RV, EA, EB, EC	4AH5-B		X	X	X
4	LO, GO	4AH6-C	X			
	RV, EA, EB, EC	4AH6-C		X	X	X
5	LO, GO	4AH6-D	X			
	RV, EA, EB, EC	4AH6-D		X	X	X
6	LO, GO	4DS9-15	X			
	LO, GO	4DS9-15L	X			
	RV, EA, EB, EC	4DS9-15		X	X	X
	RV, EA, EB, EC	4DS9-15L		X	X	X
7	LO, GO	4DS9-31	X			
	RV, EA, EB, EC	4DS9-32		X	X	X
	LO, GO	4DS9-31L	X			
	RV, EA, EB, EC	4DS9-31L		X	X	X

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.1 Local Transport Interface Groups (Cont'd)

8.1.11 Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	B	C	D
8	LO, GO	4DSO-63	X			
	LO, GO	4DSO-63L	X			
	RV, EA, EB, EC	4DSO-63		X	X	X
	RV, EA, EB, EC	4DSO-63L		X	X	X
9	LO, GO	4DS6-44	X			
	LO, GO	4DS6-44L	X			
	RV, EA, EB, EC	4DS6-44		X	X	X
	RV, EA, EB, EC	4DS6-44L		X	X	X
10	LO, GO	4DS6-27	X			
	LO, GO	4DS6-27L	X			
	RV, EA, EB, EC	4DS6-27		X	X	X
	RV, EA, EB, EC	4DS6-27L		X	X	X

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.2 Transmission Specifications for Switched Access Service

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to the effective date of this tariff except that service configurations having performance specifications exceeding the standards listed in this provision will be maintained at performance levels specified in this tariff.

The transmission specifications contained in this Section are immediate action limits. Acceptance limits are set forth in Technical Reference TR-NPL-000334. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

8.2.1 Standard Transmission Specifications

Following are descriptions of the three Standard Transmission Specifications available with Switched Access Services. The specific applications in terms of the Switched Access Arrangements and Interface Groups with which the Switched Access Arrangement Standard Transmission Specifications are provided are set forth in Section 5 preceding. (T)

(A) Type A Transmission Specifications

Type A Transmission Specifications is provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 2.0 dB

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.2 Transmission Specifications for Switched Access Service (Cont'd)

8.2.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

Route Miles	C-Message Noise
less than 50	32 dBrnCO
51 to 100	34 dBrnCO
101 to 200	37 dBrnCO
201 to 400	40 dBrnCO
401 to 1000	42 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBrnCO.

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.2 Transmission Specifications for Switched Access Service (Cont'd)

8.2.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(5) Echo Control (Cont'd)

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	21 dB	14 dB
POT to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11 dB

(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire ports of a four-wire point of termination shall be equal to or greater than:

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

(B) Type B Transmission Specifications

Type B Transmission Specifications is provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 2.5 dB.

(2) Attentuation Distortion

The maximum Attenuation Distortion is the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.2 Transmission Specifications for Switched Access Service (Cont'd)

8.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

Route Miles	C-Message Noise [1] Type B1	Type B2
less than 50	32 dBrnCO	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone is less than or equal to 47 dBrnCO.

(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGC and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Switched Access Service, type oftermination, and type of transmission path. They are greater than or equal to the following:

[1] For Feature Groups C and D only Type B2 will be provided. For Feature Groups A and B, Type B1 or B2 will be provided as set forth in Technical Reference TR-NPL-000334.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.2 Transmission Specifications for Switched Access Service (Cont'd)

8.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(5) Echo Control (Cont'd)

	Echo Return Loss	Singing Return Loss
POT to Access Tandem		
- Terminated in 4-Wire trunk	21 dB	14 dB
POT to End Office		
- Terminated in 2-Wire trunk	16 dB	11 dB
POT to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem		
- For FGB access	8 dB	4 dB
- For FGC access (Effective 4-Wire transmission path at end office)	16 dB	11 dB
- For FGC access (Effective 2-Wire transmission path at end office)	13 dB	6 dB

(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing return Loss, on two-wire ports of a four-wire point of termination shall be equal to or greater than: (T)

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.2 Transmission Specifications for Switched Access Service (Cont'd)

8.2.1 Standard Transmission Specifications (Cont'd)

(C) Type C Transmission Specifications

Type C Transmission Specifications is provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 3.0 dB.

(2) Attenuation Distoration

The maximum Attenuation Distoration in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

Route Miles	C-Message Noise [1] Type B1	Type B2
less than 50	32 dBrnCO	38 dBrnCO
51 to 100	33 dBrnCO	39 dBrnCO
101 to 200	35 dBrnCO	41 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone is less than or equal to 47 dBrnCO.

[1] For Feature Groups C and D only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided set forth in Technical Reference TR-NPL-000334.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.2 Transmission Specifications for Switched Access Service (Cont'd)

8.2.1 Standard Transmission Specifications (Cont'd)

(C) Type C Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	13 dB	6 dB
POT to End Office		
- Direct	13 dB	6 dB
- Via Access Tandem (for FGB only)	8 dB	4 dB

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.2 Transmission Specifications for Switched Access Service (Cont'd)

8.2.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Switched Access Service arrangements. The specific applications in terms of the Feature Groups with which they are provided are set forth in Section 5 preceding. In addition, the Combined Access Service Arrangement is provided with Data Transmission Parameters. Following are descriptions of each parameter. (T)

(A) Data Transmission Parameters Type DA

(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

(2) Envelope Delay Distortion

The maximum envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz	
less than 30 route miles	500 microseconds
equal to or greater than 30 route miles	900 microseconds

1004 to 2404 Hz	
less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.2 Transmission Specifications for Switched Access Service (Cont'd)

8.2.2 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.2 Transmission Specifications for Switched Access Service (Cont'd)

8.2.2 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB

(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz	
less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds
1004 to 2404 Hz	
less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7° peak-to-peak.

(6) Frequency Shift

The maximum frequency Shift does not exceed -2 to +2 Hz.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Special Access Service. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

Example: If the customer specifies a NT Network Channel Code and a 2DS8-3 Channel Interface at the customer's premises, the following is being requested:

NT = Metallic Circuit with a Predefined Technical Specification Package (1)
2 = Number of physical wires at customer premises
DC = Facility interface for direct current or voltage
8 = Variable impedance level
3 = Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.1 Glossary of Channel Interface Codes and Options

Code	Option	Definition
AB -		accepts 20 Hz ringing signal at customer's point of termination
AC -		accepts 20 Hz ringing signal at customer's end user's point of termination
AH -		analog high capacity interface
-	B	60 kHz to 108 kHz (12 channels)
-	C	312 kHz to 552 kHz (60 channels)
-	D	564 kHz to 3084 kHz (600 channels)
CT -		Centrex Tie Trunk Termination
DA -		data stream in VF frequency band at customer's end user's point of termination
DB -		data stream in VF frequency band at customer's point of termination
-	10	VF for TG1 and TG2
-	43	VF for 43 Telegraph Carrier type signals, TG1 and TG2 DC -direct current or voltage
-	1	monitoring interface with series RC combination (McCulloh format)
-	2	Telephone Company energized alarm channel
-	3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)
DD -		DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE -		DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination
DS -		digital hierarchy interface
-	15	1.544 Mbps (DS1) format per PUB 41451 plus D4
-	15E	8-bit PCM encoded in one 64 kbps of the DS1 signal
-	15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
-	15G	8-bit PCM encoded in three 64 kbps of the DS1 signal
-	15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
-	15J	1.544 Mbps format per PUB 41451

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

Code	Option	Definition
-	15K	1.544 Mbps format per PUB 41451 plus extended framing format
-	15L	1.544 Mbps (DS1) with SF signaling
-	27	274.176 Mbps (DS4)
-	27L	274.176 Mbps (DS4) with SF signaling
-	31	3.152 Mbps (DS1C)
-	31L	3.152 Mbps (DS1C) with SF signaling
-	44	44.736 Mbps (DS3)
-	44L	44.736 Mbps (DS3) with SF signaling
-	63	6.312 Mbps (DS2)
-	63L	6.312 Mbps (DS2) with SF signaling
DU -		digital access interface
-	24	2.4 kbps
-	48	4.8 kbps
-	56	56.0 kbps
-	96	9.6 kbps
-	A	1.544 Mbps format per PUB 41451
-	B	1.544 Mbps format per PUB 41451 plus D4
-	C	1.544 Mbps format per PUB 41451 plus extended framing format
DX -		duplex signaling interface at customer's point of termination
DY -		duplex signaling interface at customer's end user's point of termination
EA -	E	type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EA -	M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EB -	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

Code	Option	Definition
EB -	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EC -		Type III E&M signaling at customer POT
EX -	A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions.
EX -	B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.
GO -		ground start loop signaling - open end function by customer or customer's end user.
GS -		ground start loop signaling - closed end function by customer or customer's end user
IA -		E.I.A. (25 pin RS-232)
LA -		end user loop start loop signaling - Type A OPS registered port open end
LB -		end user loop start loop signaling - Type B OPS registered port open end
LC -		end user loop start loop signaling - Type C OPS registered port open end
LO -		loop start loop signaling - open end function by customer or customer's end user
LR -		20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR
LS -		loop start loop signaling - closed end function by customer or customer's end user
NO -		no signaling interface, transmission only

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

Code	Option	Definition
PG	-	program transmission - no dc signaling
-	1	nominal frequency from 50 to 15000 Hz
-	3	nominal frequency from 200 to 3500 Hz
-	5	nominal frequency from 100 to 5000 Hz
-	8	nominal frequency from 50 to 8000 Hz
PR		protective relaying [1]
RV	-	reverse battery signaling, one way operation, originate by customer
-	T	reverse battery signaling, one way operation, terminate function by customer or customer's end user
SF	-	single frequency signaling with VF band at either customer POT or customer's end user POT
TF	-	telephotograph interface
TT	-	telegraph/teletypewriter interface at either customer POT or customer's end user POT
-	2	20.0 milliamperes
-	3	3.0 milliamperes
-	6	62.5 milliamperes
TV	-	television interface
-	1	combined (diplexed) video and one audio signal
-	2	combined (diplexed) video and two audio signals
-	5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire
-	15	video plus one (or two) audio 15 kHz signal(s)
WA	-	wideband bandwidth interface at customer's end user POT
-	1	limited bandwidth
-	2	nominal passband from 29000 to 44000 Hz

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

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

Code	Option	Definition
WB -		wideband data interface at customer POT
-	18S	18.75 kbps, synchronous
-	19A	up to 19.2 kbps asynchronous
-	19S	19.2 kbps synchronous
-	23A	up to 230.4 kbps, asynchronous
-	23S	230.4 kbps, synchronous
-	40S	40.8 kbps, synchronous
-	50A	up to 50.0 kbps, asynchronous
-	50S	50.0 kbps synchronous
WC -		wideband data interface at customer's end user
-	18	POT 18.75 kbps, synchronous
-	19	for 12-wire interface: 19.2 kbps, synchronous for 10-wire interface: up to 19.2 kbps,
-	23	asynchronous up to 230.4 kbps, asynchronous
-	23S	230.4 kbps, synchronous
-	40	40.8 kbps, synchronous
-	50	for 12-wire interface: 50.0 kbps, synchronous for 10-wire interface: up to 50.0 kbps, asynchronous
WD -		wideband bandwidth interface at customer POT
-	1	nominal passband from 300 to 18000 Hz
-	2	nominal passband from 28000 to 44000 Hz
-	3	nominal passband from 29000 to 44000 Hz

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.2 Impedance

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

Value (ohms)	Code(s)
110	0
150	1
600	2
900	3 [1]
135	5
75	6
124	7
Variable	8
100	9

[1] For those interface codes with a 4-wire transmission path at the customer's 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.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.3 Digital Hierarchy Channel Interface Codes (4DS)

Customers selecting the multiplexed four-wire DSX-1 or higher facility interface option at the customer designated premises will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS9, 4DS0 or 4DS6 plus the speed options indicated below:

Interface Code and Speed Option	Nominal Bit Rate (Mbps)	Digital Hierarchy Level
4DS8-15	1.544	DS1
4DS9-31	3.152	DS1C
4DS0-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.4 Service Designator/Network Channel Code Conversion Table

The purpose of this table is to show the relationship between the service designator codes (e.g. VGC, MT2, etc.) and the network channel codes that are used for various administrative purposes.

Service Designator Code	Network Channel Code
MTC	MQ
MT1	NT
MT2	NU
MT3	NV
TGC	NQ
TG1	NW
TG2	NY
VGC	LQ
VG1	LB
VG2	LC
VG3	LD
VG4	LE
VG5	LF
VG6	LG
VG7	LH
VG8	LJ
VG9	LK
VG1	LN
VG1	LP
VG12	LR
APC	PQ
AP1	PE
AP2	PF
AP3	PJ
AP4	PK
TVC	TQ
TV1	TV
TV2	TW

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

Service Designator Code	Network Channel Code
WA1	WJ
WA1T	WQ
WA2	WL
WA2A	WR
WA3	WN
WA4	WP
WD1	WB
WD2	WE
WD3	WF
DA1	XA
DA2	XB
DA3	XG
DA4	XH
HCO	HS
HC1	HC
HC1C	HD
HC2	HE
HC3	HF
HC4	HG

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces

The following tables show the channel interface codes (CIs) Which are compatible:

(A) Metallic

Compatible CIs	
4AH5-B	2DC8-1
4AH5-B	24C8-2
4AH6-C	2DC8-1
4AH6-C	2DC8-2
4AH6-D	2DC8-1

Compatible CIs	
4AH6-D	2DC8-2
2DC8-1	2DC8-2
2DC8-3	2DC8-3
4DS9- [1]	2DC8-1
4DS9- [1]	2DC8-2

(B) Telegraph Grade

Compatible CIs	
4AH5-B	10IA8
4AH5-B	2TT2-2
4AH5-B	4TT2-2
4AH5-B	2TT2-6
4AH5-B	4TT2-6
4AH6-C	10IA8
4AH6-C	2TT2-2
4AH6-C	4TT2-2
4AH6-C	2TT2-6
4AH6-C	4TT2-6
4AH6-D	10IA8
4AH6-D	2TT2-2
4AH6-D	4TT2-2
4AH6-D	2TT2-6

Compatible CIs	
4AH6-D	4TT2-6
2DB2-10	10IA8
2DB2-10	2TT2-2
2DB2-10	4TT2-2
2DB2-43 [2]	10IA8
2DB2-43 [2]	2TT2-2
2DB2-43 [2]	2TT2-6
2DB2-43 [2]	4TT2-2
4DB2-10	1OIA8
4DB2-10	2TT2-2
4DB2-10	4TT2-2
4DB2-43 [2]	10IA8
4DB2-43 [2]	2TT2-6

Compatible CIs	
4DB2-43 [2]	4TT2-2
4DS9- [1]	10IA8
4DS9- [1]	2TT2-2
4DS9- [1]	4TT2-2
4DS9- [1]	2TT2-6
4DS9- [1]	4TT2-6
2TT2-2	2TT2-2
2TT2-3	2TT2-2
2TT2-3	4TT2-2
2TT2-6	2TT2-6
2TT2-6	4TT2-2
4TT2-2	4TT2-2
4TT2-6	2TT2-6

[1] See 6.5.3 preceding for explanation.
[2] Supplemental Channel Assignment information required.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade

Compatible CIs		Compatible CIs		Compatible CIs	
4AB2	4AB2				
4AB2	4AC2	4AH5-B	6D	4AH6-D	2DY2
4AB3	4AC2	4AH5-B	4DA2	4AH6-C	9DY2
4AB2	2AC2	4AH5-B	2DA2	4AHG-C	9DY3
4AB3	2AC2			4AH6-C	6DY2
2AB2	2AC2	4AH6-D	4DE2	4AH6-C	6DY3
2AB3	2AC2	4AH6-C	4DE2	4AH6-C	4DY2
		4AH5-B	4DE2	4AH6-C	2DY2
4AB2	4SF2	4AH6-D	2DE2	4AH5-B	9DY2
4AB3	4SF2	4AH6-C	2DE2	4AH5-B	9DY3
		4AH5-B	2DE2	4AH5-B	6DY2
4AH6-D	4AC2			4AH5-B	6DY3
4AH6-D	2AC2	4AH6-D	4DX3	4AH5-B	4DY2
4AH6-C	4AC2	4AH6-C	4DX3	4AH5-B	2DY2
4AH6-C	2AC2	4AH5-B	4DX3		
4AH5-B	4AC2	4AH6-D	4DX2	4AH6-D	9EA2
4AH5-B	2AC2	4AH6-C	4DX2	4AH6-D	9EA3
		4AH5-B	4DX2	4AH6-D	6EA2-E
4AH6-D	2CT3			4AH6-D	6EA2-M
				4AH6-D	4EA2-E
4AH6-C	2CT3			4AH6-D	4EA2-M
4AH5-B	2CT3			4AH6-C	9EA2
4AH6-D	6DA2			4AJ7-C	9EA3
4AH6-D	4DA2	4AH6-D	9DY2	4AH6-C	6EA2-E
4AH6-D	2DA2	4AH6-D	9DY3		
4AH6-C	6DA2	4AH6-D	6DY2		
4AH6-C	4DA2	4AH6-D	6DY3		
4AH6-C	2DA2	4AH6-D	4DY2		

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4AH6-C	6EA2-M	4AH6-D	6GS2	4AH6-D	2LO2
4AH6-C	4EA2-E	4AH6-D	4GS2	4AH6-C	2LO3
4AH6-C	4EA2-M	4AH6-D	2GS3	4AH6-C	2LO2
4AH5-B	9EA2	4AH6-D	2GS2	4AH5-B	2LO3
4AH5-B	9EA3	4AH6-C	6GS2	4AH5-B	2LO2
4AH5-B	6EA2-E	4AH6-C	4GS2		
4AH5-B	6EA2-M	4AH6-C	2GS3	4AH6-B	4LR2
4AH5-B	4EA2-E	4AH6-C	2GS2	4AH6-D	2LR2
4AH5-B	4EA2-M	4AH5-B	6GS2	4AH6-C	4LR2
		4AH5-B	4GS2	4AH6-C	2LR2
4AH6-D	8EB2-E	4AH5-B	2GS3	4AH5-B	4LR2
4AH6-D	8EB2-M	4AH5-B	2GS2	4AH5-B	2LR2
4AH6-D	6EB2-E				
4AH6-D	6EB2-M	4AH6-D	2LA2	4AH6-D	6LS2
4AH6-C	8EB2-E	4AH6-C	2LA2	4AH6-D	4LS2
4AH6-C	8EB2-M	4AH5-B	2LA2	4AH6-D	2LS2
4AH6-C	6EB2-E			4AH6-D	2LS3
4AH6-C	6EB2-M	4AH6-D	2LB2	4AH6-C	6LS2
4AH5-B	8EB2-E	4AHG-C	2LB2	4AH6-C	4LS2
4AH5-B	8EB2-M	4AH5-B	2LB2	4AH6-C	2LS2
4AH5-B	6EB2-E			4AH6-C	2LS3
4AH5-B	6EB2-M	4AH6-D	2LC2	4AH5-B	6LS2
		4AH6-C	2LC2	4AH5-B	4LS2
4AH6-D	2GO2	4AH5-B	2LC2	4AH5-B	2LS2
4AH6-D	2GO3				
4AH6-C	2GO2				
4AH6-C	2GO2			4AH5-B	2LS3
4AH5-B	2GO2	4AH6-D	2LO3		
4AH5-B	2GO3				

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4AH6-D	4NO2	4AH6-D	4TF2	2CT3	8EB2-E
4AH6-D	2NO2	4AJ7-D	2TF2	2CT3	8EB2-M
4AH6-C	4NO2	4AH6-C	4TF2		
4AH6-C	2NO2	4AH6-C	2TF2	2CT3	6482-E
4AH5-B	4NO2	4AH5-B	4TF2	2CT3	6EB2-M
4AH5-B	2NO2	4AH5-B	2TF2		
				2CT3	6EB3-E
		2CT3	4DS9- [1]		
				2CT3	8EC2
		2CT3	6DX2		
		2CT3	4DX2	2CT3	4SF2
		2CTS	4DX3	2CT3	4SF3
4AH6-D	4PR2	2CT3	9DY3	6DA2	6DA2
4AH6-D	2PR2	2CT3	6DY3	6DA2	4DA2
4AH6-C	4PR2	2CT3	9DT2	4DA2	4DA2
4AH6-C	2PR2	2CT3	6DY2		
4AH5-B	4PR2	2CT3	4DY3	4DB2	6DA2
4AH5-B	2PR2	2CT3	2DY2	4DB2	4DA2
				4DB2	2DA2
4AH6-D	4RV2-T	2CT3	9EA3	2DB3	2DA2
4AH6-D	2RV2-T	2CT3	9EA2	2DB2	2DA2
4AH6-C	4RV2-T	2CT3	6EA2-E	4DB2	4DB2
4AH6-C	2RV2-T	2CT3	6EA2-M	4DB2	4NO2
4AH5-B	4TV2-T	2CT3	4EA2-E	4DB2	2NO2
4AH5-B	2RV2-T	2CT3	4EA2-M	2DB2	2NO2
4AH6-D	4SF2			4DB2	4PR2
4AH6-C	4SF2			4DB2	2PR2
4AH5-B	4SF2			2DB2	2PR2
4AH6-D	4SF3				
4AH6-C	4SF3				
4AH5-B	4SF3				

[1] See 8.3.3 preceding for explanation.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs
4DD3	4DE2	4DS8-[1]	9DY3	
4DD3	2DE2	4DS8-[1]	9DY2	
		4DS8-[1]	6DY3	
4DS8-[1]	4AC2	4DS8-[1]	6DY2	
4DS8-[1]	2AC2	4DS8-[1]	4DY2	
		4DS8-[1]	2DY2	
4DS8-[1]	6DA2			
4DS8-[1]	4DA2			
4DS8-[1]	2DA2	4DS8-[1]	9EA2	
		4DS8-[1]	9EA3	
4DS8-[1]	4DE2	4DS8-[1]	6EA2-E	
4DS8-[1]	EDE2	4DS8-[1]	6EA2-M	
		4DS8-[1]	4EA2-E	
4DS8-[1]	4DX3	4DS8-[1]	4EA2-E	
4DS8-[1]	4DX2			

[1] See 8.3.3 preceding for explanation.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4DS8- [1]	8EB2-E	4DS8- [1]	4NO2	4DX3	9DY2
4DS8- [1]	8EB2-M	4DS8- [1]	2NO2	4DX2	6DY3
4DS8- [1]	6EB2-E			4DX3	6DY3
4DS8- [1]	6EB2-M	4DS8- [1]	4PR2	4DX2	6DY2
		4DS8- [1]	2PR2	4DX3	6DY2
4DS8- [1]	2GO2			4DX2	4DY2
4DS8- [1]	2GO3	4DS8- [1]	4RV2-T	4DX3	4DY2
4DS8- [1]	6GS2	4DS8- [1]	2RV2-T	4DX2	2DY2
4DS8- [1]	4GS2			4DX3	2DY2
4DS8- [1]	2GS2	4DS8- [1]	4SF2		
4DS8- [1]	2GS3	4DS8- [1]	4SF3	6DX2	9EA3
				6DX2	9EA2
4DS8- [1]	2LA2	4DS8- [1]	4TF2	6DX2	6EA2-E
		4DS8- [1]	2TF2	6DX2	6EA2-M
4DS8- [1]	2LB2			6DX2	4EA2-E
		4DX2	4DX2	6DX2	4EA2-M
8DS8- [1]	2LC2	4DX3	4DX2	4DX2	9EA2
		4DX3	4DX3	4DX3	9EA2
4DS8- [1]	2LO2			4DX2	9EA3
4DS8- [1]	2LO3	6DX2	9DY3	4DX3	9EA3
		6DX2	9DY2	4DX2	6EA2-E
4DS8- [1]	4LR2	6DX2	6DY3	4DX3	6EA2-E
4DS8- [1]	2LR2	6DX2	6DY2	4DX2	6EA2-M
		6DX2	4DY2	4DX3	6EA2-M
4DS8- [1]	6LS2	6DX2	2DY2	4DX2	4EA2-E
4DS8- [1]	4LS2	4DX2	9DY3	4DX3	4EA2-E
4DS8- [1]	2LS2	4DX3	9DY3	4DX2	4EA2-M
4DS8- [1]	2LS3	4DX2	9DY2	4DX3	4EA2-M

[1] See 8.3.3 preceding for explanation.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
6DX2	8EB2-E	4DX2	6LS2	9DY2	6DY3
6DX2	8EB2-M	4DX3	6LS2	9DY3	4DY2
6DX2	6EB2-E	4DX3	4LS2	9DY2	4DY2
6DX2	6EB2-M	4DX2	4LS2	9DY2	2DY2
4DX2	8EB2-E	4DX3	2LS3	9DY3	2DY2
4DX2	8EB2-M	4DX2	2LS3	6DY3	6DY3
4DX3	8EB2-E	4DX3	2LS2	6DY3	6DY2
4DX3	8EB2-M	4DX2	2LS2	6DY2	6DY2
4DX2	6EB2-E	2DX3	2LS2	6DY3	4DY2
4DX2	6EB2-M	2DX3	2LS3	6DY3	2DY2
4DX3	6E82-E			6DY2	4DY2
4DX3	6EB2-M	4DX3	4RV2-T	6DY2	2DY2
		4DX2	4RV2-T	4DY2	2DY2
4DX2	2LA2	4DX3	2RV2-T	4DY2	4DY2
4DX3	2LA2	4DX2	2RV2-T		
2DX3	2LA2			6EA2-E	4AC2
		6DX2	4SF2	6EA2-M	4AC2
4DX2	2LB2	4DX2	4SF2	6EA2-E	2AC2
4DX3	2LB2	4DX3	4SF2	6EA2-M	2AC2
2DX3	2LB2	4DX2	4SF3		
		4DX3	4SF3	9EA2	9DY3
4DX2	2LC2			9EA2	9DY2
4DX3	2LC2	9DY3	9DY3	9EA2	6DY3
2DX3	2LC2	9DY3	9DY2	9EA2	6DY2
		9DY2	9DY2	9EA2	4DY2
4DX2	2LO3	9DY3	6DY3	9EA2	2DY2
4DX3	2LO3	9DY3	6DY2	9EA3	9DY3
2DX3	2LO3	9DY2	6DY2		

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
9EA3	9DY2	4EA2-M	9DY2	4EA3-E	9EA2
9EA3	6DY3	4EA2-M	6DY3	4EA3-E	9EA3
9EA3	6DY2	4EA2-M	6DY2	4EA2-M	4EA2-M
9EA3	4DY2	4EA2-M	4DY2		
9EA3	2DY2	4EA2-M	2DY2	9EA2	8EB2-E
6EA2-E	9DY3			9EA2	8EB2-M
6EA2-E	9DY2	9EA2	9EA2	9EA2	6EB2-E
6EA2-E	6DY3	9EA2	9EA3	9EA2	6EB2-M
6EA2-E	6DY2	9EA2	6EA2-E	9EA3	8EB2-E
6EA2-E	4DY2	9EA2	6EA2-M	9EA3	8E82-M
6EA2-E	2DY2	9EA2	4EA2-E	9EA3	6EB2-E
6EA2-M	9DY3	9EA2	4EA2-M	9EA3	6EB2-M
6EA2-M	9DY2	9EA3	9EA3	6EA2-E	8EB2-E
6EA2-M	6DY3	9EA3	6EA2-E	6EA2-E	8EB2-M
6EA2-M	6DY2	9EA3	6EA2-M	6EA2-E	6EB2-E
6EA2-M	4DY2	9EA3	4EA2-E	6EA2-E	6EB2-M
6EA2-M	2DY2	9EA3	4EA2-M	6EA2-M	8EB2-E
4EA2-E	9DY3	6EA2-E	6EA2-E	6EA2-M	8E82-M
4EA2-E	9DY2	6EA2-E	6EA2-M	6EA2-M	6EB2-E
4EA3-E	9DY3	6EA2-M	6EA2-M	6EA2-M	6EB2-M
4EA3-E	9DY2	6EA2-E	4EA2-E	4EA2-E	8EB2-E
4EA3-E	6DY3	6EA2-E	4EA2-M	4EA2-E	8EB2-M
4EA3-E	6DY2	6EA2-M	4EA2-E	4EA3-E	8EB2-E
4EA3-E	4DY2	6EA2-M	4EA2-M	4EA3-E	8E82-M
4EA3-E	2DY2	4EA2-E	4EA2-E	4EA2-E	6EB2-E
4EA2-E	6DY3	4EA3-E	6EA2-E	4EA2-E	6EB2-M
4EA2-E	6DY2	4EA3-E	6EA2-M	4EA3-E	6EB2-E
4EA2-E	4DY2	4EA3-E	4EA2-E	4EA3-E	6EB2-M
4EA2-E	2DY2	4EA3-E	4EA2-M	4EA2-M	8EB2-E
4EA2-M	9DY3	4EA2-E	4EA2-M		

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4EA2-M	8EB2-M	9EA3	43F2	6EB3-E	9DY2
4EA2-M	6EB2-E	9EA2	4SF2	6EB3-E	9DY3
4EA2-M	6EB2-M	6EA2-E	4SF3	6EB2-E	6DY2
		6EA2-M	4SF3	6EB3-E	6DY2
6EA2-E	2LA2	6EA2-E	4SF2	6EB2-E	6DY3
6EA2-M	2LA2	6EA2-M	4SF2	6EB3-E	6DY3
		4EA3-E	4SF2	6EB2-E	4DY2
6EA2-E	2LB2	4EA2-E	4SF2	6EB3-E	2DY2
6EA2-M	2LB2	4EA2-M	4SF2	6EB3-E	4DY2
				6EB2-M	9DY2
6EA2-E	2LC2	8EB2-E	4AC2	6EB2-M	9DY3
6EA2-M	2LC2	8EB2-M	4AC2	6EB2-M	6DY2
		8EB2-E	2AC2	6EB2-M	6DY3
6EA2-E	2LO3	8EB2-M	2AC2	6EB2-M	4DY2
6EA2-M	2LO3			6EB2-E	2DY2
		8EB2-E	9DY3	6EB2-M	2DY2
6EA2-E	6LS2	8EB2-E	9DY2		
6EA2-M	6LS2	8EB2-E	6DY3	6EB3-E	9EA2
6EA2-E	4LS2	8EB2-E	6DY2	6EB3-E	9EA3
6EA2-M	4LS2	8EB2-E	4DY2	6EB3-E	6EA2-E
6EA2-E	2LS2	8EB2-E	2DY2	6EB3-E	6EA2-M
6EA2-M	2LS2	8EB2-M	9DY3	6EB3-E	4EA2-E
6EA2-E	2LS3	8EB2-M	9DY2	6EB3-E	4EA2-M
6EA2-M	2LS3	8EB2-M	6DY3		
		8EB2-M	6DY2	8EB2-E	8EB2-E
6EA2-E	4RV2-T	8EB2-M	4DY2	8EB2-E	8EB2-M
6EA2-M	4RV2-T	8EB2-M	2DY2	8EB2-M	8EB2-M
6EA2-E	2RV2-T	6EB2-E	9DY2	8EB2-E	6EB2-E
6EA2-M	2RV2-T	6EB2-E	9DY3	8EB2-E	6EB2-M

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
8EB2-M	6EB2-E	8EB2-E	4RV2-T	8EC2	8EB2-M
8EB2-M	6EB2-M	8EB2-M	4RV2-T	8EC2	6EB2-E
6EB2-E	6EB2-E	8EB2-E	2RV2-T	8EC2	6EB2-M
6EB2-E	6EB2-M	8EB2-M	2RV2-T		
6EB3-E	8EB2-E			8EC2	4SF2
6EB3-E	8EB2-M	8EB2-E	4SF2	6EX2-B	2GO3
6EB2-M	6EB2-M	8EB2-M	4SF2	6EX2-A	6GS2
		8EB2-E	4SF3	6EX2-A	4GS2
8EB2-E	2LA2	8EB2-M	4SF3	6EX2-A	2GS2
8EB2-M	2LA2	6EB3-E	4SF2	6EX2-A	2GS3
		6EB2-E	4SF2		
8EB2-E	2LB2	6EB2-M	4SF2	6EX2-B	2LA2
8EB2-M	2LB2				
		8EC2	9DY2	6EX2-B	2LB2
8EB2-E	2LC2	8EC2	9DY3		
8EB2-M	2LC2	8EC2	6DY2	6EX2-B	2LC2
		84C2	6DY3		
8EB2-E	2LO3	8EC2	4DY2	6EX2-B	2LO2
8EB2-M	2LO3	8EC2	2DY2	6EX2-B	2LO3
8EB2-E	6LS2	8EC2	9EA2	6EX2-B	4LR2
8EB2-M	6LS2	8EC2	9EA3	6EX2-B	2LR2
8EB2-E	4LS2	8EC2	6EA2-E		
8EB2-M	4LS2	8EC2	6EA2-M	6EX2-A	6LS2
8EB2-E	2LS2	8EC2	4EA2-E	6EX2-A	4LS2
8EB2-M	2LS2	8EC2	4EA2-M	6EX2-A	2LS2
8EB2-E	2LS3			6EX2-A	2LS3
8EB2-M	2LS3	8EC2	8EB2-E		

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
6EX2-A	4SF2	6LO2	6LS2	4LR2	4SF2
6EX2-B	4SF2	6LO2	4LS2	4LR3	4SF2
		6LO2	2LS2		
6GO2	6GS2	6LO2	2LS3	6LS2	2LA2
6GO2	4GS2	4LO2	6LS2	4LS2	2LA2
6GO2	2GS2	4LO2	4LS2	4LS3	2LA2
6GO2	2GS3	4LO3	6LS2	2LS2	2LA2
4GO2	6GS2	4LO3	4LS2	2LS3	2LA2
4GO3	6GS2	4LO3	2LS3		
4GO2	4GS2	4LO3	2LS2	6LS2	2LB2
4GO3	4GS2	4LO2	2LS2	4LS2	2LB2
4GO2	2GS2	4LO2	2LS3	4LS3	2LB2
4GO2	2GS3	2LO3	2LS3	2LS2	2LB2
4GO3	2GS2	2LO3	2LS2	2LS3	2LB2
4GO3	2GS3	2LO2	2LS2		
2GO2	2GS2	2LO2	2LS3	6LS2	2LC2
2GO3	2GS2			4LS2	2LC2
2GO2	2GS3	6LO2	4SF2	4LS3	2LC2
2GO3	2GS3	4LO2	4SF2	2LS2	2LC2
		4LO3	4SF2	2LS3	2LC2
6GO2	4SF2				
4GO2	4SF2	4LR2	4LR1	6LS2	2LO3
4GO3	4SF2	4LR3	2LR2	6LS2	2LO2
		4LR2	4LR2	4LS2	2LO2
6GS2	2GO2	4LR2	2LR2	4LS2	2LO3
4GS2	2GO2	2LR2	2LR2	4LS3	2LO2
4GS3	2GO2	2LR3	2LR2	4LS3	2LO3
4GS2	2GO3				

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
6LS2	4SF2	4SF3	9DY2	4SF3	2LA2
4LS3	4SF2	4SF2	9DY3		
		4SF3	6DY3	4SF2	2LB2
4NO2	6DA2	4SF2	6DY3	4SF3	2LB2
4NO2	4DA2	4SF2	6DY3		
4NO2	2DA2	4SF3	6DY2	4SF2	2LC2
2NO2	2DA2	4SF2	4DY2	4SF3	2LC2
		4SF3	4DY2		
4NO2	4DE2	4SF3	2DY2	4SF2	2LO3
4NO2	2DE2	4SF2	2DY2	4SF3	2LO3
4NO2	4NO2	4SF3	9EA2	4SF2	2LR2
4NO2	2NO2	4SF3	9EA3	4SF3	4LR2
2NO2	2NO2	4SF3	4EA2-E	4SF3	2LR2
2NO3	2NO2	4SF3	4EA2-M		
				4SF3	6LS2
2NO3	2PR2	4SF3	6EB2-E	4SF2	4LS2
		4SF3	6EB2-M	4SF3	4LS2
4RV2-0	4RV2-T	4SF3	2GO3	4SF2	2LS2
4RV2-0	2RV2-T	4SF3	6GS2	4SF2	2LS3
4RV2-0	2RV2-T	4SF2	6GS2	4SF3	2LS2
		4SF2	6GS2	4SF3	2LS3
4RV2-0	4SF2	4SF3	4GS2		
		4SF2	2GS2	4SF3	4RV2-T
4SF2	4AC2	4SF2	2GS3	4SF2	4RV2-T
4SF2	2AC2	4SF3	2GS2	4SF2	2RV2-T
		4SF3	2GS3	4SF3	2RV2-T
4SF3	9DY3				
4SF2	9DY2	4SF2	2LA2	4SF3	4SF3

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs	
4SF3	4SF2
4SF2	4SF2
4TF2	4TF2
4TF2	2TF2
2TF3	2TF2

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(D) Program Audio

Compatible CIs		Compatible CIs		Compatible CIs	
4AH5-B	2PG1-3	4AH6-D	2PG1-3	4DS8-I5F	2PG2-5
4AH5-B	2PG1-5	4AH6-D	2PG1-5	4DS8-I5G	2PG2-8
4AH5-B	2PG1-8	4AH6-D	2PG1-8	4DS8-15H	2PG2-1
4AH5-B	2PG2-3	4AH6-D	2PG2-3	2PG2-1	2PG1-1
4AH5-B	2PG2-5	4AH6-D	2PG2-5	2PG2-1	2PG2-I
4AH5-B	2PG2-8	4AH6-D	2PG2-8	2PG2-3	2PGI-3
4AH6-C	2PG1-3	4DS8-15E	2PG1-3	2PG2-3	2PG2-3
4AH6-C	2PG1-5	4DS8-15F	2PG1-5	2PG2-5	2PG1-5
4AH6-C	2PG1-8	4DS8-15G	2PG1-8	2PG2-5	2PG2-5
4AH6-C	2PG2-3	4DS8-15H	2PG1-1	2PG2-8	2PG1-8
8AH6-C	2PG2-5	4DS8-15E	2PG2-3	2PG2-8	2PG2-8

(E) Video

Compatible CIs		Compatible CIs	
2TV6-1	4TV6-15	4TV7-5	4TV6-5
	4TV7-15		4TV7-5
2TV6-2	6TV6-15	4TV7-15	4TV6-15
	6TV7-15		4TV7-15
2TV7-1	4TV6-15	6TV6-5	6TV6-5
	4TV7-15		6TV7-5
2TV7-2	6TV6-15	6TV6-15	6TV6-15
	6TV7-15		6TV7-15
4TV6-5	4TV6-5	6TV7-5	6TV6-5
		4TV7-5	6TV7-5
4TV6-15	4TV6-15	6TV7-15	6TV6-15
	4TV7-15		6TV7-15

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(F) Wideband Analog

Compatible CIs		Compatible CIs		Compatible CIs	
4AH5-B	4AH5-B			4WD5-I	4WA5-1
4AH6-C	4AH5-B			4WD5-2	4WA5-I
4AH6-C	4AH6-C	4AH6-D	4AH6-D	4WD5-3	4WA5-2
	4AH6-D	4AH5-B	4AH5-B	4DS8-15	
	4AH6-D	4AH6-C	4AH5-B	4DU8-A,B, or C	
	4AH6-C	4DU8-A,B, or C			
		4AH6-D	4DU8-A,B, or C		

(G) Wideband Data

Compatible CIs		Compatible CIs		Compatible CIs	
2TV6-1	4TV6-15	4TV7-5	4TV6-5		
8WB5-18S	12WC6-18	8WB5-23A	1OWC6-23	8WB5-5OA	1OWC6-50
8WB5-19A	1OWC6-19	8WB5-23S	12W6-23S	8WB5-5OS	12WB6-50
8WB5-19S	12WC6-19	8WB5-4OS	12W6-40		

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(H) Digital Data

Compatible CIs		Compatible CIs		Compatible CIs	
4DS8-15	4DU8-15 [1]	4DS8-15	6DU5-56	4DU5-96	4DU5-96
4DS8-15	4DU8-24	4DS8-15	6DU5-96	6DU5-24	6DU5-24
4DS8-15	4DU8-48	4DU5-24	4DU5-24	6DU5-48	6DU5-48
4DS8-15	4DU8-56	4DU5-48	4DU5-48	6DU5-56	6DU5-56
4DS8-15	6DU5-96	4DU8-56	4DU5-56	6DU5-96	6DU5-96
4DS8-I5	6DU5-24				

[1] Available only as a cross connect of two digital circuits at appropriate digital speeds at a Telephone Company hub.

(continued)

ACCESS SERVICE

8. Interface Groups, Transmission Specifications, and Channel Codes (Cont'd)

8.3 Channel Interface and Network Channel Codes (Cont'd)

8.3.5 Compatible Channel Interfaces (Cont'd)

(I) High Capacity

Compatible CIs	
4DSO-63	4DSO-63
4DSO-63	6DU8-A,B or C
4DSO-63	4DU8-A,B or C
4DS6-27	4DS6-27
4DS6-27	6DU8-A,B or C
4DS6-27	4DU8-A,B or C
4DS6-44	4DS6-44
4DS6-44	6DU8-A,B or C
4DS6-44	4DU8-A,B or C
4DS8-15	4DS8-15 [1]
4DS8-15	6DU8-B
4DS8-15	4DU8-8
4DS8-I5J	6DU8-A
4DS8-15J	4DU8-A
4DS8-15K	6DU8-B
4DS8-I5K	4DU8-B
4DS8-15K	6DU8-C
4DS8-15K	4D78-C
4DS9-31	4DS9-31
4DS9-31	6DU8-A,B or C
4DS9-4DU8-A,B or C	
4DU9-A,B or C	4DU8-A,B or C

[1] Available only as a cross connect of two individual circuits of 1.544 Mbps facilities at a Telephone Company hub.

(continued)

ACCESS SERVICE

9. Special Federal Government Access Services

9.1 General

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

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

(continued)

ACCESS SERVICE

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

9.2 Emergency Conditions

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

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

(continued)

ACCESS SERVICE

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

9.3 Intervals to Provide Service

Services provided under the provisions of this section of the tariff are provided on an individual case basis. Therefore, orders for such service shall be placed under the Negotiated Interval provisions set forth in 4.1.7 preceding.

9.4 Safeguarding of Service

9.4.1 Facility Availability

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

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

9.5 Federal Government Regulations

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

(continued)

ACCESS SERVICE

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

9.6 Service Offerings to the Federal Government

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

9.6.1 Type and Description

(A) Voice Grade Special Access Services

(1) Voice Grade Secure Communications Type I

Approximate bandwidth of 10-50,000 Hertz. Furnished for two-point secure communications on two-wire or four-wire metallic facilities between an IC premises and an end user's premises. Services are conditioned as follows:

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

15 dB at 10 Hz
13 dB at 100 Hz
9 dB at 1,000 Hz
20 dB at 10,000 Hz
30 dB at 50,000 Hz

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

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

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

(continued)

ACCESS SERVICE

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

9.6 Service Offerings to the Federal Government (Cont'd)

9.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(1) Voice Grade Secure Communications Type I (Cont'd)

The net loss of the conditioned service (with or without additional conditioning) shall not vary by more than four dB at 1,000 Hz from the levels specified above. Voice frequency signaling or supervisory tones can be transmitted.

(2) Voice Grade Secure Communications Type II

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between an IC premises on an end user's premises and an end user's premises. Services are conditioned as follows:

G-1 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same as Voice Grade Secure Communications Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(3) Voice Grade Secure Communications Type III

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between an IC premises switch and an end user's premises. Services are conditioned as follows:

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

(continued)

ACCESS SERVICE

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

9.6 Service Offerings to the Federal Government (Cont'd)

9.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(4) Voice Grade Secure Communications Type IV

Approximate bandwidth 10-50,000 HZ. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between two IC premises switches. Services are conditioned as follows:

G-3 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same in both directions of transmission as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(B) Wideband Digital Special Access Service

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

(1) Wideband Secure Communications Type I

For transmission at the rate of 18,750 bits per second.

(2) Wideband Secure Communications Type II

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

(3) Wideband Secure Communications Type III

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

(continued)

ACCESS SERVICE

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

9.6 Service Offerings to the Federal Government (Cont'd)

9.6.1 Type and Description (Cont'd)

(B) Wideband Digital Special Access Service (Cont'd)

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

(C) Special Routing Access Service

Special Routing Access Service is furnished only to AT&T Communications (AT&T-C) for an agency or branch of the Federal Government. This service provides the customer's end users the ability to originate and terminate calls to or from the customer's premises utilizing a Special Routing Plan.

This service is an optional service which operates in conjunction with Trunk Side Premium Access Service furnished to AT&T-C under other provisions of this tariff.

9.6.2 Mileage Application

Mileage, when used for rate application between two customer premises, shall be determined by the V & H Coordinates information as set forth in Section 15 of this tariff and administered as set forth in 6.5.5 preceding.

(continued)

ACCESS SERVICE

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

9.6 Service Offerings to the Federal Government (Cont'd)

9.6.3 Rates and Charges

(A) Voice Grade Special Access Service

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

Voice Grade Secure Communications	Monthly Rates	Nonrecurring Charges	Termination Charges
Type I, each			
T-3 Conditioning		ICB rates and charges apply	
Additional Conditioning, per service termination		ICB rates and charges apply	
Type II, each			
G-I Conditioning,		ICB rates and charges apply	
Type III, each			
G-2 Conditioning		ICB rates and charges apply	
Additional Conditioning, per service termination		ICB rates and charges apply	
Type VI, each			
G-3 Conditioning		ICB rates and charges apply	
Additional Conditioning, per service termination		ICB rates and charges apply	

(continued)

ACCESS SERVICE

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

9.6 Service Offerings to the Federal Government (Cont'd)

9.6.3 Rates and Charges (Cont'd)

(B) Wideband Digital Special Access Service

Wideband Secure Communications	Monthly Rates	Nonrecurring Charges	Termination Charges
Type I, each		ICB rates and charges apply	
Type II, each		ICB rates and charges apply	
Type III, each		ICB rates and charges apply	

(C) Move Charges

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

(2) When service with a termination charge associated with it, as set forth in (A) and (B) preceding, is moved and is reinstalled at a new location, the customer may elect:

- to pay the unexpired portion of the termination charge for the service, if any, with the application of nonrecurring charge and the establishment of a new termination charge for such service at the new location, or

- to continue service subject to the unexpired portion of the termination charge, if any, and pay the estimated costs of moving such service, provided that the customer requests these charges be quoted prior to ordering the service move. Charges for moving such service will be based on estimated costs attributable to the move.

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

(continued)

ACCESS SERVICE

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

9.6 Service Offerings to the Federal Government (Cont'd)

9.6.3 Rates and Charges (Cont'd)

(D) Special Routing Access Services

The following rates and charges are in addition to all other rates and charges that may be applicable for other services that may be furnished under the provisions of this tariff to operate in conjunction with this service:

		Monthly Rates	Nonrecurring Charges
(1)	Special Routing Access Service Special Routing Plan Setup, per Switching System	-	$ 200.00
(2)	Special Routing Access Service Trunk Group Setup, per End Office or Tandem Office, Switching System per occurrence	-	1,000.00
(3)	Special Routing Access Service Mode Selection (Active or Deactive), per Switching System, per occurrence	-	200.00
(4)	Special Routing Access Service Maintenance and Administration, per Switching System, per month [1]	$ 150.00	-

[1] This rate applies only to Switching Systems with this feature.

(continued)

ACCESS SERVICE

10. Special Facilities Routing of Access Services

10.1 Description of Special Facilities Routing of Access Services

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

10.1.1 Diversity

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

10.1.2 Avoidance

A service must be provided on a route, which avoids specified geographical locations. (T)

10.1.3 Cable-Only Facilities

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

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

Avoidance and Diversity are available on Switched Access Service as set forth in 5. preceding; Metallic and Telegraph Grade, Voice Grade and Wideband Analog Special Access Services as set forth in 6.3, 6.4, 6.5 and 6.8 preceding and Special Federal Government Access Services as set forth in 9.6 preceding. Cable-Only Facilities are available for Switched Access Service as set forth in 6. preceding; Voice Grade Special Access Services as set forth in 6.5 preceding and Special Federal Government Access Services as set forth in 9.6 preceding.

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

(continued)

ACCESS SERVICE

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

10.1 Description of Special Facilities Routing of Access Services (Cont'd)

10.1.3 Cable-Only Facilities (Cont'd)

The rates and charges for Special Facilities Routing of Access Services as set forth in 10.2 following are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

10.2. Rates and Charges for Special Facilities Routing of Access Services

The rates and charges for Special Facilities Routing of Access Services are as follows:

10.2.1 Diversity

For each service provided in accordance with 10.1.1 preceding, the rates and charges will be developed on an individual case basis.

10.2.2 Avoidance

For each service provided in accordance with 10.1.2 preceding, the rates and charges will be developed on an individual case basis.

(continued)

ACCESS SERVICE

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

10.1 Description of Special Facilities Routing of Access Services (Cont'd)

10.2. Rates and Charges for Special Facilities Routing of Access Services (Cont'd)

10.2.3 Diversity and Avoidance Combined

For each service provided in accordance with 10.1.1 and 10.1.2 preceding, combined, the rates and charges will be developed on an individual case basis.

10.2.4 Cable-Only Facilities

For each service provided in accordance with 10.1.3 preceding, the rates and charges will be developed on an individual case basis.

(continued)

ACCESS SERVICE

11. Specialized Service or Arrangements

11.1 General

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

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

11.2 Rates and Charges

Rates and charges and additional regulations if applicable, for specialized service or arrangements provided on an individual case basis:

(continued)

ACCESS SERVICE

12. Exceptions to Access Service Offerings

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

(Paragraphs 13.1 through 13.5 following are reserved for future listing. In the meantime, in planning an end-to-end service, the customer should contact the Telephone Company in each customer premises city to assure itself that all of the service or service components required for a given customer service are currently available).

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

(Reserved for future use).

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

(Reserved for future use).

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

(Reserved for future use).

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

(Reserved for future use).

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

(Reserved for future use).

(continued)

ACCESS SERVICE

13. Special Construction

13.1 Application of Tariff

This section contains regulations, rates, charges, and liabilities applicable for the special construction of intrastate facilities provided by the Company.

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

13.2 Regulations

13.2.1 Filing of Charges

Rates, charges, and liabilities for special construction to provide facilities for use for one month or more are filed in Section 13.3 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 tariff.

13.2.2 Ownership of Facilities

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

13.2.3 Interval to Provide Facilities

Based on available information and the type of service ordered, the 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 Company, a new completion date will be established, and the customer will be notified.

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.4 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 tariff. Charges for the portion of the construction used to provide intrastate service shall be in accordance with the appropriate intrastate tariff.

13.2.5 Payments for Special Construction

13.2.5.1 Payment of Charges

All bills associated with special construction charges are due in accordance with the regulations in the appropriate service tariff.

13.2.5.2 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.

13.2.5.3 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 13.2.6.4(A)(4) following, the credit allowance will be terminated on the seventh calendar day after the Company has provided the customer with written notification of the need for replacement. The credit allowance will resume on the day after the Company receives written authorization for the replacement from the customer.

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.6 Liabilities and Charges for Special Construction

13.2.6.1 General

This section describes the various charges and liabilities that may apply when the 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 Company prior to the start of construction.

13.2.6.2 Conditions Requiring Special Construction

Special construction is required when (1) facilities are not available to meet an order for service, and (2) the Telephone Company constructs facilities, and (3) one or more of the following conditions exists:

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

13.2.6.3 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.

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.

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.6 Liabilities and Charges for Special Construction (Cont'd)

13.2.6.4 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) Optional Payment

An optional payment charge may be included in the nonrecurring charge in association with a type of facility or route other than that which the Company would normally use in furnishing the requested service if lower recurring monthly charges are desired for the specially constructed facilities. This charge is equal to the excess installed cost or the total nonrecoverable cost, whichever is less. This election must be made in writing before special construction starts. If this election is coupled with the actual cost option, the optional payment charge will reflect the actual cost of the specially constructed facilities.

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.6 Liabilities and Charges for Special Construction (Cont'd)

13.2.6.4 Types of Liabilities and Charges (Cont'd)

(A) Nonrecurring Charge (Cont'd)

(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.

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.6 Liabilities and Charges for Special Construction (Cont'd)

13.2.6.4 Types of Liabilities and Charges (Cont'd)

(B) Maximum Termination Liability and Termination Charge

A Maximum Termination Liability is equal to the non-recoverable costs associated with specially constructed facilities and is the maximum amount which could be applied as a Termination Charge if all specially constructed facilities were discontinued before the Maximum Termination Liability expires.

The liability period is equal to the average life of the account associated with the specially constructed facilities. The liability period is generally expressed in terms of an effective and expiration date.

The Maximum Termination Liability is filed with the initial tariff filing in decreasing amounts at ten-year intervals over the average account life of the facilities. In the event that the average account life of the facilities is not an even multiple of ten, the last increment will reflect the appropriate number of years remaining.

Example Illustrating a 27-Year Average Account Life:

Maximum Termination Liability	Effective Date	Expiration Date
$ 10,000	6/1/84	6/1/94
7,000	6/1/94	6/1/04
3,000	6/1/04	6/1/11

Prior to the expiration of each liability period, the customer has the option to (A) terminate the special construction case and pay the appropriate charges, or (B) extend the use of the specially constructed facilities for the new liability period.

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.6 Liabilities and Charges for Special Construction (Cont'd)

13.2.6.4 Types of Liabilities and Charges (Cont'd)

(B) Maximum Termination Liability and Termination Charge (Cont'd)

The Telephone Company will notify the customer six months in advance of the expiration date of each ten-year liability period. The customer must provide the Telephone Company with written notification at least 30 days prior to the expiration of the liability period if termination is elected. Failure to do so will result in an automatic extension of the special construction case to the next liability period at the filed Maximum Termination Liability amount.

A Termination Charge may apply when all services using specially constructed facilities which have a tariffed Maximum Termination Liability are discontinued prior to the expiration of the liability period. The charge reflects the unamortized portion of the nonrecoverable costs at the time of termination, adjusted for net salvage and possible reuse. Administrative costs associated with the specific case of special construction and any cost for restoring a location to its original condition are also included. A Termination Charge may never exceed the filed Maximum Termination Liability.

A partial termination of specially constructed facilities will be provided, at the election of the customer. The amount of the Termination Charge associated with such partial termination is determined by multiplying the termination charge which would result if all services using the specially constructed facilities were discontinued, at the time partial termination is elected, by the percentage of specially constructed facilities to be partially terminated. A tariff filing will be made following a partial termination to list remaining Maximum Termination Liability amounts and the number of specially constructed facilities the customer will remain liable for.

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.6 Liabilities and Charges for Special Construction (Cont'd)

13.2.6.4 Types of Liabilities and Charges (Cont'd)

(B) Maximum Termination Liability and Termination Charge (Cont'd)

Example:

A customer with a filed Maximum Termination Liability of $100,000 for 3600 specially constructed facilities requests a partial termination of 900 facilities. The Termination Charge for all facilities, at the time of election, is $60,000. The partial termination charge, in this example, is $60,000 x 900/3600, or $15,000.

(C) Annual Underutilization Liability and Underutilization Charge

Prior to the start of special construction, the Telephone Company and the customer will agree on (1) the quantity of facilities to be provided, and (2) the length of the planning period during which the customer expects to place the facilities in service. The planning period is hereinafter referred to as the Initial Liability Period (ILP). The ILP is listed in the tariff with an effective and expiration date.

Underutilization occurs only if, at the expiration date of the ILP and annually thereafter, less than 70 percent of the specially constructed facilities are in service at filed tariff service rates.

An annual underutilization liability amount is filed on a per unit basis (e.g., per cable pair) for each case of special construction. This amount is equal to the annual per unit cost and includes depreciation, maintenance, administration, return, taxes, and any other costs identified in the supporting documentation provided at the time the special construction case is filed.

Upon the expiration of the ILP, the number of underutilized facilities, if any, are multiplied by the annual underutilization liability amount. This product is then multiplied by the number or years (including any fraction thereof) in the ILP to determine the underutilization charge.

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.6 Liabilities and Charges for Special Construction (Cont'd)

13.2.6.4 Types of Liabilities and Charges (Cont'd)

(C) Annual Underutilization Liability and Underutilization Charge (Cont'd)

Annually thereafter, the number of underutilized facilities, if any, existing on the anniversary of the ILP expiration date will be multiplied by the annual underutilization liability amount to determine the underutilization charge for the preceding 12-month period.

Example:

A customer orders 100 services and the special construction of a 600 pair building riser cable is agreed to, based on the customer's 5-year facility requirements. The ILP, in this example, would be filed at 5 years. The annual underutilization liability is filed at $2.00 per pair. If 400 pairs were in service at the end of the ILP, there would be an underutilization of 20 pairs; i.e., 420 (70% of 600) - 400 = 20. The total underutilization charge for the first 5 years would be $200.00, or $2.00 per pair x 20 pairs x 5 years.

If 420 pairs are in service at the end of the sixth year, there is no underutilization; i.e., 420 - 420= 0.

(D) Recurring Monthly Charges

(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.

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.6 Liabilities and Charges for Special Construction (Cont'd)

13.2.6.4 Types of Liabilities and Charges (Cont'd)

(D) Recurring Monthly Charges (Cont'd)

(1) Charge for Route or Type Other Than Normal (Cont'd)

(a) When an Optional Payment Charge as set forth in 13.2.6.4(A)(3) preceding has been elected, the recurring monthly charge will be reduced to include specially constructed facility operating expenses only.

(b) If the actual cost option as set forth in 13.2.6.3 preceding 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.

(E) Lease Charge

This charge applies when the Telephone Company leases equipment 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.

(F) 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 non-recoverable costs incurred by the Telephone Company in association with the special construction up to and including the time of cancellation.

13.2.7 Deferral of Start of Service

The Telephone Company may be requested to defer the start of service which will use specially constructed facilities subject to the provisions set forth in the service tariff under which service is being provided. Requests for special construction deferral must be in writing and are subject to the following regulations:

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.7 Deferral of Start of Service (Cont'd)

13.2.7.1 Construction Has Not Begun

If the Telephone Company has not incurred any installation costs before receiving a request for deferral, no charge applies.

13.2.7.2 Construction Has Begun

If the construction of facilities has begun before the Telephone Company receives a request for deferral, charges will vary as follows:

(A) All Services Are Deferred

When all services which will use specially constructed facilities are deferred, a charge based on the costs incurred by the Telephone Company during each month of the deferral will apply. Those costs include the recurring costs for that portion of the facilities already completed and any other costs associated with the deferral. The cost of any components of the nonrecurring charge which have been completed at the time of deferral will also apply.

(B) Some Services Are Deferred

When some services which will use the specially constructed facilities are deferred, the construction case will be completed, and all special construction charges will apply.

13.2.7.3 Construction Complete

If the construction of facilities has been completed before the Telephone Company receives a request for deferral, all special construction charges will apply.

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.8 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.

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.

(continued)

ACCESS SERVICE

13. Special Construction (Cont'd)

13.2 Regulations (Cont'd)

13.2.8 Definitions (Cont'd)

Net Salvage - The term "Net Salvage" denotes the estimated scrap, sale, or trade-in value, less the estimated cost of removal. Cost 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 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.

Normal Cost - The term "Normal Cost" denotes the estimated cost to provide services using normal 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.

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.

13.3 Charges to Provide Permanent Facilities

This section contains special construction charges to provide permanent facilities. Charges are developed on an individual case basis and are filed following:

Case No.	Telephone Co./ Customer Name	Description	Charge/ Liability	Effective Date	Expiration Date

Reserved for Future Use

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information

14.1 Serving Wire Center V and H Coordinate Information

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
AGUA FRIA	BRDSAZMACG0	9101	6811	MNTN	666	602	546
AGUA FRIA	AGFIAZSRDS0	9089	6788	5101	666	602	561
AGUA FRIA	AGFIAZSRDS0	9089	6788	5101	666	602	566
AGUA FRIA	PHNXAZMRCG0	9109	6795	5101	666	602	583
AGUA FRIA	BRDSAZMACG0	9101	6811	5101	666	602	584
AGUILA	AGULAZMA685	9071	6967	5101	666	602	685
AJO	AJO AZMA387	9392	6838	5101	666	602	387
ALPINE	ALPIAZXC339	8924	6249	2177	666	602	339

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
ASH FORK	ASFKAZMA637	8774	6905	5101	666	602	637
BAGDAD	BGDDAZMA633	8937	6997	5101	666	602	633
BENSON	BNSNAZMADS0	9371	6352	5101	668	602	586
BISBEE	PLMNAZMA366	9486	6289	5101	668	602	366
BISBEE	BISBAZMA43A	9467	6248	5101	668	602	432
BLACK CANYON	BLCNAZMA374	9006	6792	5101	666	602	374
BLACK MESA	BLMSAZXC677	8423	6608	2275	980	602	677
BLUE RIDGE	BLRGAZXC477	8854	6648	2171	666	602	477
BONITA	BONTAZXC828	9227	6329	2176	668	602	828
BOUSE	BOUSAZXC851	9104	7115	2302	730	602	851
BOWIE	BOWIAZXC847	9259	6226	2176	668	602	847
BUCKEYE	BCKYAZMADSO	9170	6835	5101	666	602	386
BULLHEAD CITY	BLCYAZXC754	8862	7266	2172	666	602	754
CAMERON	CMRNAZMA679	8624	6756	5101	666	602	679
CAMP VERDE	CMVRAZMADSO	8888	6744	5101	666	602	567
CASA GRANDE	CSGRAZMACGO	9241	6661	5101	666	602	421
CASA GRANDE	CSGRAZMACG0	9241	6661	5101	666	602	426
CASA GRANDE	CSGRAZMACGO	9241	6662	5101	666	602	836

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
CASTLE ROCK	CSRKAZXC764	8983	7203	2172	666	602	764
CAVE CREEK-CAREFREE	CVCKAZMACGO	9047	6740	5101	666	602	488
CHANDLER	CHNDAZWEDSO	9158	6721	5101	666	602	496
CHANDLER	CHNDAZMADS0	9154	6699	5101	666	602	732
CHANDLER	CHNDAZWEDS0	9158	6721	5101	666	602	759
CHANDLER	CHNDAZPRRS1	9154	6699	5101	666	602	786
CHANDLER	CHNDAZMADS0	9154	6699	5101	666	602	821
CHANDLER	CHNDAZSOCG0	9170	6696	5101	666	602	895
CHANDLER	CHNDAZMADS0	9154	6699	5101	666	602	899
CHANDLER	CHNDAZWEDS0	9158	6721	MNTN	666	602	940
CHANDLER	CHNDAZWEDSO	9158	6721	5101	666	602	961
CHANDLER	CHNDAZMADS0	9154	6699	5101	666	602	963
CHINLE	CHNLAZXC674	8459	6446	2275	980	602	674
CHINO VALLEY	CHVYAZMARS1	8871	6879	5101	666	602	636
CIBOLA	CIBLAZXC857	9243	7221	2302	730	602	857
CIRCLE CITY	CRCYAZMA388	9075	6855	5101	666	602	388
CLIFTON	CFTNAZMA86A	9099	6238	5101	668	602	865
COLORADO CITY	CLCYAZXCDSO	8416	7074	2286	660	602	875
COOLIDGE	CLDGAZMA723	9210	6625	5101	666	602	723
CORONADO	CRNDAZMADS0	9286	6494	5101	668	602	825
COTTONWOOD	CTWDAZMADS0	8856	6803	5101	666	602	634
COTTONWOOD	CTWDAZSORS1	8866	6791	5101	666	602	646
DEER VALLEY	DRVYAZNODSO	9085	6765	5101	666	602	434
DEER VALLEY	DRVYAZNODSO	9085	6765	5101	666	602	582
DEER VALLEY	DRVYAZNODSO	9085	6765	5101	666	602	780

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
DENNEHOTSO	DNHSAZXC658	8326	6534	2275	980	602	658
DILKON	DLKNAZXC657	8655	6538	2275	980	602	657
DOLAN SPRINGS	DLSPAZXC767	8757	7234	2172	666	602	767
DOUGLAS	DGLSAZMA36A	9467	6182	5101	668	602	364
DUDLEYVILLE	DDVLAZNMMG0	9192	6478	5101	668	602	357
DUNCAN	DNCNAZNMMG0	9159	6179	5101	668	602	359
EHRENBERG	EHRNAZXC923	9193	7193	2302	730	602	923
ELFRIDA	ELFRAZMA642	9402	6227	5101	668	602	642
ELOY	ELOYAZMA466	9260	6619	5101	666	602	466
FLAGSTAFF	FLGSAZMADS0	8746	6759	5101	666	602	523
FLAGSTAFF	FLGSAZSORS1	8771	6761	5101	666	602	525
FLAGSTAFF	FLGSAZEACG0	8740	6751	5101	666	602	526
FLAGSTAFF	FLGSAZEACG0	8740	6751	5101	666	602	527
FLAGSTAFF	FLGSAZMADS0	8746	6759	5101	666	602	773
FLAGSTAFF	FLGSAZMADS0	8746	6759	5101	666	602	774
FLAGSTAFF	FLGSAZMADS0	8746	6759	5101	666	602	779
FLAGSTAFF	FLGSAZMAXXX	8746	6759	5101	666	602	PAH
FLAGSTAFF	FLGSAZMAXXX	8746	6759	5101	666	602	VDH
FLORENCE	FLRNAZMA868	9193	6604	5101	666	602	868
FORT DEFIANCE	FTDFAZXC729	8523	6344	2275	980	602	729
FORT MC DOWELL	FTMDAZNORS1	9104	6679	5101	666	602	471
FORT MC DOWELL	FTMDAZMACG0	9085	6694	5101	666	602	837
						o	

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
FREDONIA	FRDNAZMA64A	8387	6998	5101	660	602	643
GANADO	GANDAZXC755	8550	6421	2275	980	602	755
GILA BEND	GLBNAZMA683	9265	6838	5101	666	602	683
GLEN CANYON CITY, UT	PAGEAZMA64A	8375	6811	5101	666	801	675
GLENDALE	GLDLAZMACG0	9118	6772	5101	666	602	435
GLENDALE	PHNXAZGRCG0	9098	6767	5101	666	602	439
GLENDALE	PHNXAZPRCG0	9108	6782	5101	666	602	486
GLENDALE	PHNXAZNWCG0	9118	6760	5101	666	602	589
GLENDALE	GLDLAZMACG0	9118	6772	5101	666	602	842
GLENDALE	PHNXAZGRCG0	9098	6767	5101	666	602	843
GLENDALE	PHNXAZMYCG0	9128	6773	5101	666	602	846
GLENDALE	PHNXAZMYCG0	9128	6773	5101	666	602	848
GLENDALE	PHNXAZBWCG0	9128	6786	5101	666	602	872
GLENDALE	PHNXAZMRCG0	9109	6795	5101	666	602	876
GLENDALE	PHNXAZBWCG0	9128	6786	5101	666	602	877
GLENDALE	PHNXAZPRCG0	9108	6782	5101	666	602	878
GLENDALE	GLDLAZMACG0	9118	6772	5101	666	602	930
GLENDALE	GLDLAZMACG0	9118	6772	5101	666	602	931
GLENDALE	PHNXAZMRCG0	9109	6795	5101	666	602	933

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
GLENDALE	GLDLAZMACG0	9118	6772	5101	666	602	934
GLENDALE	GLDLAZMACG0	9118	6772	5101	666	602	937
GLENDALE	PHNXAZGRCG0	9098	6767	5101	666	602	938
GLENDALE	GLDLAZMACG0	9118	6772	5101	666	602	939
GLENDALE	PHNXAZMRCG0	9109	6795	5101	666	602	972
GLENDALE	PHNXAZMRCG0	9109	6795	5101	666	602	974
GLENDALE	BRDSAZMACG0	9101	6811	5101	666	602	975
GLENDALE	PHNXAZMRCG0	9109	6795	5101	666	602	977
GLENDALE	PHNXAZGRCG0	9098	6767	5101	666	602	978
GLENDALE	PHNXAZPRCG0	9108	6782	5101	666	602	979
GLOBE	GLOBAZMA425	9091	6516	5101	668	602	425
GOLDEN VALLEY	GLVYAZXC565	8832	7199	2172	666	602	565
GRAND CANYON	GRCNAZMA638	8584	6886	5101	666	602	638
GREASEWOOD	GSWDAZXC654	8604	6465	2275	980	602	654
GREEN HAVEN	MRCNAZXE353	8361	6833	2171	666	602	353
GREEN VALLEY	GNVYAZMADSO	9421	6473	5101	668	602	625
GREEN VALLEY	GNVYAZMADSO	9421	6473	5101	668	602	648
GREER	GRERAZXC735	8902	6312	2177	666	602	735
HARQUAHALA VALLEY	HRVYAZXC372	9176	6940	2171	666	602	372
HAWLEY LAKE	HLLKAZXC335	8924	6364	2177	666	602	335
HAYDEN	HYDNAZMA356	9174	6495	5101	668	602	356
HAYDEN	KRNYAZMA363	9157	6520	5101	668	602	363
HEBER	HEBRAZXCDS0	8867	6537	2177	666	602	535

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
HIGLEY	HGLYAZQCDSO	9161	6659	5101	666	602	987
HIGLEY	HGLYAZMADSO	9148	6671	5101	666	602	988
HOLBROOK	HLBKAZXC524	8748	6484	2177	666	602	524
HUMBOLDT	HMBLAZMA632	8917	6828	5101	666	602	632
HYDER	HYDRAZXC454	9274	6955	2171	666	602	454
JOSEPH CITY	JSCYAZMA288	8743	6518	5101	666	602	288
KAIBITO	KABTAZXC673	8428	6730	2275	980	602	673
KAYENTA	KYNTAZXC697	8368	6597	2275	980	602	697
KEAMS CANYON	KMCNAZXC738	8556	6538	2175	666	602	738
KINGMAN	KGMNAZXC01T	8837	7179	2172	666	602	753
KINGMAN	KGMNAZXE757	8822	7173	2172	666	602	757
VILLAGE	KYKOTSMOVI KIVGAZXC734	8562	6615	2175	666	602	734
LAKE HAVASU CITY	LHCYAZXCDSO	9004	7202	2172	666	602	453
LAKE HAVASU CITY	LHCYAZXCDSO	9004	7202	2172	666	602	855
LAKESIDE	PNTPAZXBRS1	8896	6413	2177	666	602	368
LE CHEE	LCHEAZXC698	8388	6805	2275	980	602	698
LEUPP	LEPPAZXC686	8699	6652	2275	980	602	686
LITCHFIELD PARK	LTPKAZMACGO	9135	6801	5101	666	602	393
LITCHFIELD PARK	PHNXAZMYCG0	9128	6773	5101	666	602	849
LITCHFIELD PARK	LTPKAZMACG0	9135	6801	5101	666	602	856
LITCHFIELD PARK	PHNXAZMYCG0	9128	6773	5101	666	602	873

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
LITCHFIELD PARK	GDYRAZCWMG0	9147	6798	5101	666	602	925
LITCHFIELD PARK	GDYRAZCWMG0	9147	6798	5101	666	602	932
LITCHFIELD PARK	LTPKAZMACG0	9135	6801	5101	666	602	935
LITCHFIELD PARK	TLSNAZMACG0	9140	6780	5101	666	602	936
LITTLEFIELD	LLFDAZXF347	8488	7231	2356	660	602	347
LUKACHUKAI	LKCHAZXC787	8391	6409	2275	980	602	787
MANY FARMS	MNFRAZXC781	8419	6469	2275	980	602	781
MARANA	MARNAZMARS1	9307	6544	5101	668	602	682
MARBLE CANYON	MRCNAZXC355	8403	6838	2171	666	602	355
MARICOPA	MRCPAZMA568	9215	6725	5101	666	602	568
MCNARY	MCNRAZXCRS1	8910	6386	2177	666	602	334
MEADVIEW	MDVWAZXC564	8665	7219	2172	666	602	564
MESA	MESAAZMACG0	9130	6703	5101	666	602	461
MESA	MESAAZMACG0	9130	6703	5101	666	602	464
MESA	MESAAZGIDSO	9140	6693	5101	666	602	497
MESA	MESAAZMACG0	9130	6703	5101	666	602	827
							MESA
SPRSAZWECG0	9125	6685	5101	666	ABDE	602	830
MESA	SPRSAZWECG0	9125	6685	5101	666	602	832
MESA	MESAAZMACG0	9130	6703	5101	666	602	833
MESA	MESAAZMACG0	9130	6703	5101	666	602	834
MESA	MESAAZMACG0	9130	6703	5101	666	602	835
MESA	MESAAZMACG0	9130	6703	5101	666	602	844
MESA	MESAAZMACG0	9130	6703	5101	666	602	890
MESA	MESAAZGIDSO	9140	6693	5101	666	602	892
MESA	MESAAZMACG0	9130	6703	5101	666	602	898
MESA	MESAAZGIDSO	9140	6693	5101	666	602	926

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
MESA	MESAAZMACG0	9130	6703	5101	666	602	962
MESA	MESAAZMACG0	9130	6703	5101	666	602	964
MESA	MESAAZMACG0	9130	6703	5101	666	602	969
MIAMI	MIAMAZMA473	9094	6531	5101	668	602	473
MOHAVE VALLEY	MHVYAZXC768	8913	7264	2172	666	602	768
MORMON LAKE	MMLKAZXC354	8798	6714	2171	666	602	354
MUNDS PARK	MSPKAZMADSO	8800	6747	5101	666	602	286
NEW RIVER	NWRVAZMA465	9034	6777	5101	666	602	465
NOGALES	NGLSAZMWCG1	9522	6440	5101	668	602	281
NOGALES	NGLSAZMA28A	9532	6436	5101	668	602	287
NORTH PHOENIX	PHNXAZGRCG0	9098	6767	5101	666	602	375
NORTH PHOENIX	PHNXAZSYCG0	9108	6754	5101	666	602	395
NORTH PHOENIX	PHNXAZCACG0	9099	6744	5101	666	602	482
NORTH PHOENIX	DRVYAZNODSO	9085	6765	5101	666	602	492
NORTH PHOENIX	PHNXAZCACG0	9099	6744	5101	666	602	493
NORTH PHOENIX	PHNXAZCACGO	9099	6744	5101	666	602	494
NORTH PHOENIX	PHNXAZCACG0	9099	6744	5101	666	602	569
NORTH PHOENIX	DRVYAZNODSO	9085	6765	5101	666	602	581
NORTH PHOENIX	PHNXAZGRCG0	9098	6767	5101	666	602	588
NORTH PHOENIX	PHNXAZSYCG0	9108	6754	5101	666	602	678
NORTH PHOENIX	PHNXAZCACG0	9099	6744	5101	666	602	788
NORTH PHOENIX	PHNXAZGRCG0	9098	6767	5101	666	602	789
NORTH PHOENIX	PHNXAZSYCG0	9108	6754	5101	666	602	861
NORTH PHOENIX	PHNXAZGRCGO	9098	6767	5101	666	602	862

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
NORTH PHOENIX	PHNXAZGRCG0	9098	6767	5101	666	602	863
NORTH PHOENIX	PHNXAZNWCG0	9118	6760	5101	666	602	864
NORTH PHOENIX	PHNXAZGRCG0	9098	6767	5101	666	602	866
NORTH PHOENIX	PHNXAZCACG0	9099	6744	5101	666	602	867
NORTH PHOENIX	DRVYAZNODSO	9085	6765	5101	666	602	869
NORTH PHOENIX	DRVYAZNODSO	9085	6765	5101	666	602	879
NORTH PHOENIX	PHNXAZGRCG0	9098	6767	5101	666	602	942
NORTH PHOENIX	PHNXAZSYCG0	9108	6754	5101	666	602	943
NORTH PHOENIX	PHNXAZSYCG0	9108	6754	5101	666	602	944
NORTH PHOENIX	PHNXAZCACG0	9099	6744	5101	666	602	953
NORTH PHOENIX	PHNXAZCACG0	9099	6744	5101	666	602	971
NORTH PHOENIX	PHNXAZCACG0	9099	6744	5101	666	602	992
NORTH PHOENIX	PHNXAZGRCG0	9098	6767	5101	666	602	993
NORTH PHOENIX	PHNXAZNWCG0	9118	6760	5101	666	602	995
NORTH PHOENIX	PHNXAZCACG0	9099	6744	5101	666	602	996
NORTH PHOENIX	PHNXAZSYCG0	9108	6754	5101	666	602	997
PAGE	PAGEAZMA64A	8375	6811	5101	666	602	645
PARADISE VALLEY	PRVYAZPPDSO	9072	6727	5101	666	602	563
PARADISE VALLEY	PRVYAZPPDSO	9072	6727	5101	666	602	585
PARKER	PRKRAZXC66A	9068	7175	2302	730	602	669
PARKER DAM	PRDMAZXC667	9032	7153	2302	730	602	667
PATAGONIA	PTGNAZMA394	9480	6412	5101	668	602	394

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
PATAGONIA	PTGNAZEL455	9494	6377	5101	668	602	455
PAYSON	PYSNAZMADSO	8938	6655	5101	666	602	474
PAYSON	PINEAZMA476	8910	6685	5101	666	602	476
PAYSON	TNCKAZMA478	8907	6618	5101	666	602	478
PEACH SPRINGS	PCSPAZXC769	8744	7084	2172	666	602	769
PEARCE	PERCAZXC826	9364	6264	2176	668	602	826
PHOENIX	PHNXAZEACG0	9130	6738	5101	666	602	220
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	221
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	222
PHOENIX	PHNXAZMACG1	9133	6748	5101	666	602	223
PHOENIX	PHNXAZNECG0	9121	6737	5101	666	602	224
PHOENIX	PHNXAZEACG0	9130	6738	5101	666	602	225
PHOENIX	PHNXAZMACG1	9133	6748	5101	666	602	226
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	227
PHOENIX	PHNXAZCRCM1	9130	6738	5101	666	602	228
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	229
PHOENIX	PHNXAZNOCG0	9123	6749	5101	666	602	230
PHOENIX	PHNXAZEACG0	9130	6738	5101	666	602	231
PHOENIX	PHNXAZSOCG0	9145	6745	5101	666	602	232
PHOENIX	PHNXAZWECG0	9135	6759	5101	666	602	233
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	234
PHOENIX	PHNXAZNOCG0	9123	6749	5101	666	602	235

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
PHOENIX	PHNXAZEACG0	9130	6738	5101	666	602	236
PHOENIX	PHNXAZLVDSO	9155	6760	5101	666	602	237
PHOENIX	PHNXAZMACG1	9133	6748	5101	666	602	238
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	239
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	240
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	241
PHOENIX	PHNXAZNWCG0	9118	6760	5101	666	602	242
PHOENIX	PHNXAZSOCG0	9145	6745	5101	666	602	243
PHOENIX	PHNXAZEACG0	9130	6738	5101	666	602	244
PHOENIX	PHNXAZMYCG0	9128	6773	5101	666	602	245
PHOENIX	PHNXAZNWCG0	9118	6760	5101	666	602	246
PHOENIX	PHNXAZMYCG0	9128	6773	5101	666	602	247
PHOENIX	PHNXAZNOCG0	9123	6749	5101	666	602	248
PHOENIX	PHNXAZNWCG0	9118	6760	5101	666	602	249
PHOENIX	PHNXAZMACG1	9133	6748	5101	666	602	250
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	251
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	252
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	253
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	254
PHOENIX	PHNXAZMACG1	9133	6748	5101	666	602	255
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	256
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	257

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
PHOENIX	PHNXAZMACG1	9133	6748	5101	666	602	258
PHOENIX	PHNXAZMACG1	9133	6748	5101	666	602	259
PHOENIX	PHNXAZNOCG0	9123	6749	5101	666	602	260
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	261
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	262
PHOENIX	PHNXAZNOCG0	9123	6749	5101	666	602	263
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	264
PHOENIX	PHNXAZNOCG0	9123	6749	5101	666	602	265
PHOENIX	PHNXAZNOCG0	9123	6749	5101	666	602	266
PHOENIX	PHNXAZEACG0	9130	6738	5101	666	602	267
PHOENIX	PHNXAZSOCG0	9145	6745	5101	666	602	268
PHOENIX	PHNXAZWECG0	9135	6759	5101	666	602	269
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	270
PHOENIX	PHNXAZMACG1	9133	6748	5101	666	602	271
PHOENIX	PHNXAZWECG0	9135	6759	5101	666	602	272
PHOENIX	PHNXAZEACG0	9130	6738	5101	666	602	273
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	274
PHOENIX	PHNXAZEACG0	9130	6738	5101	666	602	275
PHOENIX	PHNXAZSOCG0	9145	6745	5101	666	602	276
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	277
PHOENIX	PHNXAZWECG0	9135	6759	5101	666	602	278
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	279
PHOENIX	PHNXAZNOCG0	9123	6749	5101	666	602	280
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	285

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
PHOENIX	PHNXAZNOCG0	9123	6749	5101	666	602	251
PHOENIX	PHNXAZWECG0	9135	6759	5101	666	602	252
PHOENIX	PHNXAZCRCM1	9130	6738	5101	666	602	370
PHOENIX	PHNXAZSYCGO	9108	6754	5101	666	602	371
PHOENIX	PHNXAZEACGO	9130	6738	5101	666	602	376
PHOENIX	PHNXAZEACGO	9130	6738	5101	666	602	377
PHOENIX	PHNXAZMADS1	9133	6748	5101	666	602	379
PHOENIX	PHNXAZNECGO	9121	6737	5101	666	602	381
PHOENIX	PHNXAZEACG0	9130	6738	5101	666	602	389
PHOENIX	PHNXAZEACG0	9130	6738	5101	666	602	390
PHOENIX	PHNXAZEACGO	9130	6738	5101	666	602	392
PHOENIX	PHNXAZEACG0	9130	6738	5101	666	602	397
PHOENIX	PHNXAZGWDS0	9098	6767	5101	666	602	420
PHOENIX	PHNXAZSECG0	9142	6731	5101	666	602	431
PHOENIX	PHNXAZNWCG0	9118	6760	5101	666	602	433
PHOENIX	PHNXAZSECG0	9142	6731	5101	666	602	437
PHOENIX	PHNXAZSECG0	9142	6731	5101	666	602	438
PHOENIX	PHNXAZ81DS0	9121	6737	5101	666	602	460
PHOENIX	PHNXAZNECG0	9121	6737	5101	666	602	468
PHOENIX	PHNXAZWECGO	9135	6759	5101	666	602	484
PHOENIX	PHNXAZMACGO	9133	6748	5101	666	602	495
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	498
PHOENIX	PHNXAZGRCG0	9098	6767	MNTN	666	602	543
PHOENIX	PHNXAZMA1XD	9133	6748	5101	666	602	549
PHOENIX	PHNXAZNECG0	9121	6737	5101	666	602	551
PHOENIX	PHNXAZMA5CD	9133	6748	5101	666	602	555
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	631
PHOENIX	PHNXAZNWCG0	9118	6760	5101	666	602	841
PHOENIX	PHNXAZMAO4T	9133	6748	5101	666	602	850

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
PHOENIX	PHNXAZSYCG0	9108	6754	5101	666	602	870
PHOENIX	PHNXAZNOCG1	9123	6749	5101	666	602	950
PHOENIX	PHNXAZNECG0	9121	6737	5101	666	602	954
PHOENIX	PHNXAZNECG0	9121	6737	5101	666	602	955
PHOENIX	PHNXAZNECG0	9121	6737	5101	666	602	956
PHOENIX	PHNXAZNECG0	9121	6737	5101	666	602	957
PHOENIX	PHNXAZNWCG0	9118	6760	5101	666	602	973
PHOENIX	PHNXAZMACG0	9133	6748	5101	666	602	976
PHOENIX	PHNXAZMAO1T	9133	6748	5101	666	602	ATO
PHOENIX	PHNXAZMAXXX	9133	6748	5101	666	602	DDH
PHOENIX	PHNXAZMAXXX	9133	6748	5101	666	602	PAH
PHOENIX	PHNXAZMAXXX	9133	6748	5101	666	602	VDH
PHOENIX 1	PHNXAZMAO1W	9133	6748	5101	666	602	PSN
PHOENIX 2	PHNXAZMA02W	9133	6748	5101	666	602	PSN
PIMA	PIMAAZMA485	9154	6319	5101	668	602	485
PINEDALE	PNDLAZXC739	8876	6469	2177	666	602	739
PINETOP	PNTPAZXCDS0	8901	6404	2177	666	602	367
PINETOP	PNTPAZXADS0	8901	6398	2177	666	602	369

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
PINON-COTTONWOOD	PINNAZXC725	8491	6499	2275	980	602	725
POLACCA	PLCCAZXC737	8560	6573	2175	666	602	737
PORTAL	PRTLAZXC55A	9329	6143	2176	668	602	558
POSTON	PSTNAZXC66A	9116	7188	2302	730	602	662
PRESCOTT	PRSCAZSW442	8954	6908	5101	666	602	442
PRESCOTT	PRSCAZMADS0	8917	6871	5101	666	602	445
PRESCOTT	PRSCAZEARS1	8902	6847	5101	666	602	772
PRESCOTT	PRSCAZEARS1	8902	6847	5101	666	602	775
PRESCOTT	PRSCAZMADS0	8917	6872	5101	666	602	776
PRESCOTT	PRSCAZMADS0	8917	6871	5101	666	602	778
QUARTZSITE	QRTZAZXC927	9168	7140	2174	730	602	927
RED VALLEY	RDVYAZXC653	8344	6385	2275	980	602	653
RIVIERA	RVRAAZXC75A	8876	7276	2172	666	602	758
RIVIERA	RVRAAZXC75A	8876	7276	2172	666	602	763
ROBLES	TCSNAZSWMG0	9392	6542	5101	668	602	822
ROCK POINT	RKPNAZXC659	8342	6489	2275	980	602	659
ROOSEVELT LAKE	RSVTAZXC467	9049	6593	2171	666	602	467
ROUGH ROCK	RHRKAZXC728	8419	6515	2275	980	602	728
SACATON	SCTNAZMA562	9198	6670	5101	666	602	562
SAFFORD	SFFRAZMAMG0	9163	6295	5101	668	602	428
SAINT JOHNS	STJHAZXCDS0	8798	6326	2177	666	602	337
SALOME	SALMAZXC859	9121	7039	2174	730	602	859
SALT LAKE CITY	SLKCUTMAO1W	7574	7066	5101	660	801	PSN
SAN CARLOS	SNCRAZMA475	9086	6454	5101	668	602	475
SAN MANUEL	SNMNAZMA385	9252	6447	5101	668	602	385
SAN MANUEL	MMTHAZMA487	9227	6455	5101	668	602	487
SAN MANUEL	ORCLAZMAMG0	9256	6474	5101	668	602	896
SAN SIMON	SNSMAZXC845	9259	6176	2176	668	602	845

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
SANDERS	SNDRAZMA688	8646	6358	5101	666	602	688
SASABE	SASBAZXC823	9505	6550	2171	668	602	823
SCOTTSDALE	SCDLAZSHDSO	9095	6712	5101	666	602	391
SCOTTSDALE	SCDLAZMACG0	9118	6724	5101	666	602	423
SCOTTSDALE	SCDLAZTHCGO	9102	6728	5101	666	602	443
SCOTTSDALE	SCDLAZSHDS0	9095	6712	5101	666	602	451
SCOTTSDALE	SCDLAZMACG0	9118	6724	5101	666	602	481
SCOTTSDALE	SCDLAZTHCG0	9102	6728	5101	666	602	483
SCOTTSDALE	PHNXAZNECG0	9121	6737	5101	666	602	840
SCOTTSDALE	SCDLAZSHDSO	9095	6712	5101	666	602	860
SCOTTSDALE	SCDLAZMACG0	9118	6724	5101	666	602	941
SCOTTSDALE	SCDLAZMACG0	9118	6724	5101	666	602	945
SCOTTSDALE	SCDLAZMACG0	9118	6724	5101	666	602	946
SCOTTSDALE	SCDLAZMACG0	9118	6724	5101	666	602	947
SCOTTSDALE	SCDLAZTHCG0	9102	6728	5101	666	602	948
SCOTTSDALE	SCDLAZMACG0	9118	6724	5101	666	602	949
SCOTTSDALE	SCDLAZTHCG0	9102	6728	5101	666	602	951
SCOTTSDALE	PHNXAZNECG0	9121	6737	5101	666	602	952
SCOTTSDALE	PHNXAZNECG0	9121	6737	5101	666	602	959
SCOTTSDALE	SCDLAZMACG0	9118	6724	5101	666	602	990
SCOTTSDALE	SCDLAZTHCG0	9102	6728	5101	666	602	991
SCOTTSDALE	SCDLAZMACG0	9118	6724	5101	666	602	994
SCOTTSDALE	SCDLAZTHCG0	9102	6728	5101	666	602	998
SEDONA	SEDNAZMACG0	8820	6763	5101	666	602	282

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
SEDONA	SEDNAZSORS1	8841	6758	5101	666	602	284
SELIGMAN	SGMNAZMA422	8766	6979	5101	666	602	422
SELLS	SLLSAZXADS0	9450	6636	2173	668	602	383
SHONTO	SHNTAZXC672	8411	6656	2275	980	602	672
SHOW LOW	SHLWAZXCDS0	8879	6428	2177	666	602	537
SIERRA VISTA	SRVSAZSORS1	9471	6319	5101	668	602	378
SIERRA VISTA	SRVSAZNORS1	9440	6343	5101	668	602	456
SIERRA VISTA	SRVSAZMADS0	9458	6332	5101	668	602	458
SIERRA VISTA	SRVSAZMADS0	9458	6332	5101	668	602	459
SIERRA VISTA	SRVSAZMADS0	9458	6332	5101	668	602	533
SIERRA VISTA	SRVSAZMADS0	9458	6332	5101	668	602	538
SILVER BELL	SLBLAZMA324	9334	6591	5101	668	602	324
SNOWFLAKE	SNWFAZXC536	8827	6449	2177	666	602	536
SOMERTON	SMTNAZMA627	9414	7182	5101	666	602	627
SPRINGERVILLE	SPVLAZXCDSO	8871	6290	2177	666	602	333
STANFIELD	STFDAZMA424	9249	6700	5101	666	602	424
SUNIZONA	SNZNAZXC824	9361	6232	2176	668	602	824
SUPAI	SUPAAZXC448	8566	6988	2171	666	602	448
SUPERIOR	SPRRAZMA689	9125	6562	5101	666	602	689
SUPERSTITION-APACHE	SPRSAZMACG0	9122	6665	5101	666	602	373
SUPERSTITION-APACHE	SPRSAZMACG0	9122	6665	5101	666	602	380
SUPERSTITION-APACHE	SPRSAZWECG0	9125	6685	5101	666	602	396
SUPERSTITION-APACHE	SPRSAZWECG0	9125	6685	5101	666	602	891
SUPERSTITION-APACHE	SPRSAZWECG0	9125	6685	5101	666	602	981

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
SUPERSTITION-APACHE	SPRSAZMACG0	9122	6665	5101	666	602	984
SUPERSTITION-APACHE	SPRSAZWECG0	9125	6685	5101	666	602	985
SUPERSTITION-APACHE	SPRSAZMACG0	9122	6665	5101	666	602	986
SUPERSTITION-APACHE JCT	SPRSAZWECG0	9125	6685	5101	666	602	924
SUPERSTITION-APACHE JCT	SPRSAZEADS0	9120	6649	5101	666	602	982
SUPERSTITION-APACHE JCT	SPRSAZEADS0	9120	6649	5101	666	602	983
TEEC NOS POS	TNPSAZXC656	8279	6412	2275	980	602	656
TEMPE	TEMPAZMCCGO	9144	6715	5101	666	602	345
TEMPE	TEMPAZMACG0	9133	6723	5101	666	602	350
TEMPE	TEMPAZMCCG0	9144	6715	5101	666	602	730
TEMPE	TEMPAZMACGO	9133	6723	5101	666	602	731
TEMPE	TEMPAZMCCG0	9144	6715	5101	666	602	752
TEMPE	TEMPAZMCCGO	9144	6715	5101	666	602	756
TEMPE	TEMPAZMACGO	9133	6723	5101	666	602	784
TEMPE	TEMPAZMCCG0	9144	6715	5101	666	602	820
TEMPE	TEMPAZMACG0	9133	6723	5101	666	602	829
TEMPE	TEMPAZMCCG0	9144	6715	5101	666	602	831
TEMPE	TEMPAZMCCG0	9144	6715	5101	666	602	838
TEMPE	TEMPAZMCCG0	9144	6715	5101	666	602	839
TEMPE	CHNDAZWEDSO	9158	6721	5101	666	602	893
TEMPE	TEMPAZMACG0	9133	6723	5101	666	602	894

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
TEMPE	TEMPAZMCCG0	9144	6715	5101	666	602	897
TEMPE	TEMPAZMACG0	9133	6723	5101	666	602	921
TEMPE	TEMPAZMACG0	9133	6723	5101	666	602	965
TEMPE	TEMPAZMACG0	9133	6723	5101	666	602	966
TEMPE	TEMPAZMACG0	9133	6723	5101	666	602	967
TEMPE	TEMPAZMACG0	9133	6723	5101	666	602	968
TOMBSTONE	TMBSAZMA457	9413	6297	5101	668	602	457
TONTO BASIN	TNBSAZXC479	9017	6630	2171	666	602	479
TOYEI	TOYIAZXC736	8566	6485	2275	980	602	736
TSAILE	TSILAZXC724	8414	6392	2275	980	602	724
TUBA CITY	TBCYAZXC283	8533	6737	2275	980	602	283
TUBAC	TUBCAZMA398	9478	6470	5101	668	602	398
TUCSON	TCSNAZRNCG0	9340	6458	5101	668	602	290
TUCSON	TCSNAZNOCG0	9320	6498	5101	668	602	291
TUCSON	TCSNAZFWDS0	9334	6495	5101	668	602	292
TUCSON	TCSNAZFWDS0	9334	6495	5101	668	602	293
TUCSON	TCSNAZSOCG0	9364	6483	5101	668	602	294
TUCSON	TCSNAZSOCG0	9364	6483	5101	668	602	295
TUCSON	TCSNAZRNCG0	9340	6458	5101	668	602	296
TUCSON	TCSNAZNOCG0	9320	6498	5101	668	602	297
TUCSON	TCSNAZRNCG0	9340	6458	5101	668	602	298
TUCSON	TCSNAZCACG0	9324	6478	5101	668	602	299
TUCSON	TCSNAZEACG0	9342	6480	5101	668	602	321
TUCSON	TCSNAZEACG0	9342	6480	5101	668	602	322
TUCSON	TCSNAZEACG0	9342	6480	5101	668	602	323
TUCSON	TCSNAZEACG0	9342	6480	5101	668	602	325
TUCSON	TCSNAZEACG0	9342	6480	5101	668	602	326

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
TUCSON	TCSNAZEACG0	9342	6480	5101	668	602	327
TUCSON	TCSNAZEACG0	9342	6480	5101	668	602	349
TUCSON	TCSNAZNOCG0	9320	6498	5101	668	602	429
TUCSON	TCSNAZNOCG0	9320	6498	5101	668	602	444
TUCSON	TCSNAZNOCG0	9320	6498	5101	668	602	446
TUCSON	TCSNAZNOCG0	9320	6498	5101	668	602	447
TUCSON	TCSNAZEACG0	9342	6480	5101	668	602	449
TUCSON	TCSNAZNOCG0	9320	6498	5101	668	602	469
TUCSON	TCSNAZCRCG0	9347	6469	5101	668	602	571
TUCSON	TCSNAZSOCG0	9364	6483	5101	668	602	573
TUCSON	TCSNAZSERS1	9365	6460	5101	668	602	574
TUCSON	TCSNAZNOCG0	9320	6498	5101	668	602	575
TUCSON	TCSNAZMLRS1	9293	6466	5101	668	602	576
TUCSON	TCSNAZCACG0	9324	6478	5101	668	602	577
TUCSON	TCSNAZSWDS0	9363	6500	5101	668	602	578
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	620
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	621
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	622
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	623
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	624
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	626
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	628
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	629
TUCSON	TCSNAZEACG0	9342	6480	5101	668	602	676
TUCSON	TCSNAZMACG0	9346	6487	MNTN	668	602	694

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
TUCSON	TCSNAZCDRS1	9340	6458	5101	668	602	695
TUCSON	TCSNAZRNCG0	9340	6458	5101	668	602	721
TUCSON	TCSNAZRNCGO	9340	6458	5101	668	602	722
TUCSON	TCSNAZSOCG0	9364	6483	5101	668	602	741
TUCSON	TCSNAZNOCG0	9320	6498	5101	668	602	742
TUCSON	TCSNAZWERS1	9340	6503	5101	668	602	743
TUCSON	TCSNAZCOCG0	9322	6514	5101	668	602	744
TUCSON	TCSNAZCRCG0	9347	6469	5101	668	602	745
TUCSON	TCSNAZSOCG0	9364	6483	5101	668	602	746
TUCSON	TCSNAZCRCG0	9347	6469	5101	668	602	747
TUCSON	TCSNAZCRCG0	9347	6469	5101	668	602	748
TUCSON	TCSNAZTVCG0	9326	6455	5101	668	602	749
TUCSON	TCSNAZCRCG0	9347	6469	5101	668	602	750
TUCSON	TCSNAZRNCG0	9340	6458	5101	668	602	751
TUCSON	TCSNAZCRCG0	9347	6469	5101	668	602	790
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	791
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	792
TUCSON	TCSNAZNOCG0	9320	6498	5101	668	602	793
TUCSON	TCSNAZSOCG0	9364	6483	5101	668	602	794
TUCSON	TCSNAZEACG0	9342	6480	5101	668	602	795
TUCSON	TCSNAZNOCG0	9320	6498	5101	668	602	797
TUCSON	TCSNAZMACGO	9346	6487	5101	668	602	798
TUCSON	TCSNAZSOCG0	9364	6483	5101	668	602	799

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
TUCSON	TCSNAZSWDS0	9363	6500	5101	668	602	822
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	880
TUCSON	TCSNAZEACG0	9342	6480	5101	668	602	881
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	882
TUCSON	TCSNAZSWDS0	9363	6500	5101	668	602	883
TUCSON	TCSNAZMACG0	9346	6487	5101	668	602	884
TUCSON	TCSNAZRNCG0	9340	6458	5101	668	602	885
TUCSON	TCSNAZRNCG0	9340	6458	5101	668	602	886
TUCSON	TCSNAZFWDS0	9334	6495	5101	668	602	887
TUCSON	TCSNAZFWDS0	9334	6495	5101	668	602	888
TUCSON	TCSNAZSOCG0	9364	6483	5101	668	602	889
TUCSON	TCSNAZMA04T	9346	6487	5101	668	602	ATO
TUCSON	TCSNAZMAXXX	9346	6487	5101	668	602	DDH
TUCSON	TCSNAZMAXXX	9346	6487	5101	668	602	PAH
TUCSON	TCSNAZMAXXX	9346	6487	5101	668	602	VDH
VAIL	VAILAZNO647	9360	6430	5101	668	602	647
VAIL	VAILAZSODSO	9393	6438	5101	668	602	762
VIRDEN, NM	DNCNAZNMMG0	9159	6179	5101	668	505	358
WELLTON	WLTNAZMA785	9377	7082	5101	666	602	785
WHITE TANKS	WHTKAZMARS1	9144	6819	5101	666	602	853
WHITERIVER	WHRVAZXARS1	8942	6496	2177	666	602	332
WHITERIVER	WHRVAZXC338	8964	6394	2177	666	602	338
WHITLOW	WHTLAZMADS0	9134	6601	5101	666	602	463
WICKENBURG	WCBGAZMA684	9049	6890	5101	666	602	684
WIDE RUIN	WDRNAZXC652	8610	6396	2275	980	602	652
WIKIEUP	WIKPAZXC765	8919	7079	2172	666	602	765
WILLCOX	WLCXAZMA384	9290	6284	5101	668	602	384

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.1 Serving Wire Center V and H Coordinate Information (Cont'd)

LOCALITY	CLLI	WCV	WCH	CC	LATA	NPA	NXX
WILLIAMS	WLMSAZMA635	8757	6856	5101	666	602	635
WINDOW ROCK	WNRKAZXC871	8537	6336	2275	980	602	871
WINSLOW	WNSLAZMA289	8744	6585	5101	666	602	289
WINTERHAVEN, CA	YUMAAZMADS0	9384	7171	5101	666	619	572
YARNELL	YRNLAZMA427	8996	6905	5101	666	602	427
YORK VALLEY	YRVYAZMAMGO	9120	6208	5101	668	602	687
YOUNG	YONGAZMA462	8944	6578	5101	666	602	462
YUCCA	YUCCAZXC766	8908	7182	2172	666	602	766
YUMA	YUMAAZMADS0	9384	7171	5101	666	602	328
YUMA	YUMAAZMADS0	9384	7171	5101	666	602	329
YUMA	YUMAAZSEMGO	9392	7162	5101	666	602	341
YUMA	YUMAAZFTDSO	9388	7132	5101	666	602	342
YUMA	YUMAAZMADS0	9384	7171	5101	666	602	343
YUMA	YUMAAZSEMG0	9392	7162	5101	666	602	344
YUMA	YUMAAZSEMG0	9392	7162	5101	666	602	726
YUMA	YUMAAZMADS0	9384	7171	5101	666	602	782
YUMA	YUMAAZMADS0	9384	7171	5101	666	602	783

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.2 Single State Interconnection Information

LOCALITY	LC	CC	BP	OI	SVC
ALPINE	ALPIAZXC	2177	45	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	55	END	
AUBREY PEAK	AYPEAZQZ	2172	0	END	ALL
PHOENIX	PHNXAZMA	5101	100	END	
BLUE RIDGE	BLRGAZXC	2171	14	END	ALL
PHOENIX	PHNXAZMA	5101	86	END	
BONITA	BONTAZXC	2176	40	END	ALL
TUCSON	TCSNAZMA	5101	60	END	
BOWIE	BOWIAZXC	2176	31	END	ALL
TUCSON	TCSNAZMA	5101	69	END	
BULLHEAD CITY	BLCYAZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	
BULLHEAD CITY	BLCYAZXC	2172	54	END	SPA
PHOENIX	PHNXAZMA	5101	46	END	
CASTLE ROCK	CSRKAZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5150	0	END	
CASTLE ROCK	CSRKAZXC	2172	53	END	SPA
PHOENIX	PHNXAZMA	5101	47	END	
DOLAN SPRINGS	DLSPAZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	
DOLAN SPRINGS	DLSPAZXC	2172	49	END	SPA
PHOENIX	PHNXAZMA	5101	51	END	
GOLDEN VALLEY	GLVYAZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.2 Single State Interconnection Information (Cont'd)

LOCALITY	LC	CC	BP	OI	SVC
GOLDEN VALLEY	GLVYAZXC	2172	40	END	SPA
PHOENIX	PHNXAZMA	5101	60	END	
GREEN HAVEN	MRCNAZXE	2171	1	END	ALL
PHOENIX	PHNXAZMA	5101	99	END	
GREER	GRERAZXC	2177	43	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	57	END	
HARQUAHALA VALLEY	HRVYAZXC	2171	7	END	ALL
PHOENIX	PHNXAZMA	5101	93	END	
HAWLEY LAKE	HLLKAZXC	2177	27	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	73	END	
HEBER	HEBRAZXC	2177	25	END	SPA
FLAGSTAFF	FLGSAZMA	5101	75	END	
HEBER	HEBRAZXC	2177	34	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	66	END	
HOLBROOK	HLBKAZXC	2177	1	END	SPA
CAVE CREEK	CVCKAZMA	5101	99	END	
HOLBROOK	HLBKAZXC	2177	1	END	SPA
FLAGSTAFF	FLGSAZMA	5101	99	END	
HOLBROOK	HLBKAZXC	2177	1	END	SPA
JOSEPH CITY	JSCYAZMA	5101	99		
HOLBROOK	HLBKAZXC	2177	1	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	99	END	
HOLBROOK	HLBKAZXC	2177	1	END	SPA
WINSLOW	WNSLAZMA	5101	99	END	

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.2 Single State Interconnection Information (Cont'd)

LOCALITY	LC	CC	BP	OI	SVC
HAWLEY LAKE	HLLKAZXC	2177	27	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	23	END	
HYDER	HYDRAZXC	2171	13	END	ALL
PHOENIX	PHNXAZMA	5101	87	END	
KEAMS CANYON	KMCNAZXC	2175	23	END	ALL
PHOENIX	PHNXAZMA	5101	77	END	
KINGMAN	KGMNAZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	
KINGMAN	KGMNAZXE	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	
KINGMAN	KGMNAZXC	2172	38	END	SPA
PHOENIX	PHNXAZMA	5101	62	END	
KINGMAN	KGMNAZXE	2172	40	END	SPA
PHOENIX	PHNXAZMA	5101	60	END	
KYKOTSMOVI VILLAGE	KIVGAZXC	2175	19	END	ALL
PHOENIX	PHNXAZMA	5101	81	END	
LAKE HAVASU CITY	LHCYAZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	
LAKE HAVASU CITY	LHCYAZXC	2172	59	END	SPA
PHOENIX	PHNXAZMA	5101	41	END	
LAKESIDE	PNTPAZXB	2177	23	END	SPA
PHOENIX	PHNXAZNA	5101	77	END	
MARBLE CANYON	MRCNAZXC	2171	5	END	ALL
PHOENIX	PHNXAZMA	5101	95	END	
MCNARY	MCNRAZXC	2177	24	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	76	END	

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.2 Single State Interconnection Information (Cont'd)

LOCALITY	LC	CC	BP	OI	SVC
MEADVIEW	MDVWAZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	
MEADVIEW	MDVWAZXC	2172	56	END	SPA
PHOENIX	PHNXAZMA	5101	44	END	
MOHAVE VALLEY	MHVYAZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	
MOHAVE VALLEY	MHVYAZXC	2172	50	END	SPA
PHOENIX	PHNXAZMA	5101	50	END	
MOHAVE VALLEY	MHVYAZXC	2172	36	END	SPA
PRESCOTT	PRSCAZMA	5101	64	END	
MORMAN LAKE	MMLKAZXC	2171	4	END	ALL
PHOENIX	PHNXAZMA	5101	96	END	
PEACH SPRINGS	PCSPAZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	
PEACH SPRINGS	PCSPAZXC	2172	52	END	SPA
PHOENIX	PHNXAZMA	5101	48	END	
PEARCE	PERCAZXC	2176	9	END	ALL
TUCSON	TCSNAZMA	5101	91	END	
PINEDALE	PNDLAZXC	2177	23	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	77	END	
PINETOP	PNTPAZXC	2177	17	END	SPA
FLAGSTAFF	FLGSAZMA	5101	83	END	
PINETOP	PNTPAZXA	2177	22	END	SPA
MESA	MESAAZMA	5101	78	END	
PINETOP	PNTPAZXA	2177	23	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	77	END	

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.2 Single State Interconnection Information (Cont'd)

LOCALITY	LC	CC	BP	OI	SVC
PINETOP	PNTPAZXC	2177	16	END	SPA
FLAGSTAFF	FLGSAZMA	5101	84	END	
PINETOP	PNTPAZXC	2177	21	END	SPA
MESA	MESAAZMA	5101	79	END	
PINETOP	PNTPAZXC	2177	22	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	78	END	
POLACCA	PLCCAZXC	2175	20	END	ALL
PHOENIX	PHNXAZMA	5101	80	END	
PORTAL	PRTLAZXC	2176	45	END	ALL
TUCSON	TCSNAZMA	5101	55	END	
RIVIERA	RVRAZZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	
RIVIERA	RVRAAZXC	2172	53	END	SPA
PHOENIX	PHNXAZMA	5101	47	END	
ROOSEVELT LAKE	RSVTAZXC	2171	26	END	ALL
PHOENIX	PHNXAZMA	5101	74	END	
SAN SIMON	SNSMAZXC	2176	35	END	ALL
TUCSON	TCSNAZMA	5101	65	END	
SANTA ROSA	SNRSAZXA	2173	61	END	ALL
TUCSON	TCSNAZMA	5101	39	END	
SASABE	SASBAZXC	2171	20	END	ALL
TUCSON	TCSNAZMA	5101	80	END	
SELLS	SLLSAZXA	2173	44	END	ALL
TUCSON	TCSNAZMA	5101	56	END	
SHOW LOW	SHLWAZXC	2177	14	END	SPA
FLAGSTAFF	FLGSAZMA	5101	86	END	

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.2 Single State Interconnection Information (Cont'd)

LOCALITY	LC	CC	BP	OI	SVC
SHOW LOW	SHLWAZXC	2177	18	END	SPA
MESA	MESAAZMA	5101	82	END	
SHOW LOW	SHLWAZXC	2177	19	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	81	END	
SHOW LOW	SHLWAZXC	2177	19	END	SPA
TEMPE	TEMPAZMA	5101	81	END	
SNOWFLAKE	SNWFAZXC	2177	26	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	74	END	
SPRINGERVILLE	SPVLAZXC	2177	32	END	SPA
FLAGSTAFF	FLGSAZMA	5101	68	END	
SPRINGERVILLE	SPVLAZXC	2177	41	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	59	END	
SUNIZONA	SNZNAZXC	2176	17	END	ALL
TUCSON	TCSNAZMA	5101	83	END	
SUPAI	SUPAAZXC	2171	22	END	OPH
PHOENIX	PHNXAZMA	5101	78	END	
SUPAI	SUPAAZXC	2171	39	END	SPA
PRESCOTT	PRSCAZMA	5101	61	END	
SAINT JOHNS	STJHAZXC	2177	32	END	SPA
FLAGSTAFF	FLGSAZMA	5101	68	END	
SAINT JOHNS	STJHAZXC	2177	40	END	SPA
MESA	MESAAZMA	5101	60	END	
SAINT JOHNS	STJHAZXC	2177	41	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	59	END	

(continued)

ACCESS SERVICE

14. Wire Center and Interconnection Information (Cont'd)

14.2 Single State Interconnection Information (Cont'd)

LOCALITY	LC	CC	BP	OI	SVC
TONTO BASIN	TNBSAZXC	2171	11	END	ALL
PHOENIX	PHNXAZMA	5101	89	END	
WEST SAN SIMON	SNRSAZXC	2173	62	END	ALL
TUCSON	TCSNAZMA	5101	38	END	
WHITERIVER	WHRVAZXC	2177	28	END	SPA/SWD
PHOENIX	PHNXAZMA	5101	72	END	
WIKIEUP	WIKPAZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	
WIKIEUP	WIKPAZXC	2172	50	END	SPA
PHOENIX	PHNXAZMA	5101	50	END	
YUCCA	YUCCAZXC	2172	100	END	SWA
AUBREY PEAK	AYPEAZQZ	5101	0	END	
YUCCA	YUCCAZXC	2172	46	END	SPA
PHOENIX	PHNXAZMA	5101	54	END	

(continued)

ACCESS SERVICE

15. Advanced Communications Networks

15.1 General

This section contains the rules and regulations pertaining to the provision of Advanced Communications Networks. The regulations and rates specified herein are in addition to applicable regulations and rates specified in other sections of this tariff.

15.2 DS1 Cyber Service (T)

15.2.1 Definitions

Channel Service Unit (CSU) - The term CSU denotes network channel terminating equipment provided by the customer to terminate digital channel facilities on a customer's premises.

DS1 Cyber Capacity - A DS1 signal between the customer premises and the central office. This digital link can be used to transport switched data services. DS1 Cyber is available in increments of 24 digital channels. (T) (T)

DS0 - The term DS0 denotes a channel service expressed in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It is generally referred to as having a 64 Kbps transmission bit rate signal; however, customer transmitted bit rates are limited to 56 Kbps. The required format and interface specifications are stated in Section 7000 of the Technical Interface Reference Manual.

DS1 - The term DS1 denotes a channel service expressed in terms of its digitally encoded bit rate in accordance with the North American hierarchy of digital signal levels. It has a 1.544 Mbps transmission data rate and provides for the two-way simultaneous transmission of isochronous timed bit stream format. Unframed signal formats are not permitted or compatible with utility equipment. The required format and interface specifications are stated in Section 7000 of the Technical Interface Reference Manual.

(continued)

ACCESS SERVICE

15. ADVANCED COMMUNICATIONS NETWORKS (Cont'd)

15.2 DS1 Cyber Service (Cont'd)

15.2.2 General

(A) DS1 Cyber is a unique DS1 service designed specifically for Internet Service Providers (ISPs). This service packages 24 two-way trunks into a single "trunk-side" DS1 digital local service. Multiple DS1 Cyber's may be provided in a DS1 Cyber Arrangement to provide the ISP with as many trunks as desired, in increments of 24.

(B) DS1 Cyber Service provides network dial tone service between a customer's premises and the local serving office on a channelized basis (DS0) over a single high-capacity (DS1) digital facility that terminates on the trunk side of the switch in the local serving office. DS1 Cyber is available for data dialed access use.

(C) DS1 Cyber is provided in capacity increments of 24 digital channels within a single DS1 (1.544 Mbps) signal.

(D) DS1 Cyber provides a trunk side DS1 connection with 24 channels. DS1 Cyber does not provide the function of analog to digital (or vice versa) conversions and no service types can be specified on the DS1. (T)

(E) DS1 Cyber is comprised of a DS1 Cyber Capacity component: (T)

(1) The DS1 Cyber Capacity will be at the rates and charges as specified in 15.2.5.

(2) DS1 Cyber customers will have to select capacity in increments of 24 digital channels.

(3) DS1 Cyber Credit – For each increment of 24 channels, a credit equal to 100% of the applicable interstate Subscriber Line Charge will be applied to 22 of the 24 channels. (T)

(F) DS1 Cyber differs in provisioning method and numbering format from end-to-end services. These services will be available from the utility on a link basis rather than as an end-to-end service. This architecture is intended to promote more efficient connectivity of analog and digital networks. (T)

(continued)

ACCESS SERVICE

15. ADVANCED COMMUNICATIONS NETWORKS (Cont'd)

15.2 DS1 Cyber Service (Cont'd) (T)

(G) DS1 Cyber will be available on a digital basis at the network interface on a customer's premises. Both the utility and the customer have joint responsibilities to ensure the proper transmission of the provided services. Normal analog channel network interface specifications will be superseded by the electrical specifications on the 1.544 Mbps (DS1) channel which is actually terminated. Each digital channel provided will have an identity only as a "time slot" within a DS1 channel. Compatible digital to analog conversion equipment must be provided by the customer to derive the desired analog services. Any Channel Service Units (CSUs) necessary for digital services are the responsibility of the customer. (T)

(H) Rates for providing DS1 Cyber Service to a customer's location in another Frontier Communications of the Southwest, Inc., wire center will be determined on an Individual Case Basis (ICB) and filed in Section 15.3. (T)

(I) See Schedule No. AC, Rule No. 21, for termination liability rules.

(continued)

ACCESS SERVICE

15. ADVANCED COMMUNICATIONS NETWORKS (Cont'd)

15.2 DS1 Cyber Service (Cont'd) (T)

15.2.3 Regulations

(A) DS1 Cyber is furnished subject to the availability of facilities from digital central office equipment located in a central office building owned or leased by the utility. Clear Channel Capability (B8ZS) will be provided at no charge where available. (T)

(B) DS1 Cyber is available within an exchange where appropriate digital facilities are available as determined by the utility. Service inquiries will be necessary to determine availability. Special Construction Charges as specified in Section 13 may be applicable. (T)

(C) All DS1 Cyber must be channelized in a single equipment location on a customer's premises. DS1 Cyber cannot be split between premises, or multiple locations within a premises. Standard network interfaces, without Integrated Services Digital Network (ISDN) signaling and without any line type features (e.g., call forwarding, three-way calling), will be provided by the utility for analog and digital services consistent with existing practices. (T)

(D) The technical specifications and standard network interface for DS1 and associated channelized services are stated in Section 7000 of the Technical Interface Reference Manual.

(continued)

ACCESS SERVICE

15. ADVANCED COMMUNICATIONS NETWORKS (Cont'd)

15.2 DS1 Cyber Service (Cont'd) (T)

15.2.4 Application of Rates

(A) The DS1 Cyber Capacity rate is applicable to each DS1 Cyber. (T)

(B) The DS1 Cyber Capacity element provides the network facility to the customer premises and the central office channelization. (T)

(C) Transfer of service responsibility between customers is permitted subject to the rules and regulations as specified in Section 2.1.2.

(D) Unless specified herein, rules and regulations contained in other sections of this tariff are also applicable to DS1 Cyber Service. (T)

15.2.5 Rates and Charges

	Monthly Rate	Nonrecurring Charge	
DS1 Cyber Capacity, each [1]		$ 500.00	(T)
Month-to-Month	$ 750.00		
1 Year Term	725.00		
2 Year Term	675.00		
3 Year Term	600.00		

[1] For each increment of 24 channels, a credit equal to 100% of the applicable interstate Subscriber Line Charge will be applied to 22 of the 24 channels.

(continued)

ACCESS SERVICE

15. ADVANCED COMMUNICATIONS NETWORKS (Cont'd)

15.3 Individual Case Filing

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE

16.1 General

Frontier Communications of the Southwest, Inc., (hereafter referred to as the Company) shall provide collocation services in accordance with, and subject to, the terms and conditions of this tariff and any additional applicable regulations in other Company tariffs. The Company shall provide collocation services under this tariff only to those parties which have an effective interconnection agreement with the Company for this state under Sections 251 and 252 of the Telecommunications Act of 1996 (ACT), or have adopted such an agreement pursuant to Section 252(i) thereof. Requesting carriers may also seek to negotiate rates, terms, and conditions that are in addition to, or different from, the rates, terms, and conditions in this tariff to the extent permitted by applicable law. As required by applicable law, the Company shall also offer rates, terms, and conditions for collocation services that are not expressly addressed in this tariff or other Company tariffs on Bona Fide Request ("BFR") basis, and in doing so, shall comply with all applicable federal or state requirements. By agreeing to the rates, terms, and conditions of this tariff or the collocation of any equipment hereunder: (1) the Company does not waive, and expressly reserves, its rights to continue to challenge the legality of the FCC Collocation Order (Docket No. 98-147) and to take further action regarding this matter as future circumstances warrant; (2) the Company does not intend to, and therefore does not establishment any precedent, waiver, course of dealing or in any way evidence the Company's position or intent with regard to future collocation requests; and (3) the Company specifically reserves the right to incorporate herein the decision by the United States Court of Appeals for the District of Columbia Circuit on March 17, 2000 and any other subsequent court decisions affecting rules adopted by the FCC to implement collocation under Section 251 of the Telecommunications Act of 1996 (See, GTE Service Corporation, et. al. v. Federal Communications Commission and United States of America, No. 99-1176, consolidated with No. 99-1201, 2000 U.S. App. LEXIS 4111 (D.C. Cir. 2000).

Wholesale services offered under this tariff will be offered consistent with obligations under the FCC's decision to deregulate resale services, UNE loops, and UNE transport. *See Petition for Forbearance Pursuant to 47 U.S.C. § 160(c) to Accelerate Investment in Broadband and Next Generation Networks,* WC Docket No. 18-141, Memorandum Opinion and Order, 34 FCC Rcd 6503 (Aug. 2, 2019); *Business Data Services, Report and Order on Remand and Memorandum Opinion Order,* WC Docket Nos. 18-141 et al., 34 FCC Rcd 5767 (rel. July 12, 2019). CLECs and local service resellers may continue to order UNE transport under this Tariff through January 12, 2020, and resale services and analog UNE Loops under this Tariff through February 2, 2020. The Telco will not accept orders for UNE transport under this Tariff after January 12, 2020, or resale services or analog UNE loops under this Tariff after February 2, 2020. Resale services and analog UNE loops ordered after February 2, 2020 will be provided pursuant to an alternative commercial agreement no later than July 12, 2022, and embedded base resale services and analog UNE loops must be transitioned to an alternative commercial agreement no later than August 2, 2022.

Effective October 13, 2021, UNE DS3 loop orders will no longer be accepted in competitive counties published at: https://www.fcc.gov/bds-competitive-and-noncompetitive-lists (or relevant successor site). Effective February 8, 2024, existing UNE DS3 loops will be sunset and will no longer be offered under the tariff. Customers must contact Frontier for an alternative commercial agreement. Effective October 13, 2021, UNE dark fiber transport orders will no longer be accepted under the tariff for routes in which both the "to" and "from" wire centers are on the list published at: https://www.fcc.gov/clli-code-list (or relevant successor site). Effective February 8, 2029, UNE dark fiber transport circuits that were ordered prior to October 13, 2021 are on routes in which both the "to" and "from" wire centers are on the list published at: https://www.fcc.gov/clli-code-list (or relevant successor site), will no longer be available under the tariff. Please contact Frontier for potential alternative commercial arrangements. UNE dark fiber transport orders will continue to be accepted under the tariff only for routes in which either the "to" or "from" wire centers (or both) are not on the list published at: https://www.fcc.gov/clli-code-list. (N)(L) (N)(L)

(L) Material relocated to Page 423.1. (N)

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE

16.1 General

16.1.2 Collocation provides for access to the Company's premises for the purpose of interconnection and/or access to unbundled network elements, including, its central offices, serving wire centers and all other buildings or similar structures owned, leased, or otherwise controlled by the Company that house the Company's network facilities. (L)

16.1.3 Collocation shall be accomplished through Caged, Cageless, Virtual, or Microwave Collocation, except in those instances where it is not practical for technical reasons or due to space limitations. In such cases, the Company shall provide Adjacent Collocation or other methods of collocation, subject to space availability and technical feasibility.

16.1.4 The provision of Collocation by the Company, as set forth in this tariff, does not constitute a joint undertaking with the Competitive Local Exchange Carrier (CLEC) for the furnishing of the services. In addition, the regulations, terms and conditions of this tariff do not apply to any CLEC offering of services to its subscribers. (L)

(L) Material relocated from Page 423. (N)

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.2 Description of Types of Collocation (T)

16.2.1 Single Caged (L)

A single caged arrangement is a form of caged collocation, which allows a single CLEC to lease caged floor space to house its equipment within a Company premises. Additional details on single caged collocation are set forth in the Company's Collocation Services Packet, described in Section 16.3.1 below. (L)

16.2.2 Shared Caged

A shared caged arrangement is a newly constructed caged collocation arrangement that is jointly applied for and occupied by two or more CLECs within a Company premises. When two or more CLECs request establishment and jointly apply for a new caged collocation arrangement to be used as a shared caged arrangement, one of the participating CLECs must agree to be the Host CLEC (Host) and the other(s) to be the Guest CLEC (Guest).

The Host and Guest(s) are solely responsible for determining whether to share a shared cage collocation arrangement and if so, upon what terms and conditions. The Host and Guest(s) must each be interconnected to the Company for the exchange of traffic with the Company and/or to access unbundled network elements. The Company will not issue separate billing for any of the rate elements associated with the shared caged collocation arrangement between the Host and the Guest(s), but the Company will provide the Host with information on the proportionate share of the non-recurring charges for each CLEC in the shared arrangement. The Host will be responsible for ordering and payment of all collocation applicable services ordered by the Host and Guest(s). Each Host and Guest will be responsible for ordering their own unbundled network elements from the Company. The Company will separately bill the Host and/or Guest(s) for unbundled network elements ordered.

The Host CLEC and Guest(s) are the Company's customers and have all the rights and obligations applicable hereunder to CLECs purchasing collocation-related services, including, without limitation, the obligation to pay all applicable charges, whether or not the Host is reimbursed for all or any portion of such charges by the Guest(s). All terms and conditions for caged collocation as described in this tariff will apply to shared caged collocation requirements. Additional details on shared caged collocation are set forth in the Company's Collocation Service Packet, described in Section 16.3.1 following.

16.2.3 Subleased Caged

Vacant space available in a CLEC's existing caged collocation arrangement may be made available to a third party for the purpose of interconnection and/or for access to unbundled network elements in the Company's premises via the subleasing collocation arrangement. Details of subleasing collocation arrangements are set forth in the Company's Collocation Support Packet. The CLEC subleases floor space to the third party pursuant to terms and conditions agreed to by the CLEC and third party involved. The CLEC and third party must each be interconnected to the Company for the exchange of traffic with the Company and/or to access unbundled network elements. The CLEC is solely responsible for determining whether to sublease a caged collocation arrangement and if so, upon what terms and conditions. The Company will not issue separate billing for any of the rate elements associated with the subleased caged collocation arrangements between the CLEC and the third party. The CLEC will be responsible for ordering and payment of all collocation applicable services ordered by the CLEC and the third party/parties.

(L) Material relocated from A.C.C. Sheet No. 423. (N)

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.2 Description of Types of Collocation (Continued)

16.2.3 Subleased Caged (Continued)

Each CLEC and third party will be responsible for ordering their own unbundled network elements from the Company. The Company will separately bill the CLEC and third party/parties for unbundled network elements ordered. The CLEC and third party/parties are the Company's customers and have all the rights and obligations applicable hereunder to CLEC customers purchasing collocation-related services, including, without limitation, the obligation to pay all applicable charges, whether or not the CLEC is reimbursed for all or any portion of such charges by the third party/parties. All terms and conditions for caged collocation as described in this Tariff will apply to subleased caged collocation requirements. Additional details on subleased caged collocation are set forth in the Company's Collocation Services Packet, described in Section 16.3.1 below.

16.2.4 Cageless

Cageless collocation is a form of collocation in which CLECs can place their equipment in Company premises space. A cageless collocation arrangement allows a CLEC, using Company approved vendors, to install equipment in single bay increments in an area designated by the Company. The equipment location will be designated by the Company and will vary based on individual premises configurations. CLEC equipment will not share the same equipment bays with Company equipment. Additional details on cageless collocation are set forth in the Company's Collocation Services Packet, described in Section 16.3.1 below.

16.2.5 Adjacent

An adjacent collocation arrangement permits a CLEC to construct or procure a structure on Company property for collocation for the purposes of provisioning expanded interconnection and/or access to unbundled network elements in accordance with the terms and conditions of this tariff. Adjacent collocation is only an option when the following conditions are met:

- Space is legitimately exhausted in the Company's premises for caged and cageless collocation; and
- It is technically feasible to construct or procure a hut or similar structure on Company property that adheres to local building code, zoning requirements, and Company building standards.

The CLEC is responsible for complying with all zoning requirements, any federal, state or local regulations, ordinances and laws, and obtaining all associated permits. The Company may, where required, participate in the zoning approval and permit acquisitions. The CLEC may not take any action in establishing an adjacent structure that will force the Company to violate any zoning requirements or any federal, state or local regulations, ordinances, or laws.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.2 Description of Types of Collocation (Continued)

16.2.5 Adjacent (Continued)

Any construction by the CLEC on Company property must comply with Company technical specifications as they relate to environmental safety and grounding requirements set forth in the Company's Collocation Services Packet. The Company will make available power and physical collocation services to the CLEC in the same non-discriminatory manner as it provides to itself for the Company's own Remote Equipment Building (REBs).

Additional details on adjacent collocation are set forth in the Company's Collocation Services Packet, described in Section 16.3.1 below.

16.2.6 Virtual

Under Virtual Collocation, the Company installs and maintains CLEC provided equipment, which is dedicated to the exclusive use of the CLEC in a collocation arrangement. Additional details on Virtual Collocation are set forth in Section 16.12.

16.2.7 Microwave

Physical collocation of microwave transmission facilities will be permitted on a first-come, first-served basis except where such collocation is not practical for technical reasons or because of space limitations. Microwave collocation provides for the interconnection of CLEC or Company provided facilities, equipment and support structures located in, on or above the exterior walls and roof of Company premises. Additional details on Microwave Collocation are set forth in Section 16.13.

16.3 Ordering Conditions

16.3.1 Application

(A) Point of Contact/Collocation Services Packet

The Company will establish points of contact for the CLEC to place a request for collocation. The point of contact will provide the CLEC with the Collocation Services Packet, which shall contain general information and requirements, including a list of engineering and technical specifications, fire, safety, security policies and procedures, and an application form.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.3 Ordering Conditions (Continued)

16.3.1 Application (Continued)

(B) Application Form/Fee

CLECs requesting collocation at a premises will be required to complete the application form and submit the non-refundable engineering fee set forth in Section 16.16 following for each premises at which collocation is requested. The application form will require the CLEC to provide information for all engineering, floor space, power, environmental and other requirements necessary for the function of the service. The CLEC will also provide the Company with specifications for any non-standard or special requirements at the time of application. The Company reserves the right to assess the CLEC any additional charges not included in Section 16.16 following on an individual case basis (ICB) associated with complying with the application request.

The Company will process collocation requests form CLECs on a first-come, first-served basis pursuant to the Company's receipt of a completed application form and the non-refundable engineering fee.

(C) Changes

The first application form submitted by the CLEC shall be designated the original application. Original applications for collocation arrangements that have not been inspected and approved by the CLEC are subject to requests for minor or major changes to the services requested in the application. Changes will not be initiated until a completed application has been submitted along with the appropriate Engineering Fee, if applicable.

Major changes are requests that add telecommunications equipment that requires additional AC or DC power systems; heating, ventilation and air conditioning (HVAC) system modifications; or change the size of the cage. At the election of the CLEC, major changes may be handled in one of the following two methods to the extent technically feasible.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.3 Ordering Conditions (Continued)

16.3.1 Application (Continued)

(C) Changes (Continued)

(1) Method 1: Additional Application

The CLEC may elect to have a major change to its original collocation application treated by the Company as an additional (new) application. An additional application is subject to the same provisioning process and conditions as an original application. On receipt of a complete additional application and Engineering Fee, the Company will notify the CLEC in writing within eight (8) business days following receipt of the completed additional application if the CLEC's additional requirements cannot be accommodated as specified. Filing an additional application does not change the Company's obligation to process and fulfill the original application nor does it change the time intervals applicable to the processing and fulfillment of the original application. All of the provisions herein applicable to an original application similarly apply to an additional application.

(2) Method 2: Supplemental Application

The CLEC may elect to have a major change to its original collocation application treated by the Company as a supplemental application. A supplemental application may affect the Company's obligation to process and fulfill the original application. On receipt of a supplemental application and Engineering Fee, the Company will notify the CLEC in writing within eight (8) business days following receipt of the completed supplemental application if the CLEC's requirements cannot be accommodated as specified. Upon notification that the Company can accommodate the requirements of the supplemental application, the CLEC may elect to proceed with the supplemental application. The Company's obligations under the original application will be merged with the obligations of the supplemental application and the combined project time line will be based on the date the supplemental application was received. All of the provisions herein applicable to an original application similarly apply to a supplemental application, upon notification to the Company.

Minor changes are those requests that do not require additional AC or DC power systems, HVAC system upgrades, or changes in cage space. The CLEC will be required to submit a revised application, but the time intervals for the project will not change.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.3 Ordering Conditions (Continued)

16.3.2 Space Availability

Subject to forecasting requirements, the Company will inform the CLEC whether space is available to accommodate the CLEC's request within eight (8) business days after receipt of an application form. The Company's response will be one of the following:

(A) There is space and the Company will proceed with the arrangement.
(B) There is no space. The Company will proceed in accordance with tariff provisions pertaining to verification of space limitations.
(C) There is no readily available space, however, the Company will determine whether space can be made available and will notify the CLEC within twenty (20) business days. At the end of this period, the Company will proceed as described in (A) or (B) above.

16.3.3 Collocation Schedule

If space is available, the Company will provide to the CLEC a collocation schedule describing the Company's ability to meet the physical collocation request within eight (8) business days. The CLEC shall have nine (9) business days from receipt of a Company provided collocation schedule to pay 50% of the applicable non-recurring charges associated with the ordered collocation services.

If the application is deficient, the Company will specify in writing, within eight (8) business days, the information that must be provided by the CLEC in order to complete the application. A CLEC that resubmits a revised application curing any deficiencies in its original application within ten (10) calendar days after being informed of them shall retain its position within the collocation application queue.

16.3.4 ASR

Upon notification of available space, the CLEC will be required to send a completed Access Service Request (ASR) form to the Company's collocation point of contact. A copy of an ASR form is included in the Collocation Services Packet.

16.3.5 Augmentation

All requests for an addition or change to an existing collocation arrangement that has been inspected and turned over to the CLEC is considered an augmentation. An augmentation request will require the submission of a complete application form and a non-refundable Engineering or Minor Augment fee. A Minor Augment fee may not be required under certain circumstances outlined below. The definition of a major or minor augment is as follows:

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.3 Ordering Conditions (Continued)

16.3.5 Augmentation (Continued)

(A) Major Augments are those requests that require AC or DC power, add equipment that generates more BTUs of heat, or required an increase in floor space, over what the CLEC requested in its original application. A complete application and Engineering Fee will be required when submitting a request that requires a major augment.

(B) Minor augments that require an augment fee are those requests that require the Company to perform a service or function on behalf of the CLEC including but not limited to: installation of Virtual equipment cards or software upgrades, removal of Virtual equipment, requests to pull cable from exterior microwave facilities, and requests to terminate DSO, DS1, and DS3 cables.

Minor Augments of caged and cageless collocation arrangements will require the submission of a complete application form and the Minor Augment Fee. Minor augments are those requests that do not require more AC or DC power, add equipment that generates more BTUs of heat, or increase the caged floor space, over what the CLEC requested in its original application. The requirements for a minor augment request can not exceed the capacity of the existing electrical/power or HVAC system. Requests for additional DSO, DS1, and DS3 cross connects for access to unbundled network elements are included as minor augments.

Minor augments that do not require a fee are those augments performed solely by the CLEC, that do not require the Company to provide a service or function on behalf of the CLEC, including but not limited to, requests to install additional equipment in the CLEC's cage. Prior to the installation of the additional equipment the CLEC agrees to provide the Company with an application form with an updated equipment listing that includes the equipment to be installed in the CLEC's collocation arrangement. Once the updated equipment list is submitted to the Company, the CLEC may proceed with the augment. The CLEC agrees that changes in equipment provided by the CLEC under this provision will not exceed the engineering specifications for power and HVAC as requested on the original application. All augments will be subject to Company inspection, in accordance with the terms of this tariff for the purpose of ensuring compliance with Company safety standards.

16.3.6 Expansion

The Company will not be required to construct additional space to provide for caged, cageless and/or adjacent collocation when available space has been exhausted. Where the CLEC seeks to expand its existing collocation space, the Company shall make contiguous space available to it to the extent possible. The Company does not guarantee contiguous space to the CLEC to expand its existing collocation space. CLEC requests for expansion of existing space within a specific premises will require the submission of an application form and the appropriate major augment fee.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.3 Ordering Conditions (Continued)

16.3.7 Relocation

CLEC requests for relocation of the termination equipment from one location to a different location within the same premises will be priced on an ICB basis. The CLEC will be responsible for all costs associated with the relocation of its equipment.

16.4 Installation and Operation

16.4.1 Joint Planning and Implementation Intervals for Physical Collocation

(A) The Company and the CLEC shall work cooperatively in meeting the standard implementation milestones and deliverables as determined during the joint planning process. The physical (Caged or Cageless) collocation arrangement implementation interval is seventy-six (76) business days for all standard arrangement requests which were properly forecasted six (6) months prior to the application date, subject to tariff provisions for forecasting and capacity. Major construction obstacles or special applicant requirements may extend the interval by fifteen (15) business days, resulting in a ninety-one (91) business day interval. The interval for collocation augments which were properly forecasted six (6) months prior to the application date, subject to tariff provisions for forecasting and capacity, is forty-five (45) business days where the necessary infrastructure is installed and available for use. Such augments are limited to the following:

(1) 800 2-wire voice grade terminations, or
(2) 400 4-wire voice grade terminations, or
(3) 600 line sharing/line splitting facilities, where line sharing/splitting already exists within the central office and where the CLEC is eligible for line sharing/line splitting, or
(4) 28 DS1 terminations, or
(5) 24 DS3 terminations, or
(6) 12 fiber terminations, or
(7) Conversion of 2-wire to 4-wire voice grade terminations (minimum of 100 – maximum of 800), or
(8) 2 feeds (1A and 1B) DC Power fused at 60 amps or less, or
(9) DC Power as defined in (8) preceding, plus any one (1) additional item as defined in (1) through (7) preceding; or two (2) of the following: (a) 28 DS1 terminations; (b) 3 DS3 terminations; or (c) 12 fiber terminations. The CLEC must have 100% of all cables terminated to the existing cross connects for the one additional item selected and the in-service capacity of that selection must be at 85% utilization or above, unless the CLEC can demonstrate to the Company that: (a) the previous two months trend in growth would exceed 100% of the available capacity by the end of the forty-five (45) business day augment interval; or (b) the CLEC can demonstrate other good cause or causes to the Company that the CLEC's cross-connect capacity may be exceeded by the end of the forty-five (45) business day augment interval.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4.1 Joint Planning and Implementation Intervals (Continued)

(B) For 2-wire to 4-wire voice grade conversions, all pairs must be spare and in consecutive 100 pair counts.

(C) The following standard implementation milestones will apply, in business days, unless the Company and CLEC jointly decide otherwise.

Day 1 - CLEC submits completed application and associated fee.
Day 8 - The Company notifies CLEC that request can be accommodated and advises of due date.
Day 17 - CLEC notifies the Company of its intent to proceed and submits 50% payment.
Day 30 - Material shipped is received at vendor warehouse; CLEC provided splitters delivered to vendor warehouse (Line Sharing Option C [1] only, and applicable only where the CLEC is eligible for line sharing/line splitting.)
Day 45 - Augment (as defined herein) completes.
Day 76 - The Company and CLEC attend a collocation acceptance meeting and the Company turns over the collocation arrangement to the CLEC. Day 76 also applies to completion of other augments not defined herein.

(D) The forty-five (45) business day interval is subject to the following requirements:

(1) Infrastructure to support the requested augment must be in place (e.g. cable racking from collocation space to distribution frames, relay racks for splitter shelves (Option C [1]), frame capacity for termination blocks, cable holes, fuse positions at existing BDFBs, etc.).

(2) The CLEC must install sufficient equipment in its collocation space to support the requested terminations/facilities.

(3) In large central office premises with complex cable runs (i.e. multiple floors), the Company may request to negotiate extensions to the forty-five (45) day interval.

(E) A preliminary schedule will be developed outlining major milestones. The CLEC and the Company control various interim milestones they must complete in order to meet the overall intervals. The interval clock will stop, and the final due date will be adjusted accordingly, for each milestone the CLEC misses (day for day). When the Company becomes aware of the possibility of vendor delays, the Company will first contact the CLEC to attempt to negotiate a new milestone interval date. If the Company and the CLEC cannot agree, the dispute will be submitted to the Commission for prompt resolution. The Company and CLEC shall conduct additional joint planning meetings, as reasonably required, to ensure that all known issues are discussed and to address any that may impact the implementation process. The Company will permit the CLEC to schedule one escorted visit to the CLEC's collocation space during construction. The applicable labor rates in Section 16.16 following will be applied for the escorted visit.

[1] Option C applicable to an approved Interconnection Agreement.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.1 Joint Planning and Implementation Intervals (Continued)

(E) (Continued)

In the case of extended intervals resulting from within the Company's control or resulting from vendor delays, and provided the necessary security is in place, the Company will permit the CLEC access to the collocation arrangement to install equipment while the delayed work is completed, so long as it is safe to do so and the CLEC work does not impair or interfere with the Company in completing the Company's work. Prior to the CLEC beginning the installation of its equipment, the CLEC must sign a conditional acceptance of the collocation arrangement. If the CLEC elects to accept the space prior to the scheduled completion, occupancy fees shall commence upon signing a conditional acceptance of the space by the CLEC.

(F) Intervals for non-standard arrangements, including, but not limited to, Adjacent collocation shall be mutually agreed upon by the CLEC and the Company.

(G) The Company will inform the Commission as soon as it knows it will require raw space conversion to fulfill a request based on an application or forecast. Raw space conversion timeframes are negotiated on an individual case basis based on negotiations with the site preparation vendor(s). The Company will use its best efforts to minimize the additional time required to condition collocation space, and will inform the CLEC of the time estimate as soon as possible.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.2 Forecasting and Use of Data

(A) The Company will request from the CLEC forecasts on a semi-annual basis, with each forecast covering a two-year period. The CLEC will be required to update the near-term (6-month) forecasted application dates. Information requested will include central office, month that applications are expected to be sent, requested in-service month, preference for Virtual or Physical (Caged or Cageless) collocation, square footage required (Caged), number of bays (Cageless), a high-level list of equipment to be installed (Virtual), and anticipated splitter arrangements where the CLEC is eligible for line sharing/line splitting. For augments, the CLEC may elect to substitute alternative CLLI codes within a LATA for the forecasted demand.

If the Company has a written guarantee of reimbursement, it will examine forecasts for offices in which it is necessary to condition space, and discuss these forecasts with CLECs to determine the required space to be conditioned. If the Company commits to condition space based on forecasts, CLECs assigned space will give the Company a non-refundable deposit equal to the application fee. The Company will perform initial reviews of requested central offices forecasted for the next six months to identify potential problem sites. The Company will consider forecasts in staffing decisions and will enter into planning discussions with forecasting CLECs to validate forecasts, discuss flexibility in potential trouble areas, and assist in application preparation.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.2 Forecasting and Use of Data (Continued)

(B) Unforecasted demand (including augments) will be given a lesser priority than forecasted demand. The Company will make every attempt to meet standard intervals for unforecasted requests. However, if unanticipated requests push demand beyond the Company's capacity limits, the Company will negotiate longer intervals as required (and within reason). Interval adjustments will be discussed with the CLEC at the time the application is received. In general, if forecasts are received less than two (2) months prior to the application date, the interval start day may be postponed as follows.

- No forecast: Interval Start Date commences two (2) months after application receipt date.
- Forecast received one (1) month or less prior to application receipt date: Interval Start Date commences two (2) months after application receipt date.
- Forecast received greater than one (1) month and less than two (2) months prior to application receipt date: Interval Start Date commences one (1) month after application receipt date.
- Forecast received two (2) months or more prior to application receipt date: Interval Start Date commences on the application receipt date.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.3 Collocation Capacity

(A) The Company's estimate of its present capacity (i.e. no more than an increase of 15% over the average number of applications received for the preceding three months in a particular geographic area) is based on current staffing and current vendor arrangements. If the forecasts indicate spikes in demand, the Company will attempt to smooth the demand via negotiations with the forecasting CLECs. If the Company and the CLEC fail to agree to smooth demand, the Company will determine if additional expenditures would be required to satisfy the spikes in demand and will work with the Commission Staff to determine whether such additional expenditure is warranted and to evaluate cost recovery options.

(B) If the Company augments its workforce based on CLEC forecasts, the CLECs refusing to smooth demand as described in the preceding section will be held accountable for the accuracy of their forecasts.

16.4.4 Vendor Capacity

The Company will continuously seek to improve vendor performance for all premises work, including collocation. Since the vendors require notice in order to meet increases in demand, the Company will share CLEC actual and forecasted demand with appropriate vendors, as required, subject to the appropriate confidentiality safeguards.

16.4.5 Responsibility for Vendor Delays

No party shall be excused from their obligations due to the acts or omissions of a Party's subcontractors, material, person, suppliers or other third persons providing such products or services to such Party unless such acts or omissions are the product of a Force Majeure Event, or unless such delay or failure and the consequences thereof are beyond the reasonable control and without the fault or negligence of the Party claiming excusable delay or failure to perform.

16.4.6 Space Preparation

(A) Cage Construction

For caged collocation, the Company will construct the cage with a standard enclosure or the CLEC may subcontract this work to a Company approved contractor.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.6 Space Preparation (Continued)

(B) Site Selection/Power

The Company shall designate the space within its premises where the CLEC shall collocate its equipment. The Company will assign collocation space to the CLEC in a just, reasonable, and nondiscriminatory manner. The Company will allow the CLEC requesting caged or cageless collocation to submit space preferences on the Application Form prior to assigning caged and cageless collocation space to the CLEC. The Company will assign caged and cageless space in accordance with the following standards: (1) The CLEC's collocation costs cannot be materially increased by the assignment; (2) The CLEC's occupation and use of the Company's premises cannot be materially delayed by the assignment; (3) The assignment cannot impair the quality of service or impose other limitations on the service the CLEC wishes to offer; and (4) The assignment cannot reduce unreasonably the total space available for caged and cageless collocation, or preclude unreasonably, caged and cageless collocation within the Company's premises.

The Company may assign caged and cageless collocation to space separate from space housing the Company's equipment, provided that each of the following conditions is met: (1) Either legitimate security concerns, or operational constraints unrelated to the Company's or any of its affiliates' or subsidiaries competitive concerns, warrant such separation; (2) Any caged and cageless collocation space assigned to an affiliate or subsidiary of the Company is separated from space housing the Company's equipment; (3) The separated space will be available in the same time frame as, or a shorter time frame than, non-separated space; (4) The cost of the separated space to the CLEC will not be materially higher than the cost of non-separated space; and (5) The separated space is comparable, from a technical and engineering standpoint, to non-separated space.

The Company shall provide, at the rates set forth in Section 16.15 following, 48V DC power with generator and/or battery back-up, AC convenience outlet, heat, air conditioning and other environmental support to the CLEC equipment in the same standards and parameters required for Company equipment within that premises. The Company will be responsible for the installation of the AC convenience outlets, overhead lighting and equipment superstructure per the established rates.

(C) DC Power

The Company will provide DC power to the collocation arrangement as specified by the CLEC in its Collocation application. The CLEC will specify the load on each feed and the size of the fuse to be placed on each feed. Charges for DC power will be applied based on the total number of load amps ordered on each feed.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.6 Space Preparation (Continued)

(C) DC Power (Continued)

For example, if a CLEC orders a total of 40 load amps of DC power and an A and B feed, the CLEC could order 20 load amps on the A feed and 20 load amps on the B feed. The Company will permit the CLEC to order a fuse size up to 2.5 times the load amps ordered provided that applicable law permits this practice. Thus, the CLEC could order that each feed be fused at 50 amps if the CLEC wants one feed to carry the entire load in the event the other feed fails. Accordingly, the CLEC will be charged on the basis of the total number of load amps ordered, i.e., 40 amps, and not based on the total number of amps available for the fuse size ordered.

The CLEC is responsible for engineering the power consumption in its collocation arrangements and therefore must consider any special circumstances in determining the fused capacity of each feed. The Company will engineer the power feeds to the Collocation arrangement in accordance with industry standards based upon requirements ordered by the CLEC in its collocation application. Any subsequent orders to increase DC power load at a Collocation arrangement must be submitted on a collocation application.

The Company reserves the right to perform random inspections to verify the actual power load being drawn by a Collocation arrangement. At any time, without written notice, the Company may measure the DC power drawn at an arrangement by monitoring the Company's power distribution point. In those instances where the Company needs access to the collocation arrangement to make these measurements, the Company will schedule a joint meeting with the CLEC.

(1) If the inspection reveals that the power being drawn does not exceed the total number of load amps ordered, no further action will apply. (T)

(2) If the inspection reveals that the power being drawn is within the applicable buffer zone, as defined in this subsection, that arrangement is subject to the following treatment: (T)

(a) The Company will provide the CLEC with written notification, by certified US mail to the person designated by the CLEC to receive such notice, that more power is being drawn than was ordered. Within ten (10) business days of the date of receipt of notification, the CLEC must reduce the power being drawn to match its ordered load or revise its power requirement to accommodate the additional power being drawn. The Company will accept a certification signed by a representative of the CLEC that power consumption has been reduced to match the ordered load. Failure to reduce the power being drawn or submit a revised application within ten (10) business days will result in an increase in the amount of power billed to reflect the audited load amount.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.6 Space Preparation (Continued)

(C) DC Power (Continued)

(2) (Continued)

(b) For a collocation arrangement that has 100 amps or less fused, the buffer zone for the first two violations during a consecutive twelve (12) month period will be 120% of load, as long as the second violation is not for the same collocation arrangement as the first. For any subsequent violations, or if the second violation is for the same collocation arrangement, and for any violation where the collocation arrangement has more than 100 amps fused, the buffer zone will be 110% of load.

(3) If the first inspection reveals that the power being drawn is greater than the applicable buffer zone specified in Section 2.b. preceding, that arrangement is subject to the following treatment:

(a) The Company will notify the person designated by the CLEC to receive such notice via telephone or e-mail that the Company will take a second measurement no sooner than one (1) hour and no later than two (2) days after the initial inspection. The Company will not wait for the CLEC or require it to be present during the second inspection.

(b) The Company will assess a nonrecurring charge for the additional labor to perform this inspection. The nonrecurring charge applies for the first half hour (or fraction thereof) and for each additional half hour (or fraction thereof) per technician, per occurrence as shown in Section 16.16.51 following.

(c) The CLEC may perform its own inspection at the CLEC's cage. The CLEC is not required to wait for the Company or require it to be present during the CLEC test. Upon request of the CLEC, the Company will send a representative to accompany the CLEC to conduct a joint inspection at the CLEC cage at no charge to the CLEC. Nothing herein shall be construed to prohibit the CLEC from testing at its own cage. The CLEC will send the results of its own audit measurements to the Company if they are taken in response to a notice of violation under this section and if the CLEC's measurements differ from the Company's.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.6 Space Preparation (Continued)

(C) DC Power (Continued)

(3) (Continued)

(d) If the second test also exceeds the applicable buffer zone, the Company will provide the CLEC with written notification, within ten (10) business days, by certified U.S. mail to the person designated by the CLEC to receive such notice that it has exceeded its ordered power. The notification will include: (1) initials or identifying number of the Company technician(s) who performed the inspection; (2) dates and times of the inspections; (3) the make, model and type of test equipment used; (4) the length of monitoring and the results of the specific audit; (5) the total load amps currently being billed; (6) how the test was done; and (7) any other relevant information or documents.

(e) The Company will maintain a file of results taken of the inspections for two (2) years. The file will be made available to the CLEC upon request. The Company will treat as confidential information the identity of CLECs that it audits as well as the results of such audits, unless it receives prior written consent of the subject CLEC to disclose such information. The foregoing does not preclude the Company from making the notice described in paragraph f. following.

(f) If the CLEC disagrees with the results of the audit, it will first notify the Company. The Company and the CLEC will make a good faith effort to resolve the issue. If the parties do not resolve the issue, either party can invoke the dispute resolution processes reflected in the interconnection agreement. The dispute resolution process can be initiated by either party after thirty (30) calendar days have elapsed. This period commences: (1) ten (10) business days from receipt of the notification, in the case of violation within the buffer zone; or (2) after the CLEC has received notice of the second test, in the case of a violation over the buffer zone.

(g) With the notification required by subparagraph C.3.d., the Company will also notify the CLEC that it must submit a non-scheduled attestation of the power being drawn at each of its remaining collocation arrangements. The CLEC must submit this non-scheduled attestation within fifteen (15) business days of the date of this notification. Failure to submit this non-scheduled attestation will result in the application of additional labor charges for any subsequent DC power inspections the Company performs prior to receipt of the next scheduled attestation. Scheduled attestations are defined in this section.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.6 Space Preparation (Continued)

(C) DC Power (Continued)

(4) If the inspection reveals that the power being drawn is greater than the applicable buffer zone, then the penalty will be as follows.

(a) For the first such violation within the same consecutive twelve (12) month period, the CLEC will be billed the audited load amount for four (4) months. The CLEC will pay a separate and additional penalty as a contribution to the American Red Cross, measured as the difference between the billing of the fused capacity and the billing at the audited load for four (4) months. The CLEC must send notice of its American Red Cross payment to the Company within ten (10) calendar days of making the payment.

(b) For the second such violation within the same consecutive twelve (12) month period, the CLEC will be billed the audited load amount for five (5) months. The CLEC will pay a separate and additional penalty as a contribution to the American Red Cross, measured as the difference between the billing of the fused capacity and the billing at the audited load for five (5) months. The CLEC must send notice of its American Red Cross payment to the Company within ten (10) calendar days of making the payment.

(c) For the third such violation within the same consecutive twelve (12) month period, the CLEC will be billed the audited load amount for six (6) months. The CLEC will pay a separate and additional penalty as a contribution to the American Red Cross, measured as the difference between the billing of the fused capacity and the billing at the audited load for six (6) months. The CLEC must send notice of its American Red Cross payment to the Company within ten (10) calendar days of making the payment.

(d) For more than three (3) violations within the same consecutive twelve (12) month period, the Company will bill at the fused amount for a minimum of six (6) months and continue to bill at the fused amount until an updated attestation or augment specifying revised power is received, and nothing will be required to be contributed to the American Red Cross.

(e) The Company will notify the CLEC that it is being billed under a penalty situation, designating the applicable number of months and also calculating the penalty that should be contributed to the American Red Cross, under the provisions set forth preceding.

(Continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.6 Space Preparation (Continued)

(C) DC Power (Continued)

(5) At the conclusion of any dispute resolution proceeding, the above penalties (including the revised billing) will be self-executing.

(6) If the CLEC has requested a power augment under which the audited amount would be within the augmented load, plus the applicable buffer zone, and the augment is late due to the fault of the Company, the penalty will not be imposed and the parties will not count this instance for purposes of determining what type of penalty to impose.

Annually, the CLEC must submit a written statement signed by a responsible officer, which attests that the CLEC is not exceeding the total load of power ordered in its collocation applications. This attestation, which must be received by the Company no later than the last day of June, shall individually list all of the CLEC's completed Collocation arrangements provided by the Company in the state. If the CLEC fails to submit this written statement by the last day in June, the Company will notify the CLEC in writing that it has thirty (30) calendar days to submit its power attestation. Failure to submit the required statement within the 30 calendar day notice period will result in the billing of the total number of amps of DC power at each Collocation arrangement.

Whenever the Company is required to perform work on an collocation arrangement as a result of a CLEC's order for a reduction in power requirements (e.g., change in fuse size), the Company will assess a nonrecurring labor charge. The nonrecurring charge applies for the first half-hour (or fraction thereof) and for each additional half-hour (or fraction thereof) per technician, per occurrence as shown in Section 16.16.51 following.

If the CLEC orders a change in the power configuration requiring new -48 volt DC power feeds to the Collocation arrangement, the Company will require an Engineering/Major Augment Fee with an application as set forth in Section 16.15.1 following, subject to the terms and conditions described in Section 16.3.5. In addition, if a CLEC's order for a reduction in DC power requires the deployment of power cabling to a different power distribution point, the Engineering/Major Augment Fee as set forth in Section 16.16.1 following applies. The Company will work cooperatively with the CLEC to configure the new power distribution cables and disconnect the old ones.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.7 Equipment and Facilities

(A) Purchase of Equipment

The CLEC will be responsible for supply, purchase, delivery, installation and maintenance of its equipment and equipment bay(s) in the collocation area. If the CLEC chooses, the Company will assist the CLEC in the purchase of equipment by establishing a contact point with Frontier Communications of the Southwest, Inc. The Company is not responsible for the design, engineering, or performance of CLEC equipment and provided facilities for collocation. Upon installation of all transmission and power cables for collocation services, the CLEC relinquishes all rights, title and ownership of transmission (excluding fiber entrance facility cable) and power cables to the Company.

(B) Permissible Equipment

The Company shall permit the collocation and use of any equipment necessary for interconnection or access to unbundled network elements in accordance with the following standards: (1) Equipment is necessary for interconnection if an inability to deploy that equipment would, as a practical, economic, or operational matter, preclude the CLEC from obtaining interconnection with the Company at a level equal in quality to that which the Company obtains within its own network or the Company provides to any of its affiliates, subsidiaries, or other parties; and (2) Equipment is necessary for access to an unbundled network element if an inability to deploy that equipment would, as a practical, economic, or operational matter, preclude the CLEC from obtaining nondiscriminatory access to that unbundled network element, including any of its features, functions, or capabilities.

Multi-functional equipment shall be deemed necessary for interconnection or access to an unbundled network element if and only if the primary purpose and function of the equipment, as the CLEC seeks to deploy it, meets either or both of the standards set forth in the preceding paragraph. For a piece of equipment to be utilized primarily to obtain equal quality interconnection or nondiscriminatory access to one or more unbundled network elements, there also must be a logical nexus between the additional functions the equipment would perform and the telecommunication services the CLEC seeks to provide to its customers by means of the interconnection or unbundled network element. The collocation of those functions of the equipment that, as stand-alone functions, do not meet either of the standards set forth in the preceding paragraph must not cause the equipment to significantly increase the burden on the Company's property.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.7 Equipment and Facilities (Continued)

(B) Permissible Equipment (Continued)

Whenever the Company objects to collocation of equipment by a requesting CLEC for purposes within the scope of Section 251(c)(6) of the Act, the Company shall prove to the state commission that the equipment is not necessary for interconnection or access to unbundled network elements under the standards set forth above.

The CLEC may place in its collocation space ancillary equipment such as cross connect frames and metal storage cabinets. However, metal storage cabinets must meet Company premises environmental standards.

(C) Specifications

The CLEC facilities shall not physically, electronically, or inductively interfere with or impair the service of the Company's or any other CLEC facilities, create hazards or cause physical harm to any individual or the public. All CLEC equipment used for Caged and Cageless Collocation must be tested to, and must meet: (1) the NEBS Level 1 family of safety requirements as defined in the Company's NEBS requirements, RNSA–NEB–95-0003, Revision 10 or higher; and (2) the specific risk/safety/hazard criteria specified in Addendum E of the Collocation Services Packet. Any CLEC equipment that does not conform to these requirements may not be installed on Company property.

(D) Cable

The CLEC is required to provide proper cabling, based on circuit type (VF, DS0, xDSL, DS1, DS3, etc.) to ensure adequate shielding. The Company cable standards (which are set forth in the Collocation Services Packet) are required to reduce the possibility of interference. The CLEC is responsible for providing fire retardant riser cable that meets Company standards. The Company is responsible for placing the CLEC's fire retardant riser cable from the cable vault to the collocation space. The Company is responsible for installing CLEC provided fiber optic cable in the cable space or conduit from the first manhole to the premises. This may be shared conduit with dedicated innerduct.

If the CLEC provides its own fiber optic facility, then the CLEC shall be responsible for bringing its fiber optic cable to the premises manhole. The CLEC must leave sufficient cable length for the Company to be able to fully extend such cable through to the CLEC's collocation space.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.7 Equipment and Facilities (Continued)

(E) Manhole/Splicing Restrictions

The Company reserves the right to prohibit all equipment and facilities, other than fiber optic cable, from its entrance manholes. The CLEC will not be permitted to splice fiber optic cable in Manhole #1 (first Company manhole outside of the wire center). Where the CLEC is providing underground fiber optic cable in Manhole #1, it must be of sufficient length as specified by the Company to be pulled through the premises conduit to the CLEC collocation arrangement. The Company is responsible for installing a cable splice, if necessary, where CLEC provided fiber optic cable meets Company standards within the premises cable vault or designated splicing chamber. The Company will provide space and racking for the placement of an approved secured fire retardant splice enclosure.

(F) Access Points and Restrictions

The interconnection point for caged and cageless collocation is the point where collocation cable facilities connect to Company termination equipment. The demarcation point for the CLEC is its terminal equipment or interconnect/cross connect panel within its cage, bay/frame or cabinet. The CLEC must tag all entrance facilities to indicate ownership. The CLEC will not be allowed access to Company DSX line-ups, MDF or any other Company facility termination points. The DSX, MDF, and fiber distribution panel are to be considered Company demarcation points only. Only Company employees, agents or contractors will be allowed access to the MDF or DSX to terminate facilities, test connectivity, run jumpers and/or hot patch in-service circuits.

(G) Staging Area

For caged and cageless collocation arrangements, the CLEC shall have the right to use the designated staging area, a portion of the premises and loading areas, if available, on a temporary basis during its equipment installation work in the collocation space. The CLEC is responsible for protecting the Company's equipment and premises walls and flooring within the staging area and along the staging route. The CLEC will meet all Company fire, safety, security and environmental requirements. The temporary staging area will be vacated and delivered to the Company in an acceptable condition upon completion of the installation work. The CLEC may also utilize a staging trailer, which can be located on the exterior premises of the Company's premises. The Company may assess the CLEC a market value lease rate for the area occupied by the trailer.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.7 Equipment and Facilities (Continued)

(H) Testing

Upon installation of the CLEC equipment, with prior notice, the Company will schedule time to work with the CLEC during the turn-up phase of the equipment to ensure proper functionality between CLEC equipment and the connections to Company equipment. The time period for this to occur will correspond to the Company's maintenance window installation requirements. The CLEC is solely responsible to provide its own monitor and test points, if required, for connection directly to its terminal equipment.

(I) Interconnection Between Collocated Spaces

(1) Dedicated Transit Service (DTS), which allows for interconnection between CLECs, provides a dedicated electrical or optical path between collocation arrangements (caged, cageless, and virtual) of the same or of two different CLECs within the same Company premises, using Company provided distribution facilities. DTS is available for DS0, DS1, DS3, and dark fiber cross connects. In addition, the Company will also provide other technically feasible cross-connection arrangements, including lit fiber, on an Individual Case Basis (ICB) as requested by a CLEC. The Company will offer DTS to requesting CLECs as long as such access is technically feasible.

DTS is only available when both collocation arrangements (either caged, cageless, and/or virtual) being interconnected are within the same Company premises, provided that the collocated equipment is used for interconnection with the Company and/or for access to the Company's unbundled network elements. The Company shall provide such DTS connections from the CLEC's collocation arrangement to another collocation arrangement of the same CLEC within the same Telephone Company premises, or to a collocation arrangement of another CLEC in the same Telephone Company premises. DTS is provided at the same transmission level from CLEC to CLEC.

The DTS arrangement requires the requesting CLEC to provide cable assignment information for itself as well as for the other CLEC. The Company will not make cable assignments for DTS. The requesting CLEC is responsible for all DTS ordering, bill payment, disconnect orders and maintenance transactions and is the customer of record. The requesting CLEC must also provide a letter of agency from the CLEC it is connecting to that authorizes the DTS connection and facility assignment. DTS is provided on a negotiated interval with the requesting CLEC. DTS service order and service connection rates are specified in Section 16.16.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.7 Equipment and Facilities (Continued)

(J) Optical Facility Terminations

CLECs who request access to unbundled dark fiber and unbundled optical interoffice facilities may apply for a fiber optic patchcord connection(s) between the Company's fiber distribution panel (FDP) and the CLEC's collocated transmission equipment and facilities. The fiber optic patchcord cross connect may only be in use for access to unbundled dark fiber, unbundled optical interoffice facilities, and Dedicated Transit Service.

16.4.8 Access to Collocation Space

The Company will permit CLEC employees, agents, and contractors approved by the Company to have direct access to CLEC caged or cageless collocated equipment twenty-four (24) hours a day, seven (7) days a week and reasonable access to the Company's restroom facilities. CLEC employees, agents, or contractors must comply with the policies and practices of the Company pertaining to fire, safety, and security as described in the Company's Security Procedures and Requirements Guidelines, which are attached to the Collocation Services Packet. The Company reserves the right, with 24 hours prior notice to the CLEC, to access the CLEC's collocated partitioned space to perform periodic inspections to ensure compliance with Company installation, safety and security practices. Where the CLEC shares a common entrance to the premises with the Company, the reasonable use of shared building facilities, e.g., elevators, unrestricted corridors, etc., will be permitted. Frontier Communications of the Southwest, Inc., reserves the right to permanently remove and/or deny access from Company premises any CLEC employee, agent, or contractor who violates the Company's policies, work rules, or business conduct standards, or otherwise poses a security risk to the Company.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.9 Network Outage, Damage and Reporting

The CLEC shall be responsible for:

- Any damage or network outage occurring as a result of CLEC owned or designated termination equipment in Company premises;
- Providing trouble report status when requested;
- Providing a contact number that is readily accessible 24 hours a day, 7 days a week;
- Notifying the Company of significant outages which could impact or degrade the Company's switches and services and provide estimated clearing time for restoral; and
- Testing its equipment to identify and clear a trouble report when the trouble has been sectionalized (isolated) to a CLEC service.

The Company will make every effort to contact the CLEC in the event CLEC equipment disrupts the network. If the Company is unable to make contact with the CLEC, the Company shall temporarily disconnect the CLEC's service, as provided in Section 16.4.11 following

16.4.10 Security Requirements

(A) Background Tests; Training

All employees, agents and contractors of the CLEC must meet certain minimum requirements as set forth in the Company's Collocation Service Packet.

When the CLEC submits the ASR for caged or cageless collocation, or as soon as reasonably practicable thereafter, the CLEC must submit to the Company's Security Department, for prior approval, the background investigation certification form included in the Collocation Service Packet for all employees, agents and contractors that will require access to Company premises. The CLEC must agree that its employees/vendors that were given access to Company premises shall at all times adhere to the rules of conduct established by the Company. The Company reserves the right to make changes to such procedures and rules to preserve the integrity and operation of Company network or facilities or to comply with applicable laws and regulations. The Company will provide the CLEC with written notice of such changes. Where applicable, the Company will provide information to the CLEC on the specific type of security training required so its employees can complete such training.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.10 Security Requirements (Continued)

(B) Security Standards

The Company will be solely responsible for determining the appropriate level of security in each premises. The Company reserves the right to deny access to Company buildings by any CLEC employee, agent or contractor who cannot meet the Company's established security standards. Employees, agents or contractors of the CLEC are required to meet the same security requirements and adhere to the same work rules that Company employees and contractors are required to follow.

The Company also reserves the right to deny access to Company buildings by CLEC employees, agents and contractors for falsification of records, violation of fire, safety or security practices and policies or other just cause.

CLEC employees, agents or contractors who meet the Company's established security standards will be provided access to the CLEC's collocation equipment twenty-four (24) hours a day, seven (7) days a week and reasonable access to the Company's restroom facilities. If CLEC employees, agents or contractors request and are granted access to other areas of the Company's premises, a Company employee, agent or contractor may accompany and observe the CLEC employee(s), agent(s) or contractor(s) at no cost to the CLEC.

The Company may use reasonable security measures to protect its equipment, including, for example, enclosing its equipment in its own cage or other separation, utilizing monitored card reader systems, digital security cameras, badges with computerized tracking systems, identification swipe cards, keyed access and/or logs, as deemed appropriate by the Company.

The Company may require CLEC employees and contractors to use a central or separate entrance to the Company's premises, provided, however, that where the Company requires that CLEC employees or contractors access collocated equipment only through a separate entrance, employees and contractors of the Company's affiliates and subsidiaries will be subject to the same restriction.

The Company may construct or require the construction of a separate entrance to access caged and cageless collocation space, provided that each of the following conditions is met: (i) Construction of a separate entrance is technically feasible; (ii) Either legitimate security concerns, or operational constraints unrelated to the incumbent's or any of its affiliates' or subsidiaries competitive concerns, warrant such separation; (iii) Construction of a separate entrance will not artificially delay collocation provisioning; and (iv) Construction of a separate entrance will not materially increase the CLEC's collocation costs.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.10 Security Requirements (Continued)

(C) Access Cards/Identification (Continued)

Access cards or keys will be provided to no more than a reasonable number of CLEC appointed individuals for each Company premises. All CLEC employees, agents and contractors requesting access to the premises are required to have a photo identification card (ID), which identifies the person by name and the name of the CLEC. The ID must be worn on the individual's exterior clothing while on Company premises. The Company will provide the CLEC with instructions and necessary access cards or keys to obtain access to Company buildings.

The CLEC is required to immediately notify the Company by the most expeditious means, when any CLEC employee, agent or contractor with access privileges to Company buildings is no longer in its employ, or when keys, access cards or other means of obtaining access to Company buildings are lost, stolen or not returned by an employee, agent or contractor no longer in its employ. The CLEC is responsible for the immediate retrieval and return to the Company of all keys, access cards or other means of obtaining access to Company buildings upon termination of employment of an employee and/or termination of service. The CLEC shall be responsible for the replacement cost of keys, access cards or other means of obtaining access when lost, stolen or upon failure of it or its employee, agent or contractor to return them to the Company.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.4 Installation and Operation (Continued)

16.4.11 Emergency Access

The CLEC is responsible for providing a contact number that is readily accessible 24 hours a day, 7 days a week. The CLEC will provide access to its collocation space at all times to allow the Company to react to emergencies, to maintain the building operating systems (where applicable and necessary) and to ensure compliance with OSHA/Company regulations and standards related to fire, safety, health and environmental safeguards. The Company will attempt to notify the CLEC in advance of any such emergency access. If advance notification is not possible the Company will provide notification of any such entry to the CLEC as soon as possible following the entry, indicating the reasons for the entry and any actions taken which might impact CLEC facilities or equipment and its ability to provide service. The Company will restrict access to CLEC collocation space only to persons necessary to handle such an emergency.

The emergency provisioning and restoration of interconnection service shall be in accordance with Part 64, Subpart D, Paragraph 64.401, of the FCC's Rules and Regulations, which specifies the priority for such activities. The Company reserves the right, without prior notice, to access CLEC collocation space in an emergency, such as fire or other unsafe conditions, or for purposes of averting any threat of harm imposed by the CLEC or CLEC equipment upon the operation of Company equipment, facilities and/or employees located outside the CLEC's collocation space. The Company will notify the CLEC as soon as possible when such an event has occurred.

In case of a Company work stoppage, CLEC employees, contractors or agents will comply with the emergency operation procedures established by the Company. Such emergency procedures should not directly affect CLEC access to its premises or ability to provide service. The CLEC will notify the Company point of contact of any work stoppages by CLEC employees.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.5 Space Requirements

16.5.1 Space Availability

If the Company is unable to accommodate caged and cageless collocation requests at a premises due to space limitations or other technical reasons, the Company will post a list of all such sites on its Website and will update the list within ten (10) calendar days of the date at which a premises runs out of caged and cageless collocation space. This information will be listed at the following public Internet URL:

http://carrier.frontiercorp.com/crtf/tariffs/

Where the Company has denied a physical collocation request at a premises due to space limitations or other technical reasons, the Company shall:

(A) Submit to the state commission, subject to any protective order as the state commission may deem necessary, detailed floor plans or diagrams of the premises which show what space, if any of its affiliates has reserved for future use; and describe in detail, the specific future uses for which the space has been reserved and the length of time for each reservation.

(B) Allow the CLEC to tour the entire premises of the premises, without charge, within ten (10) calendar days of the tour request.

16.5.2 Minimum/Maximum/Additional Space

The minimum amount of floor space available to each CLEC at the time of the initial application will be twenty-five (25) square feet of caged collocation space or one (1) single bay in the case of cageless collocation. The maximum amount of space available in a specific premise to each CLEC will be limited to the amount of existing suitable space which is technically feasible to support the collocation arrangement requested. Existing suitable space is defined as available space in a premises, which does not require the addition of AC/DC power, heat and air conditioning, battery and/or generator back-up power and other requirements necessary for provisioning collocation services. The Company will not deny a CLEC's collocation request if vacant, unconditioned space is the only space available for collocation. The Company will modify the vacant, unconditioned space to suitable space in order to support the collocation arrangement requested. Additional space requested for an existing caged, cageless and/or adjacent collocation arrangement will be provided on a per request basis, where feasible, and where space is being efficiently used. Additional space requested for an existing caged, cageless and/or adjacent collocation arrangement will be provided on a per request basis, where feasible, and where space is being efficiently used.

Additional space can be requested by a CLEC by completing and submitting a new application form and the applicable non-refundable engineering fee set forth in Section 16.16 following. The Company will not be required to lease or construct additional space when available collocation space has been exhausted.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.5 Space Requirements (Continued)

16.5.3 Use of Space

The Company and CLEC will work cooperatively to determine proper space requirements, and efficient use of space. In addition to other applicable requirements set forth in this tariff, the CLEC shall install all its equipment within its designated area in contiguous line-ups in order to optimize the utilization of space within Company premises. The CLEC shall use the collocation space solely for the purposes of installing, maintaining and operating its equipment to interconnect for the exchange of traffic with the Company and/or for purposes of accessing unbundled network elements. The CLEC shall not construct improvements or make alterations or repairs to the collocation space without the prior written approval of the Company. The collocation space may not be used for administrative purposes and may not be used as CLEC employee(s) work location, office or retail space, or storage. The collocation space shall not be used as the CLEC's mailing or shipping address.

16.5.4 Reservation of Space

The Company reserves the right to manage its own premises conduit requirements and to reserve vacant space for planned facilities. The Company will retain and reserve a limited amount of vacant floor space within its premises for its own specific future uses on terms no more favorable than applicable to other CLECs seeking to reserve collocation space for their future use. If the remaining vacant floor space within a premises is reserved for the Company's and its affiliates' own specific future use, the premises will be exempt from future caged and cageless collocation requests in accordance with the guidelines and procedures in Section 16.5.1. The CLEC shall not be permitted to reserve premises cable space or conduit system. If new conduit is required, the Company will negotiate with the CLEC to determine an alternative arrangement for the specific location. The CLEC will be allowed to reserve collocation space for its caged/cageless arrangements based on its documented forecast provided to the Company and subject to space availability. Such forecast must demonstrate a legitimate need to reserve the space for use on terms no more favorable than applicable to the Company seeking to reserve vacant space for its own specific use. CLEC cageless collocation bays may not be used solely for the purpose of storing CLEC equipment.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.5 Space Requirements (Continued)

16.5.5 Collocation Space Report

Upon request by the CLEC and upon its signing a collocation nondisclosure agreement, the Company will make available a Collocation Space Report with the following information for the premises requested:

- Detailed description and amount of caged and cageless collocation space available;
- Number of telecommunications carriers with existing collocation arrangements;
- Modifications of the use of space since the last Collocation Space Report requested; and,
- Measures being taken, if any, to make additional Collocation spaces available.

The Collocation Space Report is not required prior to the submission of a collocation application for a specific premises in order to determine collocation space availability for the premises. The Collocation Space Report will be provided to a CLEC within ten (10) calendar days of the request, provided the request is submitted during the ordinary course of business. A Collocation Space Report fee will be assessed per request and per premises as set forth in Section 16.16.50.

16.5.6 Reclamation

When a collocation arrangement has been provisioned by the Company, the CLEC must have started installing equipment within a reasonable period of time, not to exceed six (6) months from the date the collocation arrangement is accepted. If the CLEC does not utilize its collocation space within the established time period and has not met the space reservation requirements of Section 16.5.4 preceding, the Company may reclaim the unused collocation space to accommodate another CLEC request or the Company's future space requirements.

The Company shall have the right, for good cause shown, and upon six (6) months' notice, to reclaim any collocation space, cable space or conduit space in order to fulfill its obligation under public service law and its tariffs to provide telecommunication services to its end users. In such cases, the Company will reimburse the CLEC for reasonable direct costs and expenses in connection with such reclamation. The Company will make every reasonable effort to find other alternatives before attempting to reclaim any such space.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.6 Liability and Indemnification

16.6.1 No liability shall attach to the Company for damages arising from errors, mistakes, omissions, interruptions, or delays of the Company, its agents, servants or employees, in the course of establishing, furnishing, rearranging, moving, terminating, or changing the service or facilities (including the obtaining or furnishing of information in respect thereof or with respect to the subscribers or users of the service or facilities) in the absence of gross negligence or willful misconduct.

Subject to the preceding and to the provisions following, with respect to any claim or suit, by a CLEC or by any others, for damages associated with the installation, provision, termination, maintenance, repair or restoration of service, the Company's liability, if any, shall not exceed an amount equal to the proportionate charge for the service by the Company for the service for the period during which service was affected.

16.6.2 The Company shall not be liable for any act or omission of any other party furnishing a portion of service used in connection with the services herein.

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

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

(A) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the material transmitted over the Company's facilities;

(B) Claims for patent infringement arising from the CLEC's or its end user's acts combining or using the service furnished by the Company in connection with facilities or equipment furnished by the end user or the CLEC;

(C) All other claims arising out of any act or omission of the end user and/or CLEC in the course of using services provided pursuant to this tariff;

(D) All claims, including but not limited to injuries to persons or property from voltages or currents, arising out of any act or omission of the CLEC or its end user in connection with facilities provided by the Company, the CLEC, or the end user; or

(E) The Company shall not be liable to the CLEC or its customers in connection with the provision or use of the services provided under this tariff for indirect, incidental, consequential, reliance or special damages, including (without limitation) damages for lost profits, regardless of the form of action, whether in contract, indemnity, warranty, strict liability, or tort, including (without limitation) negligence of any kind, even if the Company has been advised of the possibility of such loss or damage.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.6 Liability and Indemnification (Continued)

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

16.6.6 No license under patents (other than the limited license to use) is granted by the Company or shall be implied or arise by estoppel, with respect to any service offered under this tariff.

16.6.7 The Company's failure to provide or maintain services under this tariff shall be excused by labor difficulties, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.

16.6.8 The Company shall not be liable for any act or omission of any other entity furnishing to the CLEC facilities, equipment, or services used in conjunction with the services provided under this tariff. Nor shall the Company be liable for any damages or losses due to unauthorized use of the services or the failure or negligence of the CLEC or CLEC end user, or due to the failure of equipment, facilities, or services provided by the CLEC or its end user.

16.6.9 Neither party shall be liable to the other or to any third party for any physical damage to each other's facilities or equipment within the central office, unless caused by the gross negligence or willful misconduct of the party's agents or employees.

16.6.10 The CLEC shall indemnify, defend and save harmless the Company from and against any and all losses, claims, demands, causes of action and costs, including attorney's fees, whether suffered, made, instituted or asserted by the CLEC or by any other party or person for damages to property and injury or death to persons, including payments made under any worker's compensation law or under any plan for employees; disability and death benefits, which may arise out of or be caused by the installation, maintenance, repair, replacement, presence, use or removal of the CLEC's equipment or facilities or by their proximity to the equipment or facilities or all parties occupying space within or on the exterior of the Company's central office(s), or by any act or omission of the Company, its employees, agents, former or striking employees, or contractors, in connection therewith, unless caused by gross negligence or willful misconduct on the part of the Company. These provisions shall survive the termination, cancellation, modification or rescission of the tariff for at least 18 months from the date of the termination.

The Company shall indemnify, defend and save harmless the CLEC from and against any and all losses, claims, demands, causes of action and costs, including attorneys' fees, whether suffered, made, instituted or asserted by the Company or by any other party or person for damages to property and injury or death to persons, including payments made under any worker's compensation law or under any plan for employees' disability and death benefits, which may arise out of or be caused by the Company's provision of service within or on the exterior of the central office of by an act or omission of the CLEC, its employees, agents, former or striking employees, or contractors, in connection therewith, unless caused by gross negligence or willful misconduct on the part of the CLEC.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.6 Liability and Indemnification (Continued)

16.6.10 (Continued)

A Party's obligation to indemnify the other Party as provided herein shall be conditioned upon the following:

(A) The indemnified Party shall promptly notify the indemnifying Party of any action taken against the indemnified Party relating to the indemnification. However, the failure to give such notice shall release the Indemnifying Party from its obligations under this Section only to the extent the failure to give such notice has prejudiced the indemnifying Party.

(B) The indemnifying Party shall have sole authority to defend any such action, including the selection of legal counsel, and the indemnified Party may engage separate legal counsel only at the indemnified Party's sole cost and expense.

(C) In no event shall the indemnifying Party settle or consent to any judgment in an action without the prior written consent of the indemnified Party, which consent shall not be unreasonably withheld. However, in the event the settlement or judgment requires a contribution from or affects the rights of the indemnified Party, the indemnified Party shall have the right to refuse such settlement or judgment and, at its own cost and expense, take over the defense against such Loss, provided that in such event the indemnifying Party shall not be responsible for, nor shall it be obligated to indemnify the indemnified Party against the Loss for any amount in excess of such refused settlement or judgment.

(D) The indemnified Party shall, in all cases, assert any and all provisions in its Tariffs that limit liability to third parties as a bar to any recovery by the third party claimant in excess of such limitation of liability. The indemnified Party shall offer the indemnifying Party all reasonable cooperation and assistance in the defense of any such action.

16.6.11 The CLEC shall indemnify, defend and save harmless the Company from and against any and all losses, claims, demands causes of action, damages and costs, including but not limited to attorney's fees and damages costs, and expense of relocating conduit systems resulting from loss of right-of-way or property owner consents, which may arise out of or be caused by the presence in, or the occupancy of the central office by the CLEC, and/or acts by the CLEC, its employees, agents or contractors.

16.6.12 The CLEC shall indemnify, defend, and hold harmless the Company, its directors, officers and employees, servants, agents, affiliates and parent, from and against any and all claims, cost, expense or liability of any kind, including but not limited to reasonable attorney's fees, arising out of or relating to CLEC installation and operation of its facilities or equipment within the multiplexing node, roof space and transmitter space.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.6 Liability and Indemnification (Continued)

16.6.13 The CLEC represents, warrants and covenants that it shall comply with all applicable federal, state or local law, ordinance, rule or regulations, including but not limited to, any applicable environmental, fire, OSHA or zoning laws. The CLEC shall indemnify, defend, and hold harmless the Company, its directors, officers and employees, servants agents, affiliates and parent, from and against any all claims, cost, expense or liability of any kind including but not limited to fines or penalties arising out of any breach of the foregoing by the CLEC, its directors, officers, employees, servants, agents, affiliates and parent. The provisions shall survive the termination, cancellation, modification or rescission of the tariff for at least 18 months from the date of the termination.

16.6.14 The Company represents, warrants and covenants that it shall comply with all applicable federal, state or local law, ordinance, rule or regulations, in connection with its provision of service within or on the exterior of the central office, including but not limited to, any applicable environmental, fire, OSHA or zoning laws. The Company shall indemnify, defend, and hold harmless the CLEC, its directors, officers, employees, agents or contractors, from and against any and all claims, cost, expense or liability of any kind including but not limited to fines or penalties arising out of any breach of the foregoing by the Company, its directors, officers and employees, servants, agents, affiliates and parent.

16.6.15 The Company and the CLEC shall be responsible for all persons under their control or aegis working in compliance herewith, satisfactorily, and in harmony with all others working in or on the exterior of the central office and, as appropriate, cable space.

16.7 Insurance

16.7.1 The CLEC shall, at its sole cost and expense, obtain, maintain, pay for and keep in force the following minimum insurance, underwritten by an insurance company(s) having a Best's insurance rating of at least A-, financial size category VII.

(A) Commercial general liability coverage on an occurrence basis in an amount of $1,000,000 combined single limit for bodily injury and property damage with a policy aggregate per location of $2,000,000. This coverage shall include contractual liability.

(B) Umbrella/Excess Liability coverage in an amount of $10,000,000 excess of coverage specified in (A) above.

(C) All Risk Property coverage on a full replacement cost basis insuring all of the CLEC's real and personal property located on or within Company premises. The CLEC may also elect to purchase business interruption and contingent business interruption insurance, knowing that the Company has no liability for loss of profit or revenues should an interruption of service occur.

(D) Statutory Workers Compensation coverage.

(E) Employers Liability coverage in an amount of $500,000 each accident.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.7 Insurance (Continued)

16.7.1 (Continued)

(F) Commercial Automobile Liability coverage insuring all owned, hired and non-owned automobiles.

Notwithstanding anything herein to the contrary. The coverage requirements described in (C) through (F) above shall only be required if the CLEC orders collocation services pursuant to this Tariff. The minimum amounts of insurance required in this section may be satisfied by the CLEC purchasing primary coverage in the amounts specified or by the CLEC buying a separate umbrella and/or excess policy together with lower limit primary underlying coverage. The structure of the coverage is at the CLEC's option, so long as the total amount of insurance meets the Company's requirements.

16.7.2 Deductibles

Any deductibles, self-insured retentions (SIR), lost limits, retentions, etc. (collectively, "retentions") must be disclosed on a certificate of insurance provided to the Company, and the Company reserves the right to reject any such retentions in its reasonable discretion. All retentions shall be the responsibility of the CLEC.

16.7.3 Additional Insureds

The Company and its affiliates (which includes any corporation controlled by, controlling or in common control with the Company parent corporation), its respective directors, officers and employees shall be named as additional insureds under all General Liability and Umbrella/Excess Liability Policies obtained by the CLEC. Said endorsement shall provide that such additional insurance is primary insurance and shall not contribute with any insurance or self-insurance that the Company has secured to protect itself. All of the insurance afforded by the CLEC shall be primary in all respects, including the CLEC's Umbrella/Excess Liability insurance. The Company's insurance coverage shall be excess over any indemnification and insurance afforded by the CLEC and required hereby.

16.7.4 Waiver of Subrogation Rights

The CLEC waives and will require all of its insurers to waive all rights of subrogation against the Company (including the Company parent Corporation and any other affiliated and/or managed entity), its directors, officers and employees, agents or assigns, whether in contract, tort (including negligence and strict liability) or otherwise.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.7 Insurance (Continued)

16.7.5 Evidence of Insurance

All insurance must be in effect on or before the Company authorizes access by CLEC employees or placement of CLEC equipment or facilities within the Company's premises and such insurance shall remain in force as long as the CLEC's facilities remain within any space governed by this Tariff. If the CLEC fails to maintain the coverage, the Company may pay the premiums and seek reimbursement from the CLEC. Failure to make a timely reimbursement will result in disconnection of service. The CLEC agrees to submit to the Company a certificate of insurance ACORD Form 25-S (1/95), or latest edition, such certificate to be signed by a duly authorized officer or agent of the Insurer, certifying that the minimum insurance coverage's and conditions set forth herein are in effect, and that the Company will receive at least thirty (30) days notice of policy cancellation, expiration or non-renewal.

At least thirty (30) days prior to the expiration of the policy, the Company must be furnished satisfactory evidence that such policy has been or will be renewed or replaced by another policy. At the Company's request, the CLEC shall provide copies of the insurance provisions or endorsements as evidence that the required insurance has been procured, and that the Company has been named as an additional insured, prior to commencement of any service. In no event shall permitting CLEC access be construed as a waiver of the right of the Company to assert a claim against the CLEC for breach of the obligations established in this section.

16.7.6 Compliance Requirements

The CLEC shall require its contractors to comply with each of the provisions of this insurance section. This includes, but is not limited to, maintaining the minimum insurance coverages and limits, naming the Company (including the Company's parent corporation and any other affiliated and/or managed entity) as an additional insured under all liability insurance policies, and waiving all rights of subrogation against the Company (including the Company's parent Corporation and any other affiliated and/or managed entity), its directors, officers and employees, agents or assigns, whether in contract, tort (including negligence and strict liability) or otherwise. Prior to commencement of any work, the CLEC shall require and maintain certificates of insurance from each contractor evidencing the required coverages. At the Company's request, the CLEC shall supply to the Company copies of such certificates of insurance or require the contractors to provide insurance provisions or endorsements as evidence that the required insurance has been procured. The CLEC must also conform to the recommendation(s) made by the Company's fire insurance company, which the Company has already agreed to or shall hereafter agree to.

16.7.7 Self Insurance

If the CLEC net worth exceeds $100,000,000, the CLEC may elect to self insure and thereby assume the coverage, protections and payments that otherwise would have been provided or made to or on behalf of the Company under the insurance provisions set forth in this section. If the CLEC self-insures, the CLEC shall furnish to the Company, and keep current, evidence of such net worth that is attested to by one of the corporate officers. The CLEC is subject to the same liability and indemnification provisions set forth herein.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.8 Confidentiality

In addition to its other confidentiality obligations hereunder, the CLEC shall not use or disclose and shall hold in confidence all information of a competitive nature provided to it by the Company in connection with collocation, or known to a CLEC as a result of its access to Company premises, or as a result of the interconnection of its equipment to Company facilities. Similarly, the Company shall not use or disclose and shall hold in confidence all information of a competitive nature provided to it by a CLEC in connection with collocation, or known to the Company as a result of the interconnection of the CLEC's equipment to Company facilities. Such information is to be considered proprietary and shared within the Company and the CLEC on a need to know basis only. Neither the Company nor the CLEC shall be obligated to hold in confidence information that:

- Was already known to the CLEC free of any obligation to keep such information confidential;
- Was or becomes publicly available by other than unauthorized disclosure; or
- Was rightfully obtained from a third party not obligated to hold such information in confidence.

16.9 Casualty

If the collocation equipment location in the Company premises is rendered wholly unusable through no fault of the CLEC, or if the building shall be so damaged that the Company shall decide to demolish it, rebuild it, or abandon it for premises purposes (whether or not the demised premises are damaged in whole or in part), then, in any of such events, the Company may elect to terminate the collocation arrangements in the damaged building by providing written notification to CLECs as soon as practicable but no later than one hundred eighty (180) calendar days after such casualty, specifying a date for the termination of the Collocation arrangements. The termination date shall not be more than sixty (60) calendar days after the giving of such notice. Upon the date specified in such notice, the term of the collocation arrangement shall expire as fully and completely as if such date were the date set forth for the termination of the arrangement. CLECs shall immediately quit, surrender and vacate the premises without prejudice. Unless the Company serves a termination notice as provided for herein, it shall make the repairs and restorations with all reasonable expedition, subject to delays due to adjustment of insurance claims, labor troubles and causes beyond the Company's reasonable control. After any such casualty, CLECs shall cooperate with the Company's restoration by removing from the collocation space, as promptly as reasonably possible, all of their salvageable inventory and movable equipment, furniture and other property. The Company will work cooperatively with the CLECs to minimize any disruption to service, resulting from any damage. The Company shall provide written notification to CLECs detailing its plans to rebuild and will restore service as soon as practicable. In the event of termination, the Company's rights and remedies against CLECs in effect prior to such termination, and any fees owing, shall be paid up to such date. Any advance payments of fees made by CLECs for periods after such date, shall be returned.

16.10 Termination of Service

16.10.1 Grounds for Termination

Failure by the CLEC to comply with the terms and conditions of this tariff may result in termination of service.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.10 Termination of Service (Continued)

16.10.1 Grounds for Termination (Continued)

Collocation arrangements will automatically terminate if the premises in the, which the collocation space is located is closed, decommissioned or sold and no longer houses the Company's network facilities. At least one hundred eighty (180) days written notice will be given to the CLEC of events which may lead to the automatic termination of any such arrangement pursuant to this tariff, except when extraordinary circumstances require a shorten interval. In such cases, the Company will provide notice to the CLEC as soon as practical. The Company will work cooperatively with the CLEC to minimize any potential for service interruption resulting from such actions.

In addition to the other grounds for termination of collocation services set forth herein, the Company also reserves the right to terminate such services upon thirty (30) calendar days notice in the event the CLEC is not in conformance with Company standards and requirements, and/or imposes continued disruption and threat of harm to Company employees and/or network, or the Company's ability to provide service to other CLECs.

16.10.2 Effects of Termination

A CLEC must provide a minimum of thirty (30) calendar days written notice if the CLEC elects to terminate an existing collocation arrangement after acceptance of the collocation space. All monthly recurring charges will continue for thirty (30) calendar days from the date of the termination notice, or until the collocation space is vacated, whichever is longer.

If a CLEC has paid a non-recurring charge(s) for an asset in a collocation arrangement and is succeeded by another CLEC who uses the same asset, the initial CLEC will be credited the remaining undepreciated amount of the asset upon occupancy by the subsequent CLEC. The subsequent CLEC will be responsible for paying the remaining undepreciated amount of the cost. If the Company uses an asset for which a CLEC paid a non-recurring charge, the Company will make a pro rata refund to the CLEC. For purposes of calculating prorated refunds to the CLEC, the Company will use the economic life of the asset.

Upon the termination of collocation service, the CLEC shall disconnect and remove its equipment from the designated collocation space. Due to physical and technical constraints, removal of CLEC entrance facility cable will be at the Company's option. The Company reserves the right to remove CLEC equipment if the CLEC fails to remove and dispose of the equipment within thirty (30) calendar days of discontinuance. The CLEC will be charged the appropriate additional labor charge in Section 16.16 following for removal of such equipment. Upon removal by the CLEC of all its equipment from the collocation space, it will reimburse the Company for the cost to restore the collocation space to its original condition at time of occupancy. The cost will be applied based on the additional labor charges rate set forth in Section 16.16 following.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.10 Termination of Service (Continued)

16.10.3 Cancellations and Acceptance Delays

If a CLEC elects to cancel a request for collocation when construction is in progress and prior to acceptance of the collocation space, the CLEC must do so in writing. Engineering/Major Augment fees submitted with the application and all other non-recurring charges for the Company's costs incurred in providing the collocation arrangement will not be refunded. No monthly recurring charges will be billed to the CLEC.

If a CLEC elects to not accept a completed collocation arrangement, the CLEC must provide written notice within 30 calendar days of the scheduled completion date to avoid incurring any monthly recurring charges. Engineering/Major Augment fees submitted with the application and all other non-recurring charges for the Company's costs incurred in providing the collocation arrangement will not be refunded.

16.11 Miscellaneous

The Company retains ownership of premises floor space, adjacent land and equipment used to provide all forms of collocation. The Company reserves for itself and its successors and assignees, the right to utilize the premises space in such a manner as will best enable it to fulfill its service requirements. The CLEC does not receive, as a result of entering into a collocation arrangement, any right, title or interest in the Company wire center facility, the multiplexing node, multiplexing node enclosure, cable, cable space, cable racking, vault space or conduit space other than as expressly provided herein. To the extent that a CLEC requires use of a Company local exchange line, it must order a business local exchange access line (B1). A CLEC may not use Company official lines.

16.12 Virtual Collocation

16.12.1 Description

(A) Under virtual collocation, the Company installs and maintains CLEC provided equipment, which is dedicated to the exclusive use of the CLEC in a collocation arrangement. A CLEC provides fiber-optic facilities through Company entrance manholes for connection to the CLEC virtually collocated transmission equipment that provides interconnection to Company facilities located in the premises.

The physical point of interface for connection to the virtual arrangement is referred to as manhole zero. From this manhole into the premises, the Company shall assume ownership of and maintain the fiber. From this manhole toward the CLEC's location, the fiber optic cable remains the CLEC's responsibility, with the CLEC performing all servicing and maintaining full ownership. If the CLEC is purchasing Company provided unbundled interoffice facilities as transport, the CLEC entrance fiber is not required. All elements/services shall be connected to the output cables of the virtual collocation arrangement using Company designated cable assignments, not channel assignments.

(B) Virtual collocation is offered on a first come, first served basis and is provided subject to the availability of space and facilities in each premises where virtual collocation is requested.

(C) If the CLEC requests virtual collocation of equipment other than the standard virtual arrangement, the CLEC and Company will mutually agree upon the type of equipment to be virtually collocated.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.12 Virtual Collocation (Continued)

16.12.2 Implementation Intervals and Planning

(A) The Company and the CLEC shall work cooperatively to jointly plan the implementation milestones. The Company and the CLEC shall work cooperatively in meeting those milestones and deliverables as determined during the joint planning process. A preliminary schedule will be developed outlining major milestones including anticipated delivery dates for the CLEC-provided transmission equipment and for training.

(B) The Company will notify the CLEC of issues or unanticipated delays, as they become known. The Company and the CLEC shall conduct additional joint planning meetings, as reasonably required, to ensure all known issues are discussed and to address any that may impact the implementation process. Planning meetings shall include establishment of schedule, identification of tests to be performed, spare plug-in/card requirements, test equipment, and determination of the final implementation schedule.

(C) The implementation interval is seventy-six (76) business days for all standard arrangement requests which were properly forecast six months prior to the application dates subject to the tariff provisions governing forecasting and capacity. The CLEC shall deliver the virtual collocation equipment to the Company premises by business day 40. The Company and the CLEC shall work cooperatively to schedule each site on a priority-based order. The Company and the CLEC shall mutually agree upon intervals for non-standard arrangements.

16.12.3 Transmission Failure

In the event of a transmission failure, the obligation to determine fault location, regardless of whether the fiber span is equipped with optical regeneration equipment, lies with the transmitting end. It is the responsibility of the receiving end to report incoming signal loss to the transmitting end.

16.12.4 Accommodations

(A) Upon receipt of a completed application and associated Virtual Engineering fee, the Company will conduct an application review, engineering review and site survey at the requested premises. The Company will notify the CLEC within eight (8) business days of the results of this review and site survey.

(B) The dedicated terminal equipment inside the Company's premises shall be provided by the CLEC and leased to the Company for the sum of one dollar after successful installation and equipment testing by the Company. The term of the operating lease will run for the duration of the virtual collocation arrangement, at which time the CLEC will remove the equipment. The CLEC will retain ownership of this equipment inside the premises. The Company will operate and maintain exclusive control over this equipment inside the premises.

(C) Where the Company uses approved contractors for installation, maintenance or repair of Virtual collocation arrangements, the CLEC may hire the same approved contractors directly for installation; maintenance or repair of CLEC designated equipment.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.12 Virtual Collocation (Continued)

16.12.4 Accommodations (Continued)

(D) Where the Company does not use contractors, CLEC designated equipment and CLEC provided facilities used in the provision of Virtual collocation will be installed, maintained and repaired by the Company. The Company will maintain and repair the CLEC designated equipment under the same timeframe and standards as its own equipment.

(E) CLEC personnel are not allowed on the Company premises to maintain and repair Virtual collocation equipment.

(F) The Company shall monitor local premises and environmental alarms to support the equipment. The Company will notify the CLEC if a local office alarm detects an equipment affecting condition.

(G) The Company will be responsible to pull the fiber into and through the cable entrance facility (i.e., vault) to the virtual collocation arrangement. All installations into the cable entrance facility are performed by Company personnel or its agents.

(H) No virtual collocation arrangement will be placed in service by the Company until necessary training has been completed (refer to Section 16.12.11).

16.12.5 Plug-ins and Spare Cards

(A) When a plug-in/card is determined by the Company to be defective, the Company will label the plug-in as defective and place it in the CLEC-dedicated plug-in/card storage cabinet. The CLEC will be notified when the plug-in/card is replaced.

(B) The Company will not provide spare plug-ins/cards under any circumstances, nor is the Company responsible for the CLEC's failure to replace defective plug-ins/cards. The Company shall not be held responsible if the CLEC provides an inadequate supply of plug-ins/cards. The Company will segregate and secure the CLEC-provided maintenance spares in the CLEC-provided spare plug-in/card cabinet.

(C) The CLEC shall provide the shop-wired piece of equipment fully pre-equipped with working plug-ins/cards. In addition, the CLEC shall provide the Company with maintenance spares for each plug-in/card type. The number of maintenance spares shall be the manufacturer's recommended amount, unless otherwise mutually agreed by the Company and the CLEC, provided however, that in no event shall the number of spare plug-ins/cards be less than two of each type. These spares must be tested by the CLEC prior to delivery to the Company.

(D) In addition to maintenance spares, the CLEC will also provide any unique tools or test equipment required to maintain, turn-up, or repair the equipment.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.12 Virtual Collocation (Continued)

16.12.5 Plug-ins and Spare Cards (Continued)

(E) Upon receiving notification from the Company that a plug-in/card has been replaced, the CLEC is then responsible to contact the Company operations manager to arrange exchange and replacement of the plug-in/card. Exchanged, pre-tested spares shall be provided within one week of replacement of a defective plug-in/card.

(F) Subject to premises space availability, the CLEC shall have the option of providing a stand-alone spare plug-in/card cabinet(s) or a rack-mountable spare plug-in/card cabinet(s), to the Company's specification, to house the spare plug-ins/cards. The spare plug-in/card cabinet(s) and minimum number of maintenance spares must be provided before the virtual collocation arrangement is completed and service is established.

16.12.6 Safety and Technical Standards

(A) It is the CLEC's responsibility to demonstrate and provide to the Company adequate documentation from an accredited source certifying compliance.

(B) CLEC equipment must conform to the same specific risk/safety/hazard standards which the Company imposes on its own premises equipment as defined in RNSA – NEB – 95 – 0003, Revision 10 or higher.

(C) The Company reserves all rights to terminate, modify or reconfigure the provision of service to the CLEC if, in the discretion of the Company, provision of service to the CLEC may in any way interfere with or adversely affect the Company's network or its ability to service other CLECs.

(D) All CLEC equipment to be installed in Company premises must fully comply with the GR – 000063 – CORE, GR – 1089 – CORE and the Company's premises environmental and transmission standards in effect at the time of equipment installation. The equipment must also comply with the requirements in NIP 74165, as they relate to fire, safety, health, environmental, and network safeguards.

(E) CLEC equipment is not required to meet the same performance and reliability standards as the Company imposes on its own equipment as defined in RNSA – NEB – 95 – 0003, Revision 10 or higher. The CLEC may install equipment that has been deployed by the Company for five years or more with a proven safety record.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.12 Virtual Collocation (Continued)

16.12.6 Safety and Technical Standards (Continued)

(F) All the CLEC's entrance facilities and splices must comply with TR – TSY – 00020, TR – NWT – 001058, BR – 760 – 200 – 030 and SR – TAP – 001421 as they relate to fire, safety, health, environmental safeguards and interference with the Company's services and facilities. Such requirements include, but are not limited to the following: (1) The fibers must be single mode; (2) The fiber optic units must be of loose tube (12 fibers) or ribbon (12 fibers) design; (3) The fiber cable must be marked according to the cable marking requirements in GR – 20 – CORE, Section 6.2.1 – 4; (4) The fiber must be identified according to the fiber and unit identification (color codes) in GR – 20 – CORE, Section 5; (5) Unless otherwise mutually agreed, the outer cable jacket shall consist of a polyethylene resin, carbon black, and suitable antioxidant system; and (6) Silica fibers shall be fusible with a commercially available fusion splicer(s) that is commonly used for this operation. (T)

16.12.7 Control Over Premises Based Equipment

The Company exercises exclusive physical control over the premises-based transmission equipment that terminates the CLEC's circuits and provides the installation, maintenance, and repair services necessary to assure proper operation of the virtually collocated facilities and equipment. Such work will be performed by the Company under the direction of the CLEC.

16.12.8 Removal of Equipment

The Company reserves the right to remove facilities and equipment from its list of approved products if such products, facilities and equipment are determined to be no longer compliant with NEBS standards or GR – 1089 – CORE.

16.12.9 Installation and Trouble Resolution

The Company will process and prioritize the trouble ticket in the same manner it does for its own equipment, including the dispatch of a technician to the equipment. The technician will contact the CLEC at the number provided and service the equipment as instructed and directed by the CLEC.

16.12.10 Placement, Removal and Monitoring of Facilities and Equipment

(A) From manhole zero toward the CLEC's location the fiber optic cable remains the CLEC's responsibility, with the CLEC performing all servicing and maintaining full ownership.

(B) The CLEC has the responsibility to remotely monitor and control their circuits terminating in the Company's premises. However, the CLEC will not enter the Company's premises under virtual collocation arrangements.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.12 Virtual Collocation (Continued)

16.12.10 Placement, Removal and Monitoring of Facilities and Equipment (Continued)

(C) Performance and surveillance monitoring and trouble isolation shall be provided by the CLEC. A clear distinction must be made by the CLEC when submitting reports of troubles on the Company services/elements connected to the virtually collocated equipment and reports of troubles with the collocated equipment. The former can be handled using Company technicians and standard processes. The latter will require specially trained technicians familiar with the collocated equipment (refer to Section 16.12.11).

(D) When the CLEC isolates trouble and determines that a Company technician should be dispatched to the equipment location for a servicing procedure, the CLEC shall enter a trouble ticket with the Company. The CLEC shall provide standard trouble information, including the virtual collocation arrangement's circuit identification, nature of the activity request, and the name and telephone number of the CLEC's technician/contact.

(E) Responses to all equipment servicing needs will be at the CLEC's direction. Maintenance will not be performed without the CLEC's direct instruction and authorization.

(F) If the CLEC is providing its own transport fiber for the virtual collocation arrangement, the CLEC will arrange placement of the fiber into manhole zero with enough length (as designated by the Company) to reach the virtual collocation arrangement.

(G) Maintenance activity (trouble in the equipment) is to be tested, isolated and evaluated by the CLEC. Company technicians will perform the instructed activities on the equipment as specifically directed by the CLEC.

(H) The CLEC shall provide, own, and operate the terminal equipment at its site outside the Company's premises.

16.12.11 Use of Non-Standard Equipment

(A) When a CLEC requests a virtual collocation arrangement consisting of equipment which the Company does not use in its network nor has deployed in that particular premises to provide service to itself or another CLEC, the CLEC shall be responsible for training 50%, but no fewer than five, of the Company technicians in the administrative work unit responsible for servicing the equipment. Any special tools or electronic test sets that the Company does not have at the premises involved must be provided by the CLEC with adequate manufacturer's training.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.12 Virtual Collocation (Continued)

16.12.11 Use of Non-Standard Equipment (Continued)

(B) The CLEC is responsible to arrange and pay all costs (including but not limited to transportation and lodging for Company technicians) to have Company technicians professionally trained by appropriate trainers certified on the specific equipment to be used to provide the virtual collocation arrangement to the CLEC. The CLEC shall also pay for the Company technicians' time subject to tariffed rates. When travel is required, travel expenses associated with training will be charged to the CLEC based on ticket stubs and/or receipts. This includes paying for mileage according to the IRS rates for personal car mileage or airfare, as appropriate. The CLEC also has the option of arranging and paying for all travel expenses for Company technicians directly.

(C) In the event of an equipment upgrade, the CLEC must provide secondary training subject to the provisions contained herein.

16.12.12 Additions and Rearrangements

Once the CLEC has established a virtual collocation arrangement, changes to the existing configuration, (including but not limited to, expanding, upgrading, and/or reconfiguring the current equipment) are considered rearrangements to that virtual collocation arrangement. If the CLEC decides to rearrange an existing virtual collocation arrangement, the CLEC must submit a new application outlining the details of the rearrangement along with a Virtual Engineering/Major Augment fee.

16.12.13 Application of Rates and Charges

(A) Virtual Engineering Fee

The Company will require a Virtual Engineering/Major Augment fee (NRC) per virtual collocation request, per premise or other Company location where the CLEC requests to establish virtual collocation. A Virtual Engineering/Major Augment fee is required to be submitted by the CLEC with its application. This fee applies for all new virtual collocation arrangements as well as subsequent additions to an existing arrangement, and provides for application processing, and for the Company's performance of an initial site visit and an engineering evaluation.

If the CLEC cancels or withdraws its request for a virtual collocation arrangement prior to turn-up, the CLEC will be liable for all costs and liabilities incurred by the Company in developing, establishing, or otherwise furnishing the virtual collocation arrangement up to the point of cancellation or withdrawal.

(B) Other Virtual Collocation Rate Elements

The application, description, and rates of other Virtual Collocation rate elements are described in Sections 16.15 and 16.16.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.12 Virtual Collocation (Continued)

16.12.14 Conversions

Requests for converting Virtual Collocation arrangements to Caged or Cageless arrangements shall be submitted and designated as an Augment Application described in Section 16.3.5. Requests for converting a Virtual arrangement to a Cageless arrangement that requires no physical changes to the arrangement will be assessed a Minor Augment fee. All other conversion requests for Virtual to Caged or Cageless will be assessed an Engineering/Major Augment Fee and other applicable charges. The Company will notify the CLEC within ten (10) business days following receipt of the completed Augment Application if the CLEC conversion request is accepted or denied. When converting a Virtual arrangement to a Caged or Cageless arrangement, the CLEC's equipment may need to be relocated. The CLEC will be responsible for all costs associated with the relocation of its equipment as described in Section 16.3.7 preceding.

16.13 Microwave Collocation

Microwave collocation is available on a first-come first-served basis where technically feasible. The microwave equipment may include microwave antenna(s), mounts, towers or other antenna support equipment on the exterior of the building, and radio transmitter/receiver equipment located either inside or on the exterior of the building. All microwave antennas must be physically interconnected to Company facilities through the collocation arrangement.

16.13.1 Accommodations

(A) The Company will provide space within the cable riser, cable rack support structures and between the transmitter/receiver space and the roof space needed to reach the physical or virtual collocation arrangement and to access the Company's interconnection point. Waveguide may not be placed in Company cable risers or racks. The Company reserves the right to prohibit the installation of waveguide, metallic conduit and coaxial cable through or near sensitive equipment areas. The route of the waveguide and/or coaxial cable as well as any protection required will be discussed during the pre-construction survey.

(B) The Company will designate the space in, on or above the exterior walls and roof of the premises, which will constitute the roof space or transmitter/receiver space. The Company may require the CLEC's transmitter/receiver equipment to be installed in a locked cabinet, which may be free standing, wall mounted or relay rack mounted. The Company may enclose the CLEC's multiplexing node or transmitter/receiver equipment in a cage or room.

(C) At the option of the Company, the antenna support structure shall be built, owned and maintained by either the Company or by the CLEC. The Company reserves the right to use existing support structures for a CLEC's antenna, subject to space and capacity limitations. The Company also reserves the right to use any unused portion of a support structure owned by a CLEC for any reason, subject to the provisions set forth below. It shall be the responsibility of the owner of the support structure to maintain a record of the net book value of the structure. When the Company is the owner of the structure, it shall keep such records in accordance with the FCC's Part 32 Uniform System of Accounts. When the CLEC is the owner of the structure, it shall keep such records in accordance with Generally Accepted Accounting Principles.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.13 Microwave Collocation (Continued)

16.13.1 Accommodations (Continued)

(D) The owner of the support structure shall use reasonable efforts to accommodate requests by other CLECs to use the support structure for microwave interconnection on a first-come first-served basis.

(E) For those interconnecting via microwave facilities, transmitter/receiver equipment may be located in the CLEC's interior collocation space, or in a separate location inside or on the exterior of the building as determined by the Company.

16.13.2 Security

(A) The Company will permit the CLEC's employees, agents and contractors approved by the Company to have access to the areas where the CLEC's microwave antenna and associated equipment (e.g., tower and support structure, transmitter/receiver equipment, and waveguide and/or coaxial cable) are located during normal business hours for installation and routine maintenance, provided that the CLEC employees, agents and contractors comply with the policies and practices of the Company pertaining to fire, safety and security. Such approval will not be unreasonably withheld. During non-business hours, the Company will provide access on a per event basis.

(B) The Company will also permit all approved employees, agents and contractors of the CLEC to have access to the CLEC's cable and associated equipment (e.g., repeaters). This will include access to riser cable, cableways, and any room or area necessary for access.

16.13.3 Safety and Technical Standards

(A) The Company reserves the right to remove facilities and equipment from its list of approved products if such products, facilities and equipment are determined to be no longer compliant with NEBS standards or electromagnetic compatibility and electrical safety generic criteria for network telecommunication equipment specified in GR – 1089 – CORE. The Company will provide 90 days notice of the change unless it is due to an emergency, which renders notice impossible.

(B) The Company reserves the right to review wind or ice loadings, etc., for antennas over 18 inches in diameter or for any multiple antenna installations, and to require changes necessary to insure that such loadings meet generally accepted engineering criteria for radio tower structures.

(C) The minimum height of equipment placement, such as microwave antennas, must be eight feet from the roof. For masts, towers and/or antennas over 10 feet in height, the CLEC or if applicable, the Company, shall have the complete structure, including guys and supports, inspected every two years by an acceptable licensed professional engineer of its choice specializing in this type of inspection. For CLEC owned structures that are solely for the use of one CLEC's antenna(s), such inspection will be at the CLEC's own cost and expense. For structures used by multiple CLECs, the costs associated with such inspection shall be apportioned based on relative capacity ratios. A copy of this report will be filed with the Company within 10 days of the inspection. The owner shall be responsible to complete all maintenance and/or repairs, as recommended by the engineer, within 90 days.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.13 Microwave Collocation (Continued)

16.13.3 Safety and Technical Standards (Continued)

(D) The CLEC shall provide written notice to the Company of any complaint (and resolution of such complaint) by any governmental authority or others pertaining to the installation, maintenance or operation of the CLEC's facilities or equipment located in roof space or transmitter/receiver space. The CLEC also agrees to take all necessary corrective action.

(E) All CLEC microwave equipment to be installed in or on the exterior of the Company premises must be on the Company's list of approved products, or equipment that is demonstrated as complying with the technical specifications described herein. Where a difference may exist in the specifications, the more stringent shall apply.

(F) The CLEC must comply with Company technical specifications for microwave collocation interconnection specified in NIP – 74171 and the Company's digital switch environmental requirements specified in NIP – 74165, as they relate to fire, safety, health, environmental, and network safeguards, and ensure that CLEC provided equipment and installation activities do not act as a hindrance to Company services or facilities. The CLEC's equipment placed in or on roof space or transmitter/receiver space must also comply with all applicable rules and regulations of the FCC and the FAA.

(G) CLEC facilities shall be placed, maintained, relocated or removed in accordance with the applicable requirements and specifications of the current edition of NIP – 74171, national electric code, the national electrical safety code, rules and regulations of the OSHA, and any governing authority having jurisdiction.

(H) All CLEC microwave facilities must comply with Bellcore specifications regarding microwave and radio based transmission and equipment, CEF, BR – 760 – 200 – 030, and SR – TAP – 001421; and the Company's practices as they relate to fire, safety, health, environmental safeguards transmission and electrical grounding requirements, or interference with Company services or facilities.

(I) The equipment located in, on or above the exterior walls or roof of the Company's building must either be on the Company's list of approved products or fully comply with requirements specified in GR – 63 – CORE, GR – 1089 – CORE and NIP 74171. This equipment must also comply with NIP – 74160, premises engineering environmental and transmission standards as they relate to fire, safety, health, environmental safeguards, or interference with Company service or facilities.

(J) Each transmitter individually and all transmitters collectively at a given location shall comply with appropriate federal, state and/or local regulations governing the safe levels of radio frequency radiation. The minimum standard to be met by the CLEC in all cases is specified in ANSI C95.1 – 1982.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.13 Microwave Collocation (Continued)

16.13.3 Safety and Technical Standards (Continued)

(K) CLEC equipment must conform to the same specific risk, safety, hazard standards which the Company imposes on its own premises equipment as defined in RNSA – NEB – 95 – 0003, Revision 10 or higher. CLEC equipment is not required to meet the same performance and reliability standards as the Company imposes on its own equipment as defined in RNSA – NEB – 95 – 0003, Revision 10 or higher.

16.13.4 Placement and Removal of Facilities and Equipment

(A) Prior to installation of the CLEC's facilities or transmission equipment for microwave interconnection, the CLEC must obtain at its sole cost and expense all necessary licenses, permits, approvals, and/or variances for the installation and operation of the equipment and particular microwave system, and when applicable, for any towers or support structures, as may be required by authorities having jurisdiction.

(B) The CLEC is not permitted to penetrate the building exterior wall or roof when installing or maintaining transmission equipment and support structures. All building penetration will be done by the Company or a hired agent of the Company.

(C) Any CLEC's equipment used to produce or extract moisture must be connected to existing or newly constructed building or roof top drainage systems, at the expense of the CLEC.

(D) The CLEC will be responsible for supplying, installing, maintaining, repairing and servicing the following microwave specific equipment: Waveguide, waveguide conduit, and/or coaxial cable, the microwave antenna and associated tower and support structure and any associated equipment; and the transmitter/receiver equipment and any required grounding.

(E) The CLEC may install equipment that has been deployed by the Company for five years or more with a proven safety record.

16.13.5 Moves, Replacements or other Modifications

Where the CLEC intends to modify, move, replace or add to equipment or facilities within or about the roof space or transmitter/receiver space(s) and requires special consideration (e.g., use of freight elevators, loading dock, staging area, etc.), the CLEC must request and receive written consent from the Company. Such consent will not be unreasonably withheld. The CLEC shall not make any changes from initial installation in terms of the number of transmitter/receivers, type of radio equipment, power output of transmitters or any other technical parameters without the prior written approval of the Company.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.13 Microwave Collocation (Continued)

16.13.6 Space and Facilities

(A) Monthly rates are applicable to each microwave CLEC for the space (generally on the premises roof) associated with Company or CLEC owned antenna support structures. The rate is calculated using the rate per square foot, multiplied by the square footage of the footprint, which resultant is multiplied by the CLEC's Relative Capacity Ratio (RCR), (i.e., the sum of the RCRs of each of the CLEC's antennas).

(B) Square footage for the footprint will be based on the length multiplied times width of the entire footprint formed on the horizontal plane (generally the roof top) by the antenna(s), tower(s), mount(s), guy wires and/or support structures used by the CLEC. For a non-rectangular footprint, the length will be measured at the longest part of the footprint and the width will be the widest part of the footprint.

(C) The owner of the support structure may charge CLECs proposing to use the structure, on a one-time basis, for the following costs and/or values. Any incremental costs associated with installing the user's antenna, including but not limited to, the costs of engineering studies, roof penetrations, structural attachments, support structure modification or reinforcement, zoning and building permits. A portion of the net book value of the support structure based on the RCR of the user's proposed antennae to be mounted on the structure. A user's RCR represents the percent of the total capacity of the support structure used by user's antennae on the structure. Spare capacity shall be deemed to be that of the owner of the structure. RCRs shall be expressed as a two place decimal number, rounded to the nearest whole percent. The sum of all users' RCRs and the owner's RCR shall at all times equal 1.00. It shall be the responsibility of the owner of the structure to provide the proposed user the net book value of the structure at the time of the proposed use. Upon request, the owner shall also provide the proposed user accounting records or other documentation supporting the net book value.

(D) The owner of the structure may not assess other users of the structure any charges in addition to the one-time charge described above, except that the owner of the structure may assess other users a proportionate share of inspection costs and the Company may assess microwave CLECs monthly recurring charges for use of its roof space. At the time a CLEC (including the owner) proposes to attach additional antennae to an existing support structure, it shall be the responsibility of that CLEC to obtain, at their cost and expense, an engineering analysis by a registered structural engineer to determine the relative capacity ratio of all antennae on the structure, including the proposed antennae.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.13 Microwave Collocation (Continued)

16.13.6 Space and Facilities (Continued)

(E) When a CLEC is the owner of the structure, the proposed user shall pay the owner directly the one-time charge as set forth above. When the Company is the owner of the support structure, it shall determine the charge on an individual case basis. In the event that a CLEC who owns the support structure fails to comply with these provisions, at the Company's option, ownership of the support structure shall transfer to the Company.

(F) Costs incurred by he Company to conduct a review for wind or ice loadings etc., for antennas over 18 inches in diameter, or for any multiple antenna installation, and any changes which may be required thereto in order to insure that such loadings meet generally accepted engineering criteria for radio tower structures, will be billed to the CLEC.

16.13.7 Emergency Power and/or Environmental Support

In the event special work must be done by the Company to provide emergency power or environmental support to the transmitter/receiver equipment or antenna, the CLEC will be billed on a time and materials basis for the costs incurred.

16.13.8 Escorting

When a CLEC is escorted by a qualified Company employee for access to the roof space, transmitter/receiver space, or cable risers and racking for maintenance, the miscellaneous labor charges as set forth in Section 16.16.51 will apply.

16.14 Rate Regulations

16.14.1 Rates and Charges

Except as otherwise described herein, the rates for Company collocation services provided pursuant to this tariff are set forth in Section 16.16 following. The tariffed rates herein may be superseded by rates contained in future regulatory orders or as otherwise required by legal requirements.

16.14.2 Billing and Payment

(A) The initial payment of nonrecurring charges (NRCs) shall be due and payable in accordance with Section 16.4.1 preceding. The balance of the NRCs and all related monthly recurring service charges will be billed to the CLEC when the Company provides CLEC access to the caged, cageless or adjacent collocation arrangement and shall be payable in accordance with applicable established payment deadlines.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.14 Rate Regulations (Continued)

16.14.2 Billing and Payment (Continued)

(B) The Company will apply charges (e.g., nonrecurring and recurring rates for entry fiber, power, etc.) and commence billing for the virtual collocation arrangement upon completion of the installation, when it shall have finished all elements of the installation under its control. The readiness of the CLEC to utilize the completed virtual collocation arrangement will not impair the right of the Company to commence billing.

(C) The Company shall charge the CLEC for all costs incurred in providing the virtual collocation arrangement, including, but not limited to, the Company's planning, engineering and installation time and costs incurred by the Company for inventory services. Any and all expenses associated with placing the CLEC's fiber in manhole zero, including license fees, shall be the responsibility of the CLEC.

16.15 Description and Application of Rate Elements

16.15.1 Non-Recurring Charges

The following are non-recurring charges (one-time charges) that apply for specific work activity.

(A) Engineering/Major Augment Fee

The Engineering/Major Augment Fee applies for each initial Caged, Cageless, Virtual, or Microwave collocation request and major augment requests for existing Caged, Cageless, and Virtual collocation arrangements. This charge recovers the costs of the initial walkthrough to determine if there is sufficient collocation space, the best location for the collocation area, what building modifications are necessary to provide collocation, and if sufficient DC power facilities exist in the premises to accommodate collocation. This fee also includes charges for the total time for the Building Services Engineer, Outside Plant and Central Office Engineers to attend status meetings.

(B) Minor Augment Fee

The Minor Augment Fee applies for each minor augment request of an existing Caged, Cageless, Virtual, or Microwave collocation arrangement that does not require additional AC or DC power systems, HVAC system upgrades, or additional cage space. Minor augments are those requests that require the Company to perform a service or function on behalf of the CLEC including, but not limited to installation of Virtual equipment cards or software upgrades, removal of Virtual equipment, requests to pull cable from exterior microwave facilities, and requests to terminate DSO, DS1 and DS3 cables.

(C) Access Card Administration

The Access Card Administration rate covers activities associated with the issuance and management of premises access cards. The rate is applied on a per card basis.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.15 Description and Application of Rate Elements (Continued)

16.15.1 Non-Recurring Charges (Continued)

(D) Cage Enclosure

The Cage Enclosure rate is applied per caged arrangement. This rate includes the labor and materials to recover the costs incurred in constructing the CLEC's cage, cage gate, and grounding bar. There are five caged enclosure rate elements based on the size of the cage: 25 to 100 square feet; 101 to 200 square feet; 201 to 300 square feet; 301 to 400 square feet; and 401 to 500 square feet after cage.

(E) Cage Enclosure Augment

The Cage Enclosure Augment rate is applied per square foot of fencing when a CLEC requests additional fencing for an existing caged arrangement.

(F) BITS Timing

The non-recurring charge for BITS Timing includes engineering, materials, and labor costs to wire a BITS port to the CLEC's equipment. If requested, it is applied on a per project basis.

(G) Overhead Superstructure

The Overhead Superstructure charge is applied for each initial caged and cageless collocation application. The Overhead Superstructure charge is designed to recover the Company's engineering, material, and installation costs for extending dedicated overhead superstructure.

(H) Facility Pull-Engineering

The Facility Pull-Engineering charge is applied per project to recover the engineering costs of pulling metallic cable or fiber optic patchcord from the collocation cage or relay rack to the Main Distribution Frame block, DSX panel or fiber distribution panel. The charge would also apply per project to recover the engineering costs of pulling transmission cable from microwave antennae facilities on the rooftop to the collocation cage or relay rack.

(I) Facility Pull

The Facility Pull charge is applied per cable run and recovers the labor cost of pulling metallic cable or fiber optic patchcord from the collocation cage or relay rack to the Main Distribution Frame block, DSX panel, or fiber distribution panel.

(J) Cable Termination

The Cable Termination charge is applied per cable or fiber optic patchcord terminated and is designed to recover the labor cost of terminating transmission cable or fiber optic patchcord from the collocation cage or relay rack to the Main Distribution Frame block, DSX panel, or fiber distribution panel.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.15 Description and Application of Rate Elements (Continued)

16.15.1 Non-Recurring Charges (Continued)

(K) Fiber Cable Pull-Engineering

The Fiber Cable Pull-Engineering charge is applied per project to cover the engineering costs for pulling the CLEC's fiber cable, when necessary, into the Company's central office.

(L) Fiber Cable Pull-Place Innerduct

The Fiber Cable Pull-Place Innerduct charge is applied per linear foot to cover the cost of placing innerduct. Innerduct is the split plastic duct placed from the cable vault to the CLEC's equipment area through which the CLEC's fiber cable is pulled.

(M) Fiber Cable Pull-Labor

This charge is applied per linear foot and covers the labor costs of pulling the CLEC's fiber cable into the Company's central office.

(N) Fiber Cable Pull-Fire Retardant

This charge is associated with the filling of space around cables extending through walls and between floors with a non-flammable material to prevent fire from spreading from one room or floor to another.

(O) Fiber Splice-Engineering

The Fiber Splice-Engineering charge is applied per project and covers the engineering costs for fiber cable splicing projects.

(P) Fiber Splice

The Fiber Splice charge is applied per fiber cable spliced and recovers the labor cost associated with the splicing.

(Q) DC Power

The DC Power Charge is applied per 40 load amps requested for each caged, cageless, and virtual collocation application. This NRC recovers the Company's engineering, material and installation costs for providing and terminating DC power runs to the collocation area.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.15 Description and Application of Rate Elements (Continued)

16.15.1 Non-Recurring Charges (Continued)

(R) Cable Material Charges

The CLEC has the option of providing its own cable or the Company may, at the CLEC's request, provide the necessary transmission and power cables. If the Company provides these cables, the applicable Cable Material Charge will be charged.

(S) Adjacent Engineering Fee

The Adjacent Engineering Fee provides for the initial activities of the Central Office Equipment Engineer, Land & Building Engineer, and the Outside Plant Engineer associated with determining the capabilities of providing Adjacent On-Site collocation. The labor charges are for an on-site visit, preliminary investigation of the manhole/conduit systems, wire center and property, and contacting other agencies that could impact the provisioning of adjacent collocation.

(T) Adjacent Fiber Cable Pull–Engineering

The Adjacent Fiber Cable Pull–Engineering fee provides for engineering associated with pulling the CLEC's fiber cable in an adjacent collocation arrangement. The Adjacent Fiber Cable Pull-Engineering charge includes the time incurred by the Outside Plant Engineer on the project to determine the conduit/ subduct assignment and associated outside plant activity to complete the work.

(U) Adjacent Fiber Cable Pull–Place Innerduct

This NRC covers the cost for placing innerduct, if required for adjacent collocation, which is the split plastic duct placed from the cable vault to the CLEC's equipment area through which the CLEC's fiber is pulled.

(V) Adjacent Fiber Cable Pull–Labor

This charge covers the labor costs for pulling CLEC fiber cable for an adjacent collocation arrangement. Refer to Adjacent Fiber Cable Pull–Engineering above.

(W) Adjacent–Cable Fire Retardant

This charge is associated with the filling of space around cables extending through walls and between floors with a non-flammable material to prevent fire from spreading from one room or floor to another.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.15 Description and Application of Rate Elements (Continued)

16.15.1 Non-Recurring Charges (Continued)

(X) Adjacent Metallic Cable Pull–Engineering

This NRC covers the engineering costs of pulling metallic cable for Adjacent collocation into the Company wire center. For Adjacent collocation, the metallic cable will be spliced in the cable vault to a stubbed connector located on the vertical side of the main distribution frame to provide proper protection for central office equipment.

(Y) Adjacent Metallic Cable Pull–Labor

This charge covers the labor costs of pulling metallic cable for Adjacent collocation into the Company wire center.

(Z) Adjacent Cable Splice–Engineering

This charge covers the outside plant engineering costs for cable splice projects associated with an adjacent collocation arrangement.

(AA) Adjacent DS1/DS0 Cable Splice-Greater Than 200 Pair

This charge is for the labor to splice metallic cables and is based on a per pair spliced.

(AB) Adjacent DS1/DS0 Cable Splice-Less Than 200 Pair

This charge is for the labor to splice metallic cables and is based on a per pair spliced.

(AC) Adjacent Fiber Cable Splice

This charge covers the engineering cost and labor to splice fiber cables and is based on a per fiber spliced.

(AD) Adjacent Facility Pull-Engineering

This charge covers the engineering cost associated with the interconnection wire (cable) from the main distribution frame connector to a termination block or DSX panel.

(AE) Adjacent Facility Pull-Labor

This charge covers the labor of running the interconnection wire (cable) from the main distribution frame connector to a termination block or DSX panel.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.15 Description and Application of Rate Elements (Continued)

16.15.1 Non-Recurring Charges (Continued)

(AF) Adjacent DS0 Cable Termination (Connectorized)/Adjacent DS0 Cable Termination (Unconnectorized)

These charges cover the labor to terminate these types of interconnection wire (cable) for adjacent collocation to the main distribution frame block or DSX panel.

(AG) Adjacent DS1 Cable Termination (Connectorized)/Adjacent DS1 Cable Termination (Unconnectorized)

These charges cover the labor of terminating these types of interconnection wire (cable) for adjacent collocation to the main distribution frame block or DSX panel.

(AH) Adjacent DS3 Coaxial Cable Termination (Preconnectorized) /Adjacent - DS3 Coaxial Cable Termination (Unconnectorized)

These charges cover the labor of terminating this type of interconnection wire (cable) for adjacent collocation to the main distribution frame block or DSX panel.

(AI) Adjacent Fiber Cable Termination

This charge covers the labor of terminating fiber cable, per fiber strand, for adjacent collocation to a fiber distribution panel.

(AJ) Collocation Space Report

When requested by a CLEC, the Company will submit a report that indicates the Company's available collocation space in a particular premises. The report will be issued within ten calendar days of the request. The report will specify the amount of collocation space available at each requested premises, the number of collocators and any modifications in the use of the space since the last report. The report will also include measures that the Company is taking to make additional space available for collocation.

(AK) Miscellaneous Services–Labor

Additional labor, if required by the Company to complete a collocation request or perform inventory services for CLECs, will be rated as set forth in Section 16.16 following.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.15 Description and Application of Rate Elements (Continued)

16.15.1 Non-Recurring Charges (Continued)

(AL) Engineering/Major Augment Fee (Microwave Only)

The Engineering/Major Augment Fee for Microwave Collocation applies when an existing Caged and Cageless collocation arrangement is augmented with newly installed microwave antennae and other exterior facilities. This charge recovers the costs of the initial walkthrough to determine if there is sufficient space, the best location for the microwave antennae and other exterior facilities, what building modifications are necessary, if any, and if sufficient support facilities exist in the premises to accommodate the microwave antennae and other exterior facilities. This fee also includes the total time for the Building Services Engineer to coordinate the entire project.

(AM) Facility Pull (Microwave Only)

The Facility Pull charge is applied per linear foot and recovers the labor cost of pulling transmission cable from the microwave antennae and other exterior facilities on the rooftop to the transmission equipment in the collocation cage or relay rack.

(AN) Building Penetration for Microwave Cable

Reasonable costs to penetrate buildings for microwave cable to connect microwave antennae facilities and other exterior facilities to the transmission equipment in the collocation cage or relay rack will be determined and applied on an individual case basis, where technically feasible, as determined by the initial and subsequent engineer surveys.

(AO) Special Work for Microwave

Costs incurred by the Company for installation of CLEC's microwave antennae and other exterior facilities that are not recovered via other microwave rate elements will be determined and applied on an individual case basis.

(AP) Virtual Equipment Installation

The Virtual Equipment Installation charge is applied on a per quarter rack (or quarter bay) basis and recovers the costs incurred by the Company for engineering and installation of the virtual collocation equipment. This charge would apply to the installation of powered equipment including, but not limited to: ATM, DSLAM, Frame Relay, Routers, OC3, OC12, OC24, OC48, and NGDLC. This charge does not apply for the installation of splitters.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.15 Description and Application of Rate Elements (Continued)

16.15.1 Non-Recurring Charges (Continued)

(AQ) Virtual Software Upgrade

The Virtual Software Upgrade charge is applied per base unit when the Company, upon CLEC request, installs software to upgrade equipment for an existing Virtual Collocation arrangement.

(AR) Virtual Card Installation

The Virtual Card Installation charge is applied per card when the Company, upon CLEC request, installs additional cards for an existing Virtual Collocation arrangement.

(AS) Cage Ground Bar

If a CLEC elects to subcontract collocation cage construction to a Company approved contractor, the Company will provision a ground bar in the CLEC's cage. The charge is applied per ground bar and recovers the material and labor costs to install the grounding bar, including necessary grounding wire.

(AT) Dedicated Transit Service (DTS) – Service Order Charge

This charge applied per DTS order for recovery of DTS order placement and issuance costs. The manual charge applies when the semi-mechanized ordering interface is not used.

(AU) Dedicated Transit (DTS) – Service Connection CO Wiring

This charge applied per DTS jumper to the requesting CLEC for recovery of DTS jumper material, wiring, and service turn-up for DS0, DS1, DS3 and dark fiber circuits.

(AV) Dedicated Transit Service (DTS) – Service Connection Provisioning

This charge applied per DTS order to the requesting CLEC for recovery of circuit design and labor costs associated with the provisioning of DS0, DS1, DS3 and dark fiber circuits for DTS.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.15 Description and Application of Rate Elements (Continued)

16.15.2 Monthly Charges

The following are monthly charges. Monthly charges apply each month or fraction thereof that Collocation Service is provided.

(A) Caged Floor Space

Caged Floor Space is the cost per square foot to provide environmentally conditioned caged floor space to the CLEC. Environmentally conditioned space is space that which has proper humidification and temperature controls to house telecommunications equipment. The cost includes only that which relates directly to the land and building space itself.

(B) Relay Rack Floor Space

The Relay Rack Floor Space charge provides for the environmentally conditioned floor space that a relay rack occupies based on linear feet. The standardized relay rack floor space depth is based on half the aisle area in front and back of the rack, and the depth of the equipment that will be placed within the rack.

(C) Cabinet Floor Space

The Cabinet Floor Space charge provides for the environmentally conditioned floor space that a telecommunications equipment cabinet occupies based on linear feet. The standardized floor space depth is based on the size of the cabinet and half of the aisle in the front and rear of the cabinet. The cabinet size is based on the Company's standard cabinet size of 33 inches by 29 inches.

(D) Cable Subduct Space–Manhole

This charge applies per project per month and covers the cost of the space that the outside plant fiber occupies within the manhole.

(E) Cable Subduct Space

The Subduct Space charge covers the cost of the subduct space that the outside plant fiber occupies and applies on a per linear foot basis.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.15 Description and Application of Rate Elements (Continued)

16.15.2 Monthly Charges (Continued)

(F) Fiber Cable Vault for 48 and 96 Fiber Cables Splice

The Fiber Cable Vault Splice charge applies per subduct and per splice and covers the space and material cost associated with the CLEC's fiber cable splice within the Company's cable vault for 48 and 96 Fiber Cables.

(G) Cable Rack Space-Metallic

The Cable Space–Metallic charge is applied for each DS0, DS1 and DS3 cable run. The charge is designed to recover the space utilization cost that the CLEC's metallic and coaxial cable occupies within the Company's cable rack system.

(H) Cable Rack Space-Fiber

The Cable Rack Space-Fiber charge recovers the space utilization cost that the CLEC's fiber cable occupies within the Company's cable rack system.

(I) DC Power

The DC Power monthly charge is applied on a per 40 load amp basis. This charge is designed to recover the monthly facility and utility expense to power the collocation equipment.

(J) Facility Termination

This charge is applied per cable terminated. This charge is designed to recover the labor and material costs of the applicable main distribution frame 100 pair circuit block, DSX facility termination panel, or fiber distribution panel.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.15 Description and Application of Rate Elements (Continued)

16.15.2 Monthly Charges (Continued)

(K) BITS Timing

The BITS Timing monthly charge is designed to recover equipment and installation cost to provide synchronized timing for electronic communications equipment. This rate is applied on a per port basis.

(L) Building Modification

The Building Modification monthly charge is applied to each caged and cageless arrangement and is associated with provisioning the following items in the Company's premises: security, dust partition, ventilation ducts, demolition/site work, lighting, outlets, and grounding equipment.

(M) Environmental Conditioning

The Environmental Conditioning charge is applied to each caged, cageless, and virtual arrangement on a per 40 amp increment based on the CLEC's DC Power requirements. This charge is associated with the provisioning of heating, ventilation, and air conditioning systems for the CLEC's equipment in the Company's premises.

(N) Adjacent Cable Subduct Space–Manhole

This charge covers the space utilization cost that the outside plant fiber or metallic cable occupies within the manhole.

(O) Adjacent Cable Subduct Space

The Adjacent Cable Subduct Space charge covers the space utilization cost of the subduct that the outside plant fiber or metallic cable occupies within the conduit system.

(P) Adjacent Conduit Space (Metallic)-Manhole

This charge covers the space utilization cost that the outside plant metallic cable occupies within the manhole.

(Q) Adjacent Conduit Space (Metallic)

This charge covers the space utilization cost that the outside plant metallic cable occupies within the conduit system.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.15 Description and Application of Rate Elements (Continued)

16.15.2 Monthly Charges (Continued)

(R) Adjacent Facility Termination DS0 Cable

This charge is applied per 100 pair cable terminated. This charge is designed to recover the labor and material cost of the main distribution frame 100 pair circuit block.

(S) Adjacent Facility Termination DS1 Cable

The Facility Termination (DS1) charge is applied per 28 pair DS1 cable terminated. This charge is designed to recover the labor and material cost of the DSX facility termination panel.

(T) Adjacent Facility Termination DS3 Cable

The Facility Termination (DS3) charge is applied per DS3 cable terminated. This charge recovers the labor and material cost of the DSX facility termination panel.

(U) Adjacent Cable Vault Space

The Adjacent Cable Vault Space charge covers the cost of the space the CLEC's cable occupies within the cable vault. The charge is based on the diameter of the cable or subduct.

(V) Adjacent Cable Rack Space

This charge covers the space utilization cost that the CLEC's fiber, metallic or coaxial cable occupies within the cable rack system. The charge is based on the linear feet occupied.

(W) Microwave Rooftop Space

Microwave Rooftop Space is the cost per square foot to provide rooftop space to the CLEC for microwave antennae and other exterior facilities. The cost includes only that which relates directly to the land and building space itself.

(X) Virtual Equipment Maintenance

The Virtual Equipment Maintenance charge is applied on a per quarter rack (or quarter bay) basis and recovers the cost incurred by the Company for maintenance of the CLEC's virtual collocation equipment. This charge would apply to the maintenance of equipment including, but not limited to: ATM, DSLAM, Frame Relay, Routers, OC3, OC12, OC24, OC48, and NGDLC. This charge does not apply for the maintenance of splitters.

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.16 Rates and Charges

		NRC	MONTHLY CHARGE
16.16.1	Engineering/Major Augment Fee, Per Occurrence		
	Caged or Cageless	$1,129.00	--
	Virtual	693.40	--
	Microwave Augment	1,624.92	--
16.16.2	Minor Augment Fee, Per Occurrence	200.00	--
16.16.3	Access Card Administration, Per Card	23.00	--
16.16.4	Cage Enclosure		
	25-100 Sq.Ft.	5,769.00	--
	101-200 Sq.Ft.	6,715.00	--
	201-300 Sq.Ft.	8,423.00	--
	301-400 Sq.Ft.	10,131.00	--
	401-500 Sq.Ft.	11,839.00	--
16.16.5	Cage Enclosure Augment		
	Per Sq.Ft. Fencing	17.00	--
16.16.6	BITS Timing,		
	Per Project	307.00	--
	Per Month	--	$10.00
16.16.7	Overhead Superstructure, Per Project	2,309.00	--
16.16.8	Facility Pull-Engineering,		
	Per Project	69.00	--
16.16.9	Facility Pull, Per Cable Run		
	Metallic	176.00	--
	Fiber Optic Patchcord	201.65	--

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.16 Rates and Charges (Continued)

		NRC	MONTHLY CHARGE
16.16.10	Cable Termination		
	DSO Cable, per 100 pair cable Terminated	$ 4.00	--
	DS1 Cable, per 28 pair cable terminated	1.00	--
	DS3 Coaxial Cable (Preconnectorized) per cable terminated	1.00	--
	DS3 Coaxial Cable (Unconnectorized) per cable terminated	9.00	--
	Fiber Optic Patchcord Per termination	1.09	--
16.16.11	Fiber Cable Pull-Engineering		
	Per Project	607.00	--
16.16.12	Fiber Cable Pull-Place Innerduct		
	Per Linear Foot	2.00	--
16.16.13	Fiber Cable Pull-Labor		
	Per Linear Foot	1.00	--
16.16.14	Fiber Cable Pull-Cable Fire Retardant		
	Per Occurrence	35.00	--
16.16.15	Fiber Splice-Engineering		
	Per Project	31.00	--
16.16.16	Fiber Cable Splice		
	Per Fiber	47.00	--
16.16.17	DC Power, Per 40 Amps		
	Per Project	2,288.00	--
	Per Month	--	559.00

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.16 Rates and Charges (Continued)

		NRC	MONTHLY CHARGE
16.16.18	Cable Material Charge		
	Facility Cable, Per Cable Run		
	DSO Cable (Connectorized)		
	100 Pair	$331.00	--
	DS1 Cable (Connectorized)	307.00	--
	DS3 Coaxial Cable	84.00	--
	Shielded Cable (Orange Jacket)	34.00	--
	Fiber Optic Patchcord-24 Fiber (Connectorized)	830.65	--
	Facility Cable, Per Linear Foot		
	Category 5 (Connectorized)	1.09	--
	Power Cable, Per Cable Run		
	Wire Power 1/0	93.00	--
	Wire Power 2/0	135.00	--
	Wire Power 3/0	149.00	--
	Wire Power 4/0	184.00	--
	Wire Power 350 MCM	313.00	--
	Wire Power 500 MCM	437.00	--
	Wire Power 750 MCM	673.00	--
16.16.19	Caged Floor Space, Per Square Foot, Per Month	--	$5.00
16.16.20	Relay Rack Floor Space, Per Linear Foot, Per Month	--	21.00
16.16.21	Cabinet Floor Space, Per Linear Foot, Per Month	--	29.00
16.16.22	Cable Subduct Space-Manhole Per Project, Per Month	--	4.00
16.16.23	Cable Subduct Space Per Linear Foot, Per Month	--	.02
16.16.24	Fiber Cable Vault Splice-48 Fiber Material, Per Splice, Per Month	--	9.00
16.16.25	Fiber Cable Vault Splice-48 Fiber Per Subduct, Per Month	--	1.00
16.16.26	Fiber Cable Vault Splice-96 Fiber Material, Per Splice, Per Month	--	24.00

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.16 Rates and Charges (Continued)

	NRC	MONTHLY CHARGE
16. 16.27 Fiber Cable Vault Splice-96 Fiber		
Per Subduct, Per Month	--	1.00
16. 16.28 Cable Rack Space-Metallic		
Per Cable Run, Per Month	--	2.00
16. 16.29 Cable Rack Space-Fiber		
Fiber Entrance Facility Cable, Per Innerduct Foot, Per Month	--	.01
Fiber Optic Patchcord to Fiber Distribution Frame, Per Cable, Per Month	--	.55
16. 16.30 Facility Termination		
DSO, Per 100 Pair, Per Month	--	4.00
DS1, Per 28 Pair, Per Month	--	16.00
DS3, Per DS3, Per Month	--	10.00
Fiber Optic Patchcord, Per Connector, Per Month		1.00
16. 16.31 Building Modification		
Per Project	--	184.00
16. 16.32 Environmental Conditioning		
Per 40 Amps DC Power	--	70.00
16. 16.33 Adjacent Engineering Fee		
On-Site, Per Occurrence	958.00	--
16. 16.34 Adjacent Fiber Cable Pull-		
Engineering, Per Project	607.00	--
16. 16.35 Adjacent Fiber Cable Pull-Place		
Innerduct, Per Linear Foot	2.00	--
16. 16.36 Adjacent Fiber Cable Pull		
Per Linear Foot	1.00	--
16. 16.37 Adjacent Cable Fire Retardant		
Per Occurrence	35.00	--
16. 16.38 Adjacent Metallic Cable Pull-		
Engineering, Per Project	607.00	--

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16.16 Rates and Charges (Continued)

	NRC	MONTHLY CHARGE
16. 16.39 Adjacent Metallic Cable Pull		
Per Linear Foot	1.00	--
16. 16.40 Adjacent Metallic Cable Splice		
Engineering, Per Project	31.00	--
Greater than 200 Pair,		
Per DSO/DS1 Pair	1.00	--
200 Pair or Less, Per DSO/DS1 Pair	3.00	--
16. 16.41 Adjacent Fiber Cable Splice		
Engineering, Per Fiber	31.00	--
48 Fiber or Less, Per Fiber	47.00	--
Greater than 48 Fiber, Per Fiber	45.00	--
16. 16.42 Adjacent Facility Pull-Engineering		
Per Project	69.00	--
16. 16.43 Adjacent Facility - Pull Labor		
Per Linear Foot	1.00	--
16. 16.44 Adjacent Cable Termination		
DSO Cable (Connectorized)		
Per 100 Pair	4.00	--
DSO Cable (Unconnectorized)		
Per 100 Pair	35.00	--
DS1 Cable (Connectorized)		
Per 28 Pair	1.00	--
DS1 Cable (Unconnectorized)		
Per 28 Pair	27.00	--
DS3 Coaxial Cable (Preconnectorized)		
Per DS3	1.00	--
DS3 Cable (Unconnectorized)		
Per DS3	9.00	--
Fiber Cable, Per Fiber Termination	47.00	--
16. 16.45 Adjacent Subduct Space		
Manhole, Per Project	--	$4.00
Per Linear Foot	--	0.02

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16. 16 Rates and Charges (Continued)

		NRC	MONTHLY CHARGE
16. 16.46	Adjacent Conduit Space (4" Duct)		
	Manhole, Metallic, Per Conduit	--	$ 8.00
	Metallic, Per Linear Foot	--	0.04
16. 16.47	Adjacent Facility Termination-Material		
	DSO Cable, Per 100 Pair	--	4.00
	DS1 Cable, Per 28 Pair	--	16.00
	DS3 Cable, Per Coaxial	--	10.00
16. 16.48	Adjacent Cable Vault Space		
	Per 1200 Pair, Material, Per Splice	--	435.00
	Per 1200 Pair, Per Cable	--	4.00
	Per 900 Pair, Material, Per Splice	--	318.00
	Per 900 Pair, Per Cable	--	3.00
	Per 600 Pair, Material, Per Splice	--	212.00
	Per 600 Pair, Per Cable	--	3.00
	Per 100 Pair, Material, Per Splice	--	44.00
	Per 100 Pair, Per Cable	--	1.00
	Per 48 Fiber, Material, Per Splice	--	9.00
	Per 48 Fiber, Per Subduct	--	1.00
	Per 96 Fiber, Material, Per Splice	--	24.00
	Per 96 Fiber, Per Subduct	--	1.00
16. 16.49	Adjacent Cable Rack Space		
	Metallic DSO, Per Linear Foot	--	0.01
	Metallic DS1, Per Linear Foot	--	0.01
	Fiber, Per Innerduct Foot	--	0.02
	Coaxial, Per Linear Foot	--	0.01
16.16.50	Collocation Space Report-Per Wire		
	Center or Access Tandem Requested	$1,218.00	--
16.16.51	Labor Rates, Per Technician		
	Basic Business Day		
	1st Half Hour	78.98	--
	Each Additional Half Hour	39.49	--
	Overtime Non-Business Day		
	1st Half Hour	100.00	--
	Each Additional Half Hour	75.00	--
	Premium Non-Business Day		
	1st Half Hour	150.00	--
	Each Additional Half Hour	125.00	--

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16. 16 Rates and Charges (Continued)

		NRC	MONTHLY CHARGE
16.16.52	Facility Pull (Microwave Only), Per Linear Foot	$ 1.09	--
16.16.53	Microwave Rooftop Space Per Square Foot, Per Month	$	5.13
16.16.54	Building Penetration for Microwave Cable, Per Occurrence	ICB	--
16.16.55	Special Work for Microwave, Per Occurrence	ICB	--
16.16.56	Virtual Equipment Installation, Per Quarter Rack	3,357.02	--
16.16.57	Virtual Software Upgrade, Per Base Unit	93.17	--
16.16.58	Virtual Card Installation, Per Card	228.90	--
16.16.59	Virtual Equipment Maintenance, Per Quarter Rack	--	79.80
16.16.60	Cage Ground Bar	1,416.19	--
16.16.61	Dedicated Transit Service (DTS)		
	DS0		
	Service Order, Semi-Mechanized, per order	21.89	--
	Service Order, Manual, per order	38.02	--
	Service Order CO Wiring, per jumper	6.95	--
	Service Connection Provisioning, per order	82.27	--
	DS1, DS3, Dark Fiber		
	Service Order, Semi-Mechanized, per order	21.89	--
	Service Order, Manual, per order	38.02	--
	Service Order CO Wiring, per jumper	16.92	--
	Service Connection Provisioning, per order	95.89	--

(continued)

ACCESS SERVICE

16. COLLOCATION SERVICE (Continued)

16. 16 Rates and Charges (Continued)

16.16.62 Extraordinary Charges

Collocator will be responsible for all extraordinary construction costs, incurred by Frontier to prepare the Collocation space for the installation of Collocator's equipment and for extraordinary costs to maintain the Collocation space for Collocator's equipment on a going-forward basis. Extraordinary costs may include costs (but not limited to) for such items as asbestos removal, fire suppression system or containment, modifications or expansion of cable entry facility, increasing the DC power system infrastructure capacity, increasing the capacity of the AC system (if available), or of the existing commercial power facility, installation, maintenance, repair, monitoring of securing measures, conversion of non-Collocation space, or other modifications required by local ordinances. Ordinary costs may become extraordinary by their unusual nature (e.g. volume that is substantially beyond the average or typical Collocation arrangement or request) or its infrequency of occurrence (e.g. construction that will benefit only the requesting Collocator). (N)

Frontier will charge a one-time, non-recurring fee for extraordinary costs on a time-sensitive or time-and-materials basis. Extraordinary costs will only be billed upon receipt of the signed acceptance and construction will not begin until receipt of the Collocator's signed acceptance and payment. (N)

ACCESS SERVICE

17. PROMOTIONS

17.1 General

The Utility may from time to time engage in promotions of its service offerings designed to attract new customers or to increase awareness of particular offerings among existing customers. These promotions will be for a limited time period and will typically involve the waiver or discount of recurring and/or nonrecurring charges for the customer (if eligible) of the target services. Such promotions shall be made to all similarly situated customers.