

ACCESS SERVICE

Regulations, Rates and Charges
applying to the provision of Access Services
for connection to intrastate interexchange communications facilities
for customers within the operating territories of
Citizens Utilities Rural Company, Inc.
in Arizona

D/B/A (N)

Frontier Citizens Utilities Rural (N)

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

ACCESS SERVICE

TABLE OF CONTENTS

	<u>SHEET NO.</u>
<u>CONCURRING CARRIERS</u>	16
<u>CONNECTING CARRIERS</u>	16
<u>OTHER PARTICIPATING CARRIERS</u>	16
<u>REGISTERED SERVICE MARKS</u>	16
<u>REGISTERED TRADEMARKS</u>	16
<u>EXPLANATION OF SYMBOLS</u>	17
<u>EXPLANATION OF ABBREVIATIONS</u>	17 - 18
<u>REFERENCE TO OTHER TARIFFS</u>	19
<u>REFERENCE TO TECHNICAL PUBLICATIONS</u>	19 - 20 - 21

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ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>SECTION</u>	<u>SHEET NO.</u>
1. <u>APPLICATION OF TARIFF</u>	1	1
2. <u>GENERAL REGULATIONS</u>	2	1
2.1 <u>Undertaking of the Telephone Company</u>	2	1
2.1.1 Scope	2	1
2.1.2 Limitations	2	1
2.1.3 Liability	2	3
2.1.4 Provision of Services	2	5
2.1.5 Installation and Termination of Services	2	5
2.1.6 Maintenance of Services	2	5
2.1.7 Changes and Substitutions	2	6
2.1.8 Refusal and Discontinuance of Service	2	7
2.1.9 Limitation of Use of Metallic Facilities	2	8
2.1.10 Notification of Service-Affecting Activities	2	8
2.1.11 Coordination with Respect to Network Contingencies	2	8
2.1.12 Provisions and Ownership of Telephone Numbers	2	8
2.1.13 Special Fees, Taxes, Charges	2	8
2.2 <u>Use</u>	2	9
2.2.1 Interference or Impairment	2	9
2.2.2 Unlawful Use	2	9
2.3 <u>Obligations of the Customer</u>	2	10
2.3.1 Damages	2	10
2.3.2 Ownership of Facilities and Theft	2	10
2.3.3 Equipment Space and Power	2	10
2.3.4 Availability for Testing	2	11
2.3.5 Balance	2	11
2.3.6 Design of Customer Services	2	11
2.3.7 References to the Telephone Company	2	11
2.3.8 Claims and Demands for Damages	2	12
2.3.9 Coordination with Respect to Network Contingencies	2	13
2.3.10 Sectionalization of Trouble Reporting	2	13
2.2.11 Identification and Rating of VoIP-PSTN Traffic	2	13

(N)

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>SECTION</u>	<u>SHEET NO.</u>	
2.	<u>GENERAL REGULATIONS</u> (Cont'd)		
2.4	<u>Payment Arrangements and Credit Allowances</u>	2	14 (T)
2.4.1	Payment of Rates, Charges and Deposits	2	14 (T)
2.4.2	Minimum Periods	2	20
2.4.3	Cancellation of an Order for Service	2	20
2.4.4	Credit Allowance for Service Interruptions	2	21
2.4.5	Re-establishment of Service Following Fire, Flood or Other Occurrence	2	26
2.4.6	Title or Ownership Rights	2	27
2.4.7	Access Services Provided by More Than One Telephone Company	2	28
2.5	<u>Connections</u>	2	32
2.6	<u>Definitions</u>	2	32
	Access Area	2	32
	Access Code	2	33
	Access Minutes	2	33
	Access Tandem	2	33
	Access Tandem Network	2	33
	Answer/Disconnect Supervision	2	33
	Area of Service	2	33.1
	Attenuation Distortion	2	34
	Balance (100 Type) Test Line	2	34
	Bit	2	34
	Business Day	2	34
	Busy Hour Minutes of Capacity	2	34
	Call	2	35
	Carrier or Common Carrier	2	35
	CCS	2	35
	Central Office	2	35
	Central Office Prefix	2	35
	Centralized Automatic Reporting on Trunks Testing	2	35
	Circuit(s)	2	35
	Channel Service Unit	2	36

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>SECTION</u>	<u>SHEET NO.</u>	
2.	<u>GENERAL REGULATIONS</u> (Cont'd)		
2.6	<u>Definitions</u> (Cont'd)		
	Channelize	2	36
	C-Message Noise	2	36
	C-Notched Noise	2	36
	Coin Station	2	36
	Common Line	2	37
	Communications System	2	37
	Customer(s)	2	37
	Data Transmission (107 Type) Test Line	2	37
	Decibel	2	37
	Decibel Reference Noise C-Message Weighting	2	38
	Decibel Reference Noise C-Message Referenced to 0	2	38
	Dual Tone Multifrequency Address Signaling	2	38
	Echo Control	2	38
	Echo Path Loops	2	38
	Echo Return Loss	2	38
	Effective 2-Wire	2	39
	Effective 4-Wire	2	39
	End Office Switch	2	39
	End User	2	39
	Entry Switch	2	40
	Envelope Delay Distortion	2	40
	Equal Level Echo Path Loss	2	40
	Exchange	2	40
	Expected Measured Loss	2	40
	Extended Area Service	2	41
	Field Identifier	2	41
	First Come - First Served	2	41
	First Point of Switching	2	41
	Foreign Exchange Service	2	41 (N)
	Frequency Shift	2	41
	Grandfathered	2	42
	Host Office	2	42

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TABLE OF CONTENTS (Cont'd)

	<u>SECTION</u>	<u>SHEET NO.</u>	
2.	<u>GENERAL REGULATIONS</u> (Cont'd)		
2.6	<u>Definitions</u> (Cont'd)		
	Immediately Available Funds	2	42
	Impedance Balance	2	42
	Impulse Noise	2	42
	Individual Case Basis	2	43
	Inserted Connection Loss	2	43
	Interexchange Carrier (IC) or Interexchange Common Carrier	2	43
	Intermodulation Distortion	2	43
	Interstate Communications	2	43
	Intrastate Communications	2	43
	Line Side Connection	2	44
	Local Access and Transport Area	2	44
	Loop Around Test Line	2	44
	Loss Deviation	2	44
	Message	2	44
	Milliwatt (102 Type) Test Line	2	44
	Network Control Signaling	2	45
	Nonsynchronous Test Line	2	45
	North American Numbering Plan	2	45
	Off-hook	2	45
	On-hook	2	45
	Open Circuit Test Line	2	45
	Originating Direction	2	46
	Pay Telephone	2	46
	Phase Jitter	2	46
	Point of Termination	2	46
	Premises	2	46
	Query	2	46 (N)
	Remote Switching Modules and/or Remote Switching Systems	2	46
	Return Loss	2	46
	Registered Equipment	2	47
	Serving Wire Center	2	47

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ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>SECTION</u>	<u>SHEET NO.</u>	
2.	<u>GENERAL REGULATIONS (Cont'd)</u>		
2.6	<u>Definitions (Cont'd)</u>		
	Service Management System	2	47
	Service Switching Point	2	47
	Seven Digit Manual Test Line	2	47
	Shortage of Facilities or Equipment	2	47
	Short Circuit Test Line	2	47
	Signal-To-C-Notched Noise Ratio	2	47.1 (N)
	Singing Return Loss	2	47.1 (N)
	Subtending End Office of Access Tandem	2	48
	Synchronous Test Line	2	48
	Terminating Direction	2	48
	Transmission Measuring (105 Type)	2	48
	Test Line/Responder	2	48
	Transmission Path	2	48
	Trunk	2	48
	Trunk Group	2	48
	Trunk Side Connection	2	49
	Two-Wire to Four-Wire Conversion	2	49
	Uniform Service Order Code	2	49
	V and H Coordinates Method	2	49
	WATS Serving Office	2	49
	Wire Center	2	49
3.	<u>CARRIER COMMON LINE ACCESS SERVICE</u>	3	1
3.1	<u>General Description</u>	3	1
3.2	<u>Limitations</u>	3	2
3.3	<u>Undertaking of the Telephone Company</u>	3	3
3.4	<u>Obligations of the Customer</u>	3	4
3.5	<u>Payment Arrangements</u>	3	7
3.6	<u>Payment of Coin Sent-Paid Monies</u>	3	9
3.7	<u>Rate Regulations</u>	3	11
3.8	<u>Rates and Charges</u>	3	19
4.	<u>RESERVED FOR FUTURE USE</u>	4	1

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ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>SECTION</u>	<u>SHEET NO.</u>
5. <u>ORDERING SWITCHED AND SPECIAL ACCESS SERVICE</u>	5	1
5.1 <u>Access Service Request Requirements</u>	5	1
5.1.1 General	5	1
5.1.2 Switched Access Ordering Requirements	5	2
5.1.3 Special Access Service	5	6
5.1.4 Combined Access Service Arrangements	5	6
5.1.5 Equal Access Conversions	5	7
5.1.6 Provisions of Other Services	5	8
5.1.7 Access Order Service Date Intervals	5	8
5.1.8 Selection of Facilities for Access Order	5	9
5.1.9 Shared Use Facilities	5	9
5.2 <u>Access Services Provided by More Than One Telephone Company</u>	5	10
5.3 <u>Access Order Charges</u>	5	12
5.3.1 Access Service Request Modifications	5	12
5.3.2 Cancellation of an Access Service Request	5	16
5.3.3 Minimum Period Charges	5	18
6. <u>SWITCHED ACCESS SERVICE</u>	6	1
6.1 <u>General</u>	6	1
6.1.1 Service Arrangements	6	1
6.1.2 Technical Specifications	6	2
6.1.3 Optional Features	6	2

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ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

		<u>SECTION</u>	<u>SHEET NO.</u>	
6.	<u>SWITCHED ACCESS SERVICE</u> (Cont'd)			
6.1	<u>General</u>	6	1	(T)
6.2	<u>Language Exceptions</u>	6	1	(T)
				(D)

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TABLE OF CONTENTS (Cont'd)

<u>SECTION</u>	<u>SHEET NO.</u>
<u>RESERVED FRO FUTURE USE</u>	

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ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>SECTION</u>	<u>SHEET NO.</u>
7.	<u>SPECIAL ACCESS SERVICE</u>	7 1
7.1	<u>Provision of Special Access Service</u>	7 1
7.1.1	Circuit Types	7 1
7.1.2	Service Configurations	7 3
7.1.3	Technical Specifications Package	7 6
7.1.4	Channel Interfaces	7 8
7.1.5	Alternate Use	7 8
7.1.6	Special Facilities Routing	7 8
7.1.7	Design Layout Report	7 9
7.1.8	Acceptance Testing	7 9
7.2	<u>Rate Categories, Applications and Regulations</u>	7 10
7.2.1	Rate Categories	7 10
7.2.2	Minimum Periods	7 16
7.2.3	Application of Daily and Monthly Rates	7 16
7.2.4	Facility Hubs and Multiplexing	7 17
7.2.5	Shared Use Digital High Capacity Service	7 19
7.3.	<u>Voice Grade Service</u>	7 21
7.3.1	Basic Circuit Description	7 21
7.3.2	Technical Specifications Package	7 22
7.3.3	Channel Interfaces	7 23
7.3.4	Optional Features and Functions	7 23
7.3.5	Rates and Charges	7 29
7.4.	<u>Program Audio Service</u>	7 34
7.4.1	Basic Circuit Description	7 34
7.4.2	Technical Specifications Packages	7 34
7.4.3	Channel Interfaces	7 35
7.4.4	Optional Features and Functions	7 35
7.4.5	Rates and Charges	7 36

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ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>SECTION</u>	<u>SHEET NO.</u>
7.	<u>SPECIAL ACCESS SERVICE (Cont'd)</u>	7
7.5	<u>Video Service</u>	7 39
7.5.1	Basic Circuit Description	7 39
7.5.2	Technical Specifications Packages	7 39
7.5.3	Channel Interfaces	7 40
7.5.4	Rates and Charges	7 42
7.6	<u>Digital Data Service</u>	7 44
7.6.1	Basic Circuit Description	7 44
7.6.2	Technical Specifications Package	7 44
7.6.3	Channel Interfaces	7 45
7.6.4	Optional Features and Functions	7 45
7.6.5	Rates and Charges	7 46
7.7	<u>High Capacity Service</u>	7 49
7.7.1	Basic Circuit Description	7 49
7.7.2	Technical Specifications Package	7 49
7.7.3	Channel Interfaces	7 50
7.7.4	Optional Features and Functions	7 50
7.7.5	Rates and Charges	7 53
7.8	<u>Individual Case Filing</u>	7 57
8.	<u>MISCELLANEOUS SERVICES</u>	8 1
8.1.	<u>Additional Engineering</u>	8 1
8.1.1	Charges for Additional Engineering	8 2

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ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>SECTION</u>	<u>SHEET NO.</u>	
8.	<u>MISCELLANEOUS SERVICES (Cont'd)</u>	8	
8.2	<u>Additional Labor</u>	8	3
8.2.1	Overtime Installation	8	3
8.2.2	Overtime Repair	8	3
8.2.3	Stand By	8	3
8.2.4	Maintenance with Other Telephone Companies	8	3
8.2.5	Other Labor	8	3
8.2.6	Charges for Additional Labor	8	4
8.3	<u>Maintenance of Service</u>	8	5
8.4	<u>Additional Testing</u>	8	6
8.5	<u>Presubscription</u>	8	9
8.6	<u>Restoration Priority</u>	8	13
8.7	<u>Standard Jacks - Registration Program</u>	8	14
8.8	Frame Relay Service	8	15 (N)
9.	<u>INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL CODES</u>	9	1
9.1	<u>Local Transport Interface Groups</u>	9	1
9.1.1	Interface Group 1	9	2
9.1.2	Interface Group 2	9	3
9.1.3	Interface Group 3	9	3
9.1.4	Interface Group 4	9	4
9.1.5	Interface Group 5	9	4
9.1.6	Interface Group 6	9	5
9.1.7	Interface Group 7	9	5
9.1.8	Interface Group 8	9	6
9.1.9	Interface Group 9	9	6
9.1.10	Interface Group 10	9	7
9.1.11	Available Premises Interface Codes	9	7

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>SECTION</u>	<u>SHEET NO.</u>
9. <u>INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL CODES (Cont'd)</u>	9	
9.2 <u>Transmission Specifications for Switched Access Service</u>	9	11
9.2.1 Standard Transmission Specifications	9	11
9.2.2 Data Transmission Parameters	9	18
9.3 <u>Channel Interface and Network Channel Codes</u>	9	21
9.3.1 Glossary of Channel Interface Codes and Options	9	22
9.3.2 Impedance	9	27
9.3.3 Digital Hierarchy Channel Interface Codes	9	28
9.3.4 Service Designator/Network Channel Code Conversion Table	9	29
9.3.5 Compatible Channel Interfaces	9	31
10. <u>SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES</u>	10	1
10.1 <u>General</u>	10	1
10.2 <u>Emergency Conditions</u>	10	2
10.3 <u>Intervals to Provide Service</u>	10	3
10.4 <u>Safeguarding of Service</u>	10	3
10.4.1 Facility Availability	10	3
10.5 <u>Federal Government Regulations</u>	10	3
10.6 <u>Service Offerings to the Federal Government</u>	10	4
10.6.1 Type and Description	10	4
10.6.2 Mileage Application	10	7
10.6.3 Rates and Charges	10	8

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ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>SECTION</u>	<u>SHEET NO.</u>
11. <u>SPECIAL FACILITIES ROUTING OF ACCESS SERVICES</u>	11	1
11.1 Description of Special Facilities <u>Routing of Access Services</u>	11	1
11.1.1 Diversity	11	1
11.1.2 Avoidance	11	1
11.1.3 Cable-Only Facilities	11	1
11.2 Rates and Charges for Special Facilities <u>Routing of Access Service</u>	11	2
11.2.1 Diversity	11	2
11.2.2 Avoidance	11	2
11.2.3 Diversity and Avoidance Combined	11	3
11.2.4 Cable-Only Facilities	11	3
12. <u>SPECIALIZED SERVICE OR ARRANGEMENTS</u>	12	1
12.1 General	12	1
12.2 Rates and Charges	12	1
13. <u>EXCEPTIONS TO ACCESS SERVICE OFFERINGS</u>	13	1
14. <u>SPECIAL CONSTRUCTION</u>	14	1
14.1 <u>Application of Tariff</u>	14	1
14.2 <u>Regulations</u>	14	1
14.2.1 Filing of Charges	14	1
14.2.2 Ownership of Facilities	14	1
14.2.3 Interval to Provide Facilities	14	1
14.2.4 Special Construction Involving Both Interstate and Intrastate Facilities	14	2
14.2.5 Payments for Special Construction	14	2
14.2.6 Liabilities and Charges for Special Construction	14	3

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ACCESS SERVICE

<u>TABLE OF CONTENTS (Cont'd)</u>		<u>SECTION</u>	<u>SHEET NO.</u>	
14.	<u>SPECIAL CONSTRUCTION (Cont'd)</u>	14		
14.2	<u>Regulations</u>	14		
14.2.7	Deferral of Start of Service	14	10	
14.2.8	Definitions	14	12	
14.3	<u>Charges to Provide Permanent Facilities</u>	14	14	
15.	<u>RATES AND CHARGES</u>	15	1	
15.1	<u>Carrier Common Line Access Service</u>	15	1	
15.2	<u>Access Service Request Modification</u>	15	2	(Z)
15.3	<u>Switched Access Rates and Charges</u>	15	4	(T)
15.4	<u>Special Access Voice Grade Service</u>	15	6	(Z)
15.5	<u>Special Access Program Audio Service</u>	15	11	
15.6	<u>Special Access Video Service</u>	15	14	
15.7	<u>Special Access Digital Data Service</u>	15	16	
15.8	<u>Special Access High Capacity Service</u>	15	19	
15.9	<u>Additional Engineering</u>	15	23	
15.10	<u>Additional Labor</u>	15	24	
15.11	<u>Additional Testing</u>	15	25	
15.12	<u>Presubscription Charge</u>	15	26	
15.13	<u>Telecommunications Service Priority</u>	15	27	
15.14	<u>Individual Case Filing</u>	15	28	
15.15	<u>Advanced Data Applications - Frame Relay Service</u>	15	28	
16.	<u>Arizona Universal Service Fund</u>	16	1	(Z)

ACCESS SERVICE

CONCURRING CARRIERS

No Concurring Carriers

CONNECTING CARRIERS

No Connecting Carriers

OTHER PARTICIPATING CARRIERS

No Other Participating Carriers

REGISTERED SERVICE MARKS

None

REGISTERED TRADEMARKS

None

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ACCESS SERVICE

EXPLANATION OF SYMBOLS

- (C) - to signify changes regulation.
- (D) - to signify a discontinued rate or regulation.
- (I) - to signify increase.
- (M) - 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 0
- dBv - Decibel(s) Relative to 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 Measure Loss
- EPL - Echo Path Loss
- ERL - Echo Return Loss
- ESS - Electronic Switching System
- ESSX - Electronic Switching System Exchange
- f - frequency

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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 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
USOC	-	Uniform Service Order Code
VG	-	Voice Grade
V & H-		Vertical & Horizontal
WA	-	Wideband Analog
WATS	-	Wide Area Telecommunications Service(s)
WD	-	Wideband Data

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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, NJ 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

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REFERENCE TO TECHNICAL PUBLICATIONS (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
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DECISION #: 56807

TELEPHONE TARIFF
Citizens Utilities Company
Citizens Utilities Rural Co., Inc.
Mohave County, Arizona

TARIFF PART: Reference Pages
Original Sheet No. 21
CANCELLING:

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., Director - Tariff and Regulatory Matters, 100 South 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.

National Exchange Carriers Association
Tariff FCC No. 4

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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 the Issuing Carriers of this tariff, 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.
 - 1.3 This tariff does not apply to intraexchange services provided by the Telephone Company to customers within its certified service area. Such services will be provided under its local Telephone Services Tariff.

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ACCESS SERVICE

2. General Regulations

2.1 Undertaking of the Telephone Company

2.1.1 Scope

- (A) The Telephone Company does not undertake to transmit messages under this tariff.
- (B) The Telephone Company shall be responsible only for the installation, operation and maintenance of the service it provides.
- (C) The Telephone Company will, for maintenance purposes, test its services only to the extent necessary to detect and/or clear troubles.
- (D) Services are provided 24 hours daily, seven days per week, except as set forth in other applicable sections of this tariff.
- (E) The Telephone Company does not warrant that its facilities and service 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 not interruption of use or relocations 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 assume all outstanding indebtedness for such services, and the unexpired portion of the minimum period and the termination liability applicable to such service; if any; or

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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 acknowledgement of the Telephone Company is required prior to such assignment or transfer which acknowledgement shall be made within 15 days from the receipt of notifications. 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 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 5.1.5(A) following.

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DECISION #: 56807

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 the 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 provided 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 service 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.

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IN COMPLIANCE WITH
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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 service 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.

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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 6. and 7.2.1(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.

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,
 - (3) and substitution of metallic facilities for carrier or derived facilities used to provide other than metallic facilities;
 - (4) and 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 6., 7. and 9. following. The Telephone Company shall not be responsible if any such substitution, change or rearrangement renders any customer furnished service 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 modification procedures.

(T)

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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 Service, 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 non-complying customer; and/or
- (b) Discontinue the provision of the service 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 (3) 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 refusal additional applications for service to the non-complying customer without further notice.

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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 Publications 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 rearrangements, 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).

2.1.13 Special Fees, Taxes, Charges

Insofar as practicable, any sales, use, privilege, excise, franchise or occupation tax, costs of furnishing service without charge or similar taxes or impositions now or hereafter levied by the Federal, State, or Local government or any political subdivision or taxing authority thereof may be billed by the Company to its customers on a pro rata basis in the areas wherein such taxes, impositions or other charges shall be levied against the Company.

(N)
|
(N)

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 discontinuance 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 or abusive purpose. If the Telephone Company finds the service used in such manner, service may be terminated as in 2.1.8 preceding.

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 damage 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.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer

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 at 75 baud or less.

2.3.6 Design of Customer Services

Subject to the provision 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.

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 suit, 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 limitations, /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 service 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.

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KENNETH MASON

VICE PRESIDENT GOVERNMENT & REGULATORY AFFAIRS

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Coordinations 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 and 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.

2.3.11 Identification and Rating of VoIP-PSTN Traffic¹

(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. 14.

(M)

(N)

(N)

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)

(N)

(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.

(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.

(N)

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)

(N)

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

- (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).
- (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.

(N)

ACCESS SERVICE

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

(A) Deposits

(T)

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 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.

(M)

(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. 13.

(N)

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)
- (1) 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.
- (2) For 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.
- (3) 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:

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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)
- (3) (Cont'd)

If such payment date falls on Sunday or on a Holiday which is observed on 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)(3) 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 later 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.

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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 changes 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 furnished 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 payment withheld pending resolution of the dispute shall be subject to the late payment penalty as set forth in (C) preceding.
- (4) If the 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 payment date 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.

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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 lessor 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 fractions 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).

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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) Provisions 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. Additional copies of the customer's bill may be provided in standard paper format at the rates and charges set forth in (3) following.

(3) Additional copies of the customers' monthly bill or service and features record in standard paper format, per page	<u>Rate</u> 0.10
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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 5.3.2 following.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruption

(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 6. following. An interruption period starts when an inoperative service is reported to, or discovered by, the Telephone Company designated trouble report 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.

In case of an interruption to any service, allowance for the period of interruption, if not due to the negligences 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.

(T)

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 charge 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 termination, 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).

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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.

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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, HCI), 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.

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 constructions, as set forth in Section 14, 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

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 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 1/440 of the monthly rate for each period of 30 minutes or fraction thereof that the service is surrendered. In no case will the credit allowance exceed the monthly rate for the service surrendered in any one monthly billing period.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) Nonrecurring Charge Do Not Apply

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

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

(B) Nonrecurring Charges Apply

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

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.

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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 5.2(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 (3) days' notice in the event that the billing method is changed.

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
- (B) Multiple Company Billing (Cont'd)
 - (2) For Switched Access Services, the Telephone Company will determine the applicable charges as follows:
 - (a) For Intrastate Interlata Services, determine the distance in airline miles using the V&H method set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF FCC NO. 4, between the Telephone Company's end office switch and the customer's serving wire center.
 - (b) For Intrastate Intralata Services, determine the distance in airline miles using the V&H method set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF FCC NO. 4, between the Telephone Company's end office switch and the Meet Point with the U.S. West access tandem switch in Phoenix, AZ.
 - (c) (Reserved for future use)
 - (d) The total Local Transport charge shall be the Local Transport Facility Mileage rate 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.
 - (e) All other appropriate recurring and nonrecurring charges in each Telephone Company's access tariff are applicable.

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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) For Intrastate InterLata Services, determine the distance in airline miles using the V&H method set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF NO. 4 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) For Intrastate IntraLata Services, determine the distance in airline miles using the V&H method set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF FCC NO. 4, between the Telephone Company's end office switch and the Meet Point with the U.S. West access tandem switch in Phoenix, AZ.
- (c) The airline distance in miles developed in (a) and (b) 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 will be developed based on methodology described in the NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF FCC NO. 5.
- (d) The total Circuit Mileage charges shall be the Circuit Mileage Per-Mile charge determined in (b) preceding plus the Circuit Mileage-Fixed charge.
- (e) All other appropriate recurring and nonrecurring charges in each Telephone Company's access tariff are applicable.

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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

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,

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

- The telephone companies involved do not bill Switched Access charges in accordance with the Multiple Company Billing Arrangement for subtending end office 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 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. following. 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. (T)

(2) For FGB, 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 End Office and Local Transport Circuit Connection Rates as set forth in 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. (T)

(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 charge.

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 communication 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 configurations of the access area a customer obtains is dependent upon the Feature Group type and the specific characteristics of the Central Office or Access Tandem Network in which the connection is made.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Access Code

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

Access Minutes

The term "Access Minutes" denotes that usage of exchange facilities in intrastate service for the purpose of calculating chargeable usage. On the originating end of an intrastate 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 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 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 office 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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Area of Service

The term "Area of Service" (AOS) routing denotes the ability to ensure that 800 calls originate from subscribed service areas.

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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 time of day that a company is open for business. Generally, in the business community, these are 8:00 or 9:00 A.M. to 5:00 or 6:00 P.M. respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week. However, Business Day hours for the Telephone Company may vary based on company policy, union contract and location. To determine such hours for an individual company, or company location, 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.

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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 digits telephone number assigned to a customer's Telephone Exchange Service when dialed on a local basis.

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.

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 high speed channels into narrow bandwidth 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.

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 of 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.

Customer Designated Premises (CDP)

A CDP may be designated by the customer for Switched Access, Special Access, or both in combination. When a customer orders Special Access to connect to a Telephone Company Switch, that switch is a CDP where the Special Access Service Terminates. Customer transmission facilities and equipment terminated in Telephone Company central offices under EIS arrangements, as defined in Frontier Telephone Companies Tariff FCC No. 1, Section 16 are not considered a CDP. However, Telephone Company Special Access Services may be interconnected to such customer equipment using a Cross Connect arrangement.

Data Transmission (107 Type) Test Line

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

Decibel

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

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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 and 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 or 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.

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.

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" denote any customer of intrastate 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.

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 is 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 communication service within the area. One or more designated exchanges comprise a given local access and transport area.

Expected Measure 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 connected loss and test access loss including any test pads.

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 order 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.

Foreign Exchange Service

Exchange service furnished a customer from an exchange area other than that exchange from which the customer's local service would normally be furnished. Service is provided as Feature Group A/FX Service in this Tariff.

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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 band wire transfers, U.S. Federal Reserve notes (paper cash), U.S. coins, U.S. Postal Money Orders and New York Certificates of Deposits.

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 specifications.

Impulse Noise

The term "Impulse Noise" denotes any monetary 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.

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 H2 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, associations, joint stock company, trust, governmental entity or corporation engaged for hire in intrastate communications by wire or radio, between two or more exchanges.

Intermodulation Distortion

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

Interstate Communications

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

Intrastate Communications

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Line Side Connections

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 the 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.

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 systems 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 reorder 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.

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.

Query

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

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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.

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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.

Service Management System

The term "Service Management System" (SMS) denotes the primary 800 service system that interfaces between the regional SCPs and 800 service providers order entry centers and/or systems. The primary function of the SMS is to administer 800 records in the SCPs that involve service provisioning, maintenance network administration and management.

Service Switching Point

The term "Service Switching Point" (SSP) denotes a switch which recognizes 800 calls and suspends them in order to query the 800 Service Control Point (SCP) for routing instructions for the 800 call.

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.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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.

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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 tests of supervisory and ring-tripping functions.

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.

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 path are interchangeable.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Trunk Side Connection

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

Two-Wire to Four-Wire Conversion

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

Uniform Service Order Code

The term "Uniform Service Order Code" denotes a three or five character alphabetic, 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

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

WATS Service Office

The term "WATS Serving Office" denotes a Telephone Company switching office capable of performing the optional screen 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.

ACCESS SERVICE

TELEPHONE SERVICES TARIFF

RULES AND REGULATIONS

3.1 General

- 3.1.1 The rules and regulations specified herein are in addition to the most current version of the State of Arizona Administrative Rules and Regulations, Article 5, Telephone Utilities adopted by the Arizona Corporation Commission and those contained in the Local Exchange Service Tariffs, the Intrastate Access Service Tariffs and the Message Toll Telephone Service Tariffs. These rules and regulations apply to the intrastate services and facilities furnished by Citizens Utilities Rural Company, Inc. and Citizens Utilities Company (hereinafter jointly the "Company"). Failure on the part of the customers to observe the rules and regulations, after due notice (where necessary) of such failure, automatically gives the Company the right to discontinue the furnishing of service. (T)
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- 3.1.2 In the event of a conflict between any rate, rule, regulation or provision contained in these rules and regulations and any rate, rule, regulation or provision contained in the Local Exchange Service Tariffs, the Intrastate Access Service Tariffs or the Message Toll Telephone Service Tariffs, the rate, rule, regulation or provision contained in the specific tariffs shall prevail. (T)
- 3.2.3 These rules and regulations cancel and supersede all other rules and regulations of the Company issued and effective prior to the effective dates of these Tariffs.

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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) Directory 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 service 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 6 are used.

(T)

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ACCESS SERVICE

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

3.3 Undertaking of the Telephone Company 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.

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 Telephone 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.

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.

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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 usage 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 or 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.

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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 lessor of:

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, which date is the later date. The disputed amount penalty shall be the disputed amount resolved in the customer's favor times a penalty factor.

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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 Section 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.

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.

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 Carrier Common Line Access 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.

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 Carrier Common Line 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 Carrier Common Line Charges. These assumed access minutes are as set forth in Section 6 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:

(T)

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.

ACCESS SERVICE

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

3.7 Rates 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.

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 and/or terminates at end offices that have not been converted to equal access the 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 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 minute less the reported resold outward MTD 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 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.

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, the rate per minute charge 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 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 as set forth in 3.7(D) preceding; but not less than zero.

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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 Charges will be billed only to intrastate Switched Access Service access minutes based on the data reported by the customer as set forth in 2.3.10 preceding. The intrastate Switched Access Service access minutes wil, 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.
- (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:

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 Switched Access Service subject to Carrier Common Line charges will be multiplied by the Access per minutes rate as set forth in 3.8 following to determine the charges.
- (2) 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.
- (3) The terminating 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 signalling is forwarded by the customer's equipment when the called party answers.
- (4) 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 signalling is forwarded by the customer's equipment when the called party answers.

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ACCESS SERVICE

- 3. Carrier Common Line Access Service (Cont'd)
- 3.8 Rates and Charges (See Section 15, Part 15.1 Sheet No. 1)

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ACCESS SERVICE

5. 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.

5.1 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 6. following, and Special Access Service as set forth in 7. 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 5.1.1, 5.1.2, and 5.1.3 following.

5.1.1 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 service 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 5.1.2 and 5.1.3 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.

ACCESS SERVICE

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

5.1 Access Service Request Requirements (Cont'd)

5.1.2 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 5.1.2(A) following. Line side ordering regulations are as set forth in 5.1.2(B) following.

(A) Trunk Side Access Services

Feature Groups B, C, D and 800 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 Access Service Trunks are provided only at Telephone Company designated switches capable of performing the customer identification function for 800 service. When direct routing of 800 Access Service traffic via 800 Access Service trunks is desired, or when the customer's 800 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 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.

ACCESS SERVICE

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

5.1 Access Service Request Requirements (Cont'd)

5.1.2 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 DDD.

When a customer orders Feature Group B, C, or D or 800 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, and D or 800 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 6. 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.

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EFFECTIVE DATE: July 1, 2012
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GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

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

5.1 Access Service Request Requirements (Cont'd)

5.1.2 Switched Access Ordering Requirements (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 DDD. When ordering, the customer must specify each capacity in BHMC's.

(3) 800 NXX Code Activation/Deactivation

800 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 800 NXX codes to be activated or deactivated in a Telephone Company jurisdiction.

When a customer's 800 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 800 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.

ACCESS SERVICE

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

5.1 Access Service Request Requirements (Cont'd)

5.1.2 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 in 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 provide 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 as set forth in 6. following or allowed to extend beyond the FGA Access area. When Feature Group A traffic is terminated beyond the Access Area, the rates for Switched Access as set forth in 6. following, will apply.

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ACCESS SERVICE

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

5.1 Access Service Request Requirements (Cont'd)

5.1.3 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 specifications package and options desired. For multi-point services, the channel interface at each premises may, at the request of the customer, be different but all such interfaces shall be compatible.

5.1.4 Combined Access Service Arrangements

The Combined Access Service Arrangement optional feature, as set forth in 6. 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.

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.

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DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACCESS SERVICE

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

5.1 Access Service Request Requirements (Cont'd)

5.1.5 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 as described in 8.5 following.

Customers may request existing FGA or FGB services be converted to FGD upon the conversion of an office or equal access. Changes in Feature Group types are provided as set forth in 6. following.

(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.

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ACCESS SERVICE

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

5.1 Access Service Request Requirements (Cont'd)

5.1.6 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 5.3.1(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 8.1 following and are in addition to the regulations, rates and charges, specified in this section.

5.1.7 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 5.1 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.

ACCESS SERVICE

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

5.1 Access Service Request Requirements (Cont'd)

5.1.7 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 8.2 following.

5.1.8 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 11. following.

5.1.9 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.

ACCESS SERVICE

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

5.2 Access Service Provided by More than One Telephone Company (Cont'd)

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 Billing arrangement, as set forth in (B) following, will be used for all FGC, FGD, and 800 Access Switched Access Service 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 5.1 preceding to any other Telephone Company involved in providing the service.

ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)
- 5.2 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 Services (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.

ACCESS SERVICE

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

5.3 Access Order Charges

5.3.1 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 during assigned to complete such an order within normal business hours. If the modifications 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:

- (a) The original order will be cancelled by the Telephone Company, and reissued with appropriate cancellation charges applied, or
- (b) the billing will commence for the services ordered on the original ASR.

ACCESS SERVICE

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

5.3 Access Order Charges (Cont'd)

5.3.1 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 for Service Date Change is shown in Section 15, Part 15.2(A).

(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 5.3.2(C) following will apply.

ACCESS SERVICE

- 5. Ordering Switched and Special Access Service (Cont'd)
- 5.3 Access Order Charges (Cont'd)
- 5.3.1 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 for Design Change is shown in Section 15, Part 15.2(B).

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

ACCESS SERVICE

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

5.3 Access Order Charges (Cont'd)

5.3.1 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. A customer may also request an earlier service date interval. A customer may also request an earlier service date on a pending Access Service Request. If the Telephone Company determines that service can be provided on the requested date and that additional labor cost or extraordinary costs are required to meet the requested service date, the customer will be notified and will be provided with an estimate of the additional charges involved. Actual charges assessed may not exceed the estimate by more than 10%. Such additional charges will be determined and billed to the customer as follows:

To calculate the additional labor charges, the Telephone Company will, upon authorization from the customer to incur the additional labor charges, keep track of the additional labor hours used to meet the request of the customer and will bill the customer at the applicable Additional Labor charges as set forth in 8.2 following.

To develop, determine and bill customer the extraordinary costs which may be involved, the special construction terms and conditions as set forth in Section 14 will be used by the Telephone Company. Authorization to incur the costs and to bill the customer will be in accordance with the terms and conditions of Section 14.

When the request for expediting occurs subsequent to the issuance of the Access Service Request, a Service Date Change Charge as set forth in (A) preceding also applies.

ACCESS SERVICE

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

5.3 Access Order Charges (Cont'd)

5.3.2 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.

ACCESS SERVICE

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

5.3 Access Order Charges (Cont'd)

5.3.2 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 5.3.3 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 nonrecoverable 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 Company incurs any costs associated with such installation or order processing.

ACCESS SERVICE

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

5.3 Access Order Charges (Cont'd)

5.3.3 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, as covered under 2.4.2 proceeding. 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 6. following.

For Special Access Service, the charge for a month or fraction thereof is the applicable monthly rates for the service as set forth in 7.2.3 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 7.2.3 following.

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ACCESS SERVICE

6. Switched Access Service

6.1 General

The Telephone Company adopts Section 6 and the associated rates in Section 20 of Frontier Telephone Companies Tariff FCC No. 1 (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 and in Section 15.3.

6.2 Language Exceptions

(None)

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(N)

(D)

(D)

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EFFECTIVE DATE: July 1, 2012
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DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
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(D)

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DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
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DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
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(T)

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DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
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ACCESS SERVICE

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(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
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ACC TARIFF APPROVAL

ACCESS SERVICE

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(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
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(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

SECTION BELOW RESERVED FOR
ACC TARIFF APPROVAL

ACCESS SERVICE

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(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

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(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

SECTION BELOW RESERVED FOR
ACC TARIFF APPROVAL

ACCESS SERVICE

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(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

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(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

6. Reserved For Future Use

(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
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ACC TARIFF APPROVAL

ACCESS SERVICE

6. Reserved For Future Use

(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

6. Reserved For Future Use

(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
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ACC TARIFF APPROVAL

ACCESS SERVICE

6. Reserved For Future Use

(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

6. Reserved For Future Use

(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

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(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

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(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

6. Reserved For Future Use

(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

SECTION BELOW RESERVED FOR
ACC TARIFF APPROVAL

ACCESS SERVICE

6. Reserved For Future Use

(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

6. Reserved For Future Use

(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

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(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

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ACC TARIFF APPROVAL

ACCESS SERVICE

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(T)

(D)

(D)

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(D)

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(D)

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6. Switched Access Service (Cont'd)

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(D)

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(D)

(D)

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(D)

(D)

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ACCESS SERVICE

7. Special Access Service

7.1 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.

7.1.1 Circuit Types

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

- Voice Grade (VG)
- Program Audio (AP)
- Video (TV)
- 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.

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

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 Provision of Special Access Service (Cont'd)

7.1.1 Circuit Types (Cont'd)

Each of the five 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 pre-defined), 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 8.1 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 Provision of Special Access Service (Cont'd)

7.1.2 Service Configurations

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

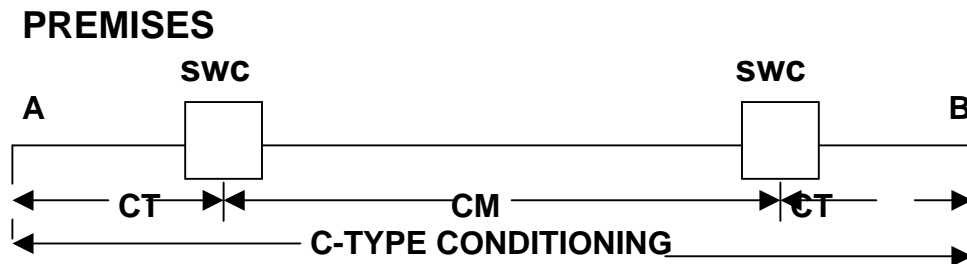
(A) Two-Point Service

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 connection with Switched Access as set forth in Section 6 for Combined Access Service Arrangements. All types of Special Access Service may be provided as two-point service.

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

PREMISES



- 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.

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.1 Provision of Special Access Service (Cont'd)
- 7.1.2 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 Description for the appropriate circuit.

The circuit between hubs on a multipoint service is a mid-link. There is not limitation on the number of mid-links, but the use of more than three mid-links in tandem may degrade the quality of multipoint facilities.

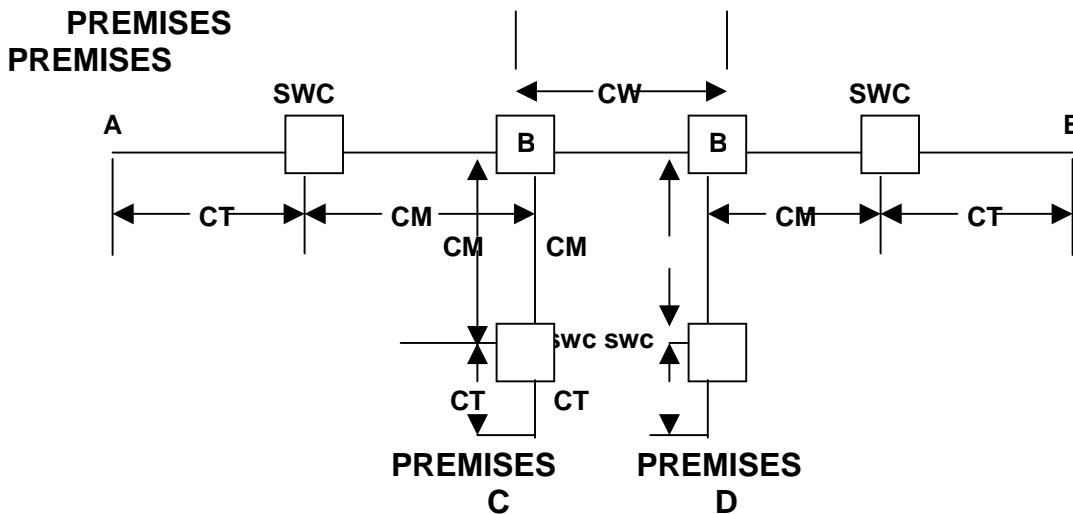
Multipoint service utilizing a customized technical specifications package, as set forth in 7.1.3, will be provided when technically possible.

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

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.1 Provision of Special Access Service (Cont'd)
- 7.1.2 Service Configurations (Contend)
- (8) 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 (4 applicable)
- Circuit Mileage (5 sections fixed-rate plus rate per mile between SWC)
- Bridging Optional features (6 applicable, i.e., each bridge port)

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

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ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.1 Provision of Special Access Service (Cont'd)
- 7.1.3 Technical Specifications Package

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 7.3 through 7.7 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:

Voice Grade	PUB	TR-NPL-000335
	PUB	41004, Table 4
Program Audio	PUB	62503 and associated Addendum
Video	PUB	62504 and associated Addendum
Digital Data	PUB	62507
	PUB	62310
High Capacity	PUB	64508
		62411

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ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.1 Provision of Special Access Service (Cont'd)
- 7.1.3 Technical Specifications Packages (Cont'd)

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards listed in this provision 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.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 Provision of Special Access Service (Cont'd)

7.1.4 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 9. following, in a combination format.

Only certain channel interface combination are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in 7.1.3 preceding. When a customized circuit is requested, all channel interface combinations available with the specified type of service are available with the customized circuit.

7.1.5 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 12., 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]).

7.1.6 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 11. following.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 Provision of Special Access Service (Cont'd)

7.1.7 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.

7.1.8 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 8.4 following, are available at the customer's request. All test results will be made available to the customer upon request.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Categories, Applications and Regulations

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

7.2.1 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 7.2.1(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.

For the avoidance of any doubt when a customer orders Special Access Service to a Telephone Company Switch, that switch is a Customer Designated Premise (CDP) where the Special Access terminates.

(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 6 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.

(N)
|
(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.1 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 service 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 the 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 methodology for mileage calculation and serving wire center V&H coordinates are specified in NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF FCC NO. 4. 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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.1 Rate Categories (Cont'd)

(B) Circuit Mileage (Cont'd)

(2) Per Mile Rate (Cont'd)

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.

(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 7.3 through 7.7 following. Specific rate applications for multiplexing are set forth in 7.2.4 following.

(D) Nonrecurring Charge

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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.1 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 nonrecurring charges apply are:

- Voice Grade Data Capability
- Voice Grade Telephoto Capability
- Program Audio Gain Conditioning
- Program Audio Stereo

(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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.1 Rate Categories (Cont'd)

(D) Nonrecurring Charge (Cont'd)

(4) Service Rearrangements

Special 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 5.3.1 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 date (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 rearrangement 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;

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.1 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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 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.).

7.2.3 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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.4 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, Program Audio, 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, (i.e., 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. The NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF FCC NO. 4 identifies serving wire center, hub locations and the type of multiplexing functions available.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.4 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 day, 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 de-multiplexed. 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 7.4.5 and 7.5.4 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.

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ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.2 Rate Regulations (Cont'd)
- 7.2.5 Shared Use Digital High Capacity Services

Shared use refers to a rate application applicable only when the customer orders High Capacity facilities between a customer designated premises and a Telephone Company hub where the Telephone Company performs multiplexing/de-multiplexing functions and the same customer then orders the derived 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 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 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 6. 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.

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.2 Rate Regulations (Cont'd)
- 7.2.5 Shared Use Digital High Capacity Services (Cont'd)

When Special Access Service is provided utilizing a circuit of the shared use facility to a hub, High Capacity rates and charges will apply for the facility to the hub, as set forth preceding, and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided (e.g., Voice Grade, Telegraph, etc.). The applicable rates and charges will include a 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.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Voice Grade Service

7.3.1 Basic Circuit Description

A Voice Grade Circuit is a circuit, which provides voice frequency transmission capability in the nominal frequency range 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 6 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 7.3.2 and 7.3.4 following.

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7. Special Access Service (Cont'd)

7.3 Voice Grade Service (Cont'd)

7.3.2 Technical Specifications Packages

Parameter	Package VG-												CA	
	C*	1	2	3	4	5	6	7	8	9	10	11		12
Attenuation														
Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X	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	X
Envelope Delay														
Distortion	X						X	X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X	X
Impulse Noise						X	X	X	X	X	X	X	X	X
Intermodulation														
Distortion	X						X	X	X	X	X	X	X	X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain														
Hits, & 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.

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

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Voice Grade Service (Cont'd)

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.

7.3.4 Optional Features and Functions

(1) Central Office Bridging Capability

- (a) Voice Bridging (two-wire or four-wire)
- (b) Data Bridging (two-wire or four-wire)
- (c) Telephoto Bridging (two-wire and four-wire)
- (d) Dataphone Select-A-Station Bridging, with a sequential arrangement ports or addressable arrangement ports
- (e) Telemetry and Alarm Bridging, Split Band-Active Bridging, Passive Bridging, Summation-Active Bridging

(2) Central Office Multiplexing

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

(3) 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 Data Capability may be combined on the same service.

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.3 Voice Grade Service (Cont'd)
- 7.3.4 Optional Features and Functions (Cont'd)
 - (a) 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 envelop delay distortion specifications for C-Type Conditioning are:

Attenuation Distortion (Frequency Response) <u>Relative to 1004 Hz</u>		Envelope Delay <u>Distortion</u>	
<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>	<u>Frequency Range (Hz)</u>	<u>Variation (micro- seconds)</u>
400-2800	-1.0 to +2.0	1000-2600	100
300-3000	-1.0 to +3.0	800-2600	200
3000-3200	-2.0 to +6.0	600-2600	300
		500-2800	600
		500-3000	3000

- (b) Sealing Current
Sealing Current Conditioning is provided to help maintain continuity' on dry metallic loops. It is usually associated with four-wire DA nor NO type channel interfaces.
- (4) 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.
- (5) Improved Return Loss
 - (a) 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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Voice Grade Service (Cont'd)

7.3.4 Optional Features and Functions (Cont'd)

(5) Improved Return Loss (Cont'd)

- (b) 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.

(6) 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 service or multipoint services.

The signal to C-Notched Noise Ratio and intermodulation distortion parameters 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.

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.3 Voice Grade Service (Cont'd)
- 7.3.4 Optional Features and Functions (Cont'd)

- (7) 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:

<u>Attenuation Distortion</u> (1004Hz Reference)		<u>Envelope Delay Distortion</u>	
<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>	<u>Frequency Range (Hz)</u>	<u>Variation (mcs)</u>
500-3000	-0.5 to +1.5	1000-2600	110
300-3200	-1.0 to +2.5	800-2800	180

- (8) Signaling Capability
Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service.
- (9) Selective Signaling Arrangement
An arrangement that permits code selective ringing for up to ten codes on a multipoint service.
- (10) 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 if required to operate the transfer arrangement. A spare circuit, if required, is not included as part of the option.

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.3 Voice Grade Service (Cont'd)
- 7.3.4 Optional Features and Functions (Cont'd)
- (11) 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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Voice Grade Service (Cont'd)

7.3.4 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-													CA
	C	1	2	3	4	5	6	7	8	9	10	11	12	
C-Type Conditioning Central Office	X					X	X	X	X	X	X			
Bridging Capability Central Office	X		X			X	X			X	X	X		
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
- For 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	

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ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.3 Voice Grade Service (Cont'd)
- 7.3.5 Rates and Charges (See Section 15, Part 15.4)

	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
(A)		
Circuit Termination		[See Section 15, Part 15.4(A)]
- Per Point of Termination		
- Two-wire		
- Four-wire		
(B)		
Circuit Mileage		[See Section 15, Part 15.4(B)]
- Fixed		
- Two/Four-wire		
- Per mile		
- Two/Four-wire		

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Voice Grade Service (Cont'd)

7.3.5 Rates and Charges (Cont'd) (See Section 15, Part 15.4)

(C) Optional Features and Functions [See Section 15, Part 15.4(C)]
Rates and charges for the Optional Features and Functions of Voice
Grade Service listed in this section apply to all jurisdictions.

(1) Bridging	[See Section 15, Part 15.4(C)(1)]
	<u>Monthly Rates</u> <u>Nonrecurring Charge</u>

(a) Voice Bridging
- Per port
 - Two-wire

 - Four-wire

(b) Data Bridging
- Per port
 - Two-wire

 - Four-wire

(c) Telephoto Bridging
- Per port
 - Two-wire

 - Four-wire

(d) DATAPHONE Select-A-Station Bridging
Sequential Arrangement Ports
- Per Circuit Connected
 - 2-wire

 - 4-wire

Addressable Arrangement Ports
- Per Circuit Connected
 - 2-wire

 - 4-wire

ACCESS SERVICE

7. Special Access Service (Cont'd)
- 7.3 Voice Grade Service (Cont'd)
- 7.3.5 Rates and Charges (Cont'd) (See Section 15, Part 15.4)
- (C) Optional Features and Functions (Cont'd) [See Section 15 Part 15.4(C)]
- (1) Bridging (Cont'd) [See Section 15, Part 15.4(C)(1)]
- | | <u>Monthly Rates</u> | <u>Nonrecurring Charge</u> |
|--|----------------------|----------------------------|
|--|----------------------|----------------------------|
- (e) Telemetry and Alarm Bridging
- Active Bridging Circuit Connections
 - Per Circuit Connected
 - Split Band
 - Summation
 - Passive Bridging Circuit Connections
 - Per Circuit Connected
- (2) Conditioning [See Section 15, Part 15.4(C)(2)]
- Per Point of Termination
 - C-Type
 - Sealing Current
- (3) Improved Return Loss for Effective Four-wire Transmission [See Section 15, Part 15.4(C)(3)]
- Per point of Termination
 - Two-wire
 - Four-wire
- (4) Customer Specified Receive Level [See Section 15, Part 15.4(C)(4)]
- Per Two-wire Point of Termination

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ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.3 Voice Grade Service (Cont'd)
- 7.3.5 Rates and Charges (Cont'd) (See Section 15, Part 15.4)
- (C) Optional Features and Functions (Cont'd) [See Section 15, Part 15.4(C)]

	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
(5) Multiplexing Voice to Telegraph Grade - Per Arrangement	[See Section 15, Part 15.4(C)(5)]	
(6) Data Capability - Per Point of Termination	[See Section 15, Part 15.4(C)(6)]	
(7) Telephoto Capability - Per Point of Termination	[See Section 15, Part 15.4(C)(7)]	
(8) Signaling Capability - Per Point of Termination - In lieu of ++, substitute appropriate two digit code from following list to specify type of signaling:	[See Section 15, Part 15.4(C)(8)]	

AB, AC, CT, DX, CY, EA, EB, EC, EX,
GO, GS, LA, LB, LC, LO, LR, LS, RV, SF

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Voice Grade Service (Cont'd)

7.3.5 Rates and Charges (Cont'd) (See Section 15, Part 1.4)

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

[See Section 15, Part 15.4(C)]

	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
(9) Selective Signaling Arrangement - Per Arrangement	[See section 15, Part 15.4(C)(9)]	

(10) Transfer Arrangement (Key Activated* or Dial Up**) - Per Four Port Arrangement, including control circuit termination***	[See Section 15, Part 15.4(C)(9)]	
---	-----------------------------------	--

- Per Five Port Arrangement,
including control circuit
termination***

* The key activated control circuit is rated as a Circuit Termination
Circuit Mileage, if applicable.

** The Dial-Up option requires the customer to purchase the Controller
Arrangement from Section 13 following.

*** 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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Program Audio Service

7.4.1 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.

7.4.2 Technical Specifications Packages

<u>Parameters</u>	<u>Package AP-</u>				
	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking	X				
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
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.

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

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Program Audio Service (Cont'd)

7.4.3 Channel Interfaces

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

<u>CI</u>	<u>Bandwidth</u>
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 9. following.

7.4.4 Optional Features and Functions

- (1) Central Office Bridging Capability
 Distribution Amplifier
- (2) Gain Conditioning
 Control of 1004 Hz AML at initiation of service to $\text{OdB} \pm 0.5 \text{ dB}$.
- (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-			
<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Bridging Capability	X	X	X	X
Gain Conditioning	X	X	X	X
Stereo	X			X

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.4 Program Audio Service (Cont'd)
- 7.4.5 Rates and Charges (See Section 15, Part 15.5)

(A)	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
Circuit Termination		[See Section 15, Part 15.5(A)]
- Per Point of Termination		
- 200 to 3500 Hz		
- 100 to 5000 Hz		
- 50 to 8000 Hz		
- 50 to 15000 Hz		
	<u>Daily Rates*</u>	
- 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 7.2.3(A) preceding.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4. Program Audio Service (Cont'd)

7.4.5 Rates and Charges (Cont'd) (See Section 15, Part 15.5)

(B)

Monthly Rates

Circuit Mileage

[See Section 15, Part 15.5(B)]

- Fixed

- 200 to 3500 Hz

- 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*

Circuit Mileage

- Fixed

- 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 7.2.3(A) preceding.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Program Audio Service (Cont'd)

7.4.5 Rates and Charges (Cont'd) (See Section 15, Part 15.5)

Daily Rates*

(B) Per Mile (Cont'd) [See Section 15, Part 15.5(B)]
- 200 to 3500 Hz

- 100 to 5000 Hz

- 50 to 8000 Hz

- 50 to 15000 Hz

(C) Optional Features and Functions [See Section 15, Part 15.5(C)]
Rates and charges for the Optional Features and Functions of Program
Audio Service listed in this section apply to all jurisdictions.

	Monthly	Daily*	Nonrecurring Charges	
	<u>Rates</u>	<u>Rates</u>	<u>Monthly</u>	<u>Daily</u>
- Bridging, Distribution Amplifier				
- Per port				
- Gain Conditioning				
- Per Service				
- Stereo				
- Per Service				

* Daily Rates will be topped and maximum rates derived as set forth in 7.2.3(A) preceding.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Video Service

7.5.1 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.

7.5.2 Technical Specifications Packages

<u>Parameter</u>	<u>Package TV-</u>			
	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>
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	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

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

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Video Service (Cont'd)

7.5.2 Technical Specifications Packages (Cont'd)

<u>Parameter</u>	<u>C*</u>	<u>Package TV-</u>	
		<u>1</u>	<u>2</u>
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 620504 and associated Addendum.

7.5.3 Channel Interfaces

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

<u>CI</u>	<u>Audio Bandwidth</u>	<u>Provision</u>
2TV6-1	15kHz	1 Channel, duplexed
2TV6-2	15kHz	2 Channels, duplexed
2TV7-1	15kHz	1 Channel, duplexed

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

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Video Service (Cont'd)

7.5.3 Channel Interfaces (Cont'd)

<u>CI</u>	<u>Audio Bandwidth</u>	<u>Provision</u>
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
6TV6-6	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 9. following.

ACCESS SERVICE

7. Special Access Service (Cont'd)
- 7.5 Video Service (Cont'd)
- 7.5.4 Rates and Charges [See Section 15, Part 15.6(A)]
- (A) Circuit Termination
- Per Point of Termination

Monthly Rates and Nonrecurring Charges for all jurisdictions will be determined on an Individual Case Basis.

Available frequency bandwidths format is as follows:

Frequency
Bandwidths

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

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.5 Video Service (Cont'd)
- 7.5.4 Rates and Charges (Cont'd) [See Section 15, Part 15.6(B)]
- (B) Circuit Mileage

Fixed and Per Mile Monthly Rates for all jurisdictions will be determined on an Individual Case Basis.

Available mileage bands format is as follows:

Mileage
Bands

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

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Digital Data Service

7.6.1 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.

7.6.2 Technical Specifications Packages

<u>Parameter</u>	<u>Package DA</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
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 designated, 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.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Digital Data Service (Cont'd)

7.6.3 Channel Interfaces

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

<u>CI</u>	<u>Bit Rate</u>
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 9. following.

7.6.4 Optional Features and Functions

- (1) Central Office Bridging Capability
- (2) 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.

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.6 Digital Data Service (Cont'd)
- 7.6.5 Rates and Charges (See Section 15, Part 15.7)

(A)	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
Circuit Termination		
- Per Point of Termination		[See Section 15, Part 15.7(A)]
- 2.4 Kbps		
- 4.8 Kbps		
- 9.6 Kbps		
- 56.0 Kbps		
(B) Circuit Mileage		[See Section 15, Part 15.7(B)]
- Fixed		
- 2.4 Kbps		
- 4.8 Kbps		
- 9.6 Kbps		
- 56 Kbps		
- Per Mile		
- 2.4 Kbps		
- 4.8 Kbps		
- 9.6 Kbps		
- 56.0 Kbps		

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Digital Data Service (Cont'd)

7.6.5 Rates and Charges (See Section 15, Part 15.7)

(C) Optional Features and Functions [See Section 15, Part 15.7(C)]

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

	<u>Optional Features and Functions</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(1)	Bridging - Per Port		
(2)	Loop Transfer Arrangement (Key Activated* or Dial-Up** - Per Four-Port Arrangement***		

* The key activated control is rated as a Metallic Circuit Termination and Circuit Mileage, if applicable.

** The Dial-Up option requires the customer to purchase the Controller Arrangement from 8.7(A) following.

*** 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 service wire center.

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.6 Digital Data Service (Cont'd)
- 7.6.5 Rates and Charges (Cont'd) (See Section 15, Part 15.7)
- (D) Channel Service Unit [See Section 15, Part 15.7(D)]

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

<u>Channel Service Limit*</u>	<u>Monthly Nonrecurring</u>	
<u>- Per Point of Termination</u>	<u>Rates</u>	<u>Charges</u>
where provided	[See Section 25, Part 15.7(D)]	
- 2.4 Kbps		
- 4.8 Kbps		
- 9.6 Kbps		
- 56.0 Kbps		

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

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 High Capacity Service

7.7.1 Basic Circuit Description

A High Capacity circuit is a circuit for the transmission of nominal 64.0 Kbps* 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.

7.7.2 Technical Specifications Packages

<u>Parameter</u>	<u>Package HC</u>					
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-Free Second		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 designated, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

* 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, 9.8, 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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 High Capacity Service (Cont'd)

7.7.3 Channel Interfaces

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

<u>CI</u>	<u>Bit Rate</u>
DS-15*	1.544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

Compatible channel interfaces are set forth in 9.3.5 following.

7.7.4 Optional Features and Functions

(1) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare 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.

(2) 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.

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

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.7 High Capacity Service (Cont'd)
- 7.7.4 Optional Features and Functions (Cont'd)
 - (3) Central Office Multiplexing
 - (a) DS4 to DS1 - An arrangement that converts a 274.176 Mbps circuit to 168 DS1 circuits using digital time division multiplexing.
 - (b) DS3 to DS1 - An arrangement that converts a 44.736 Mbps circuit to 28 DS1 circuits using digital time division multiplexing.
 - (c) DS2 to DS1 - An arrangement that converts a 6.312 Mbps circuit to four DS1 circuits using digital time division multiplexing.
 - (d) DS1C to DS1 - An arrangement that converts a 3.152 Mbps circuit to two DS1 circuits using digital time division multiplexing.
 - (e) 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.
 - (f) DS1 to DS0 - An arrangement that converts a 1.544 Mbps circuit to 23 64.0 Kbps circuits utilizing digital time division multiplexing.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7. High Capacity Service (Cont'd)

7.7.4 Optional Features and Functions (Cont'd)

(3) Central Office Multiplexing (Cont'd)

(g) DSO to Subrate - An arrangement that converts a 64.0 Kbps circuit to subspeeds of up to 20. 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-					
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Automatic Loop Transfer		X				
Central Office Multiplexing:						
DS4 to DS1					X	
DS3 to DS1				X		
DS2 to DS1			X			
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DS0	X					
DS0 to Subrate*	X					
Transfer Arrangement		X				

* Available only on a circuit of a 1.544 Mbps facility to a Telephone Company hub.

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.7 High Capacity Service (Cont'd)
- 7.7.5 Rates and Charges (See Section 15, Part 15.8)

(A)	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
<u>Circuit Termination</u>		
- Per Point of Termination		[See Section 15, Part 15.8(A)]
- 1.544 Mbps		
- 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 jurisdiction will be determined on an Individual Case Basis.

Available frequency bandwidths for years 1-1-89 to 1-1-90 are as follows:

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

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ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.7 High Capacity Service (Cont'd)
- 7.75 Rates and Charges (Cont'd) (See Section 15, part 15.8)

Monthly Rates

- (B) Circuit Mileage (See Section 15, Part 15.8)
 - 1.544 Mbps
 - Fixed

- Per Mile

Circuit Mileage

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 and filed in Section 7.8 following.

Available frequency bandwidths formats for years 1-1-89 to 1-1-90 are as follows.

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

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 High Capacity Service (Cont'd)

7.7.5 Rates and Charges (Cont'd) (See Section 15, Part 15.8)

(C) Optional Features and Functions [See Section 15, Part 15.8(C)]
Rates and charges for the Optional Features and Functions of High Capacity Service listed in this section apply to all jurisdictions.

	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
(1) Multiplexing	[See Section 15, Part 15.8(C)(1)]	
DS4 to DS1		
- Per arrangement		
DS3 to DS1		
- Per arrangement		
DS2 to DS1		
- Per arrangement		
DS1C to DS1		
- Per arrangement		
DS1 to Voice*		
- Per arrangement		
DS1 to DS0		
- Per arrangement		
DS0 to Subrates		
- Per arrangement		
Up to 20 2.4 Kbps services		
Up to 10 4.8 Kbps services		
Up to 5 9.6 Kbps service		

* A circuit of this DS1 to the hub can be used for Digital Data service. ICB rates and charges are filed in 7.8 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 High Capacity Service (Cont'd)

7.7.5 Rates and Charges (Cont'd) (See Section, Part 15.8)

(C) Optional Features and Functions (Cont'd) [See Section 15, Part 15.8(C)]

(2) Automatic Loop Transfer
- Per arrangement* Monthly Rates
[See Section 15, Part 15.8(C)(2)]

(3) Transfer Arrangement
(Key Activated** or Dial-Up***) [See Section 15, Part 15.8(C)(3)]
- Per Four-port arrangement,
including control channel
termination****)

(D) Network Channel Terminating
Equipment (NCTE)# [See Section 15, Part 15.8(D)]
- Per point of Termination
where provided
- 1.544 Mbps
- Automatic Loop Transfer

* An additional Circuit Termination charge will apply whenever the spare line is provided as a let to the customer premises.

** The key activated control circuit is rated as a Metallic Circuit Termination.

*** The Dial-Up option requires the customer to purchase the Controller Arrangement from Section 13 following.

**** 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.

NCTE will only be provided under tariff if it existed in the Telephone Company's inventory as of November 18, 1983.

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General Manager
ACS1/TAR:51

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ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.8 Individual Case Filing (See Section 15, Part 15.14)

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

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8. Miscellaneous Services

In this section normally scheduled working hours, herein defined as Basic Time hours, are hours within an employee's scheduled work period hours in any given calendar day (e.g., 7:00 a.m. to 4:00 p.m.). Overtime Time (hours) is that time outside of an employees normally scheduled Basic Time working hours. Premium Time (hours) is that time outside of an employees normally scheduled working days.

A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled Basic Time 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.

8.1 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.

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 Section 6 and 7.1.7.
- (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.

(T)

The Telephone Company will notify the customer that Additional Engineering charges, as set forth in 8.1.1 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 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 begin 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 Additional Engineering may not exceed the estimated amount by more than 10%.

ACCESS SERVICE

- 8. Miscellaneous Service (Cont'd)
- 8.1 Additional Engineering (Cont'd)
- 8.1.1 Charges for Additional Engineering (See Section 15, Part 15.9)

The charges for Additional Engineering are as follows:

Per Engineering, Per Hour, or Fraction Thereof

Basic Time Overtime Premium Time

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.2 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 8.2.1 through 8.2.5 following. The Telephone Company will notify the customer that additional labor charges as set forth in 8.2.7 following will apply before any additional labor is undertaken.

8.2.1 Overtime Installation

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

8.2.2 Overtime Repair

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

8.2.3 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.

8.2.4 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).

8.2.5 Other Labor

Other labor is that additional labor not included in 8.2.1 through 8.2.4 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.

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)
- 8.2 Additional Labor
- 8.2.6 Charges for Additional Labor (See Section 15, Part 15.10)

The charges for additional labor are as follows:

Per Technician, Per Hour, or Fraction Thereof

<u>Basic Time</u>	<u>Overtime</u>	<u>Premium Time*</u>
-------------------	-----------------	----------------------

- * A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period or non-scheduled workday is subject to a minimum charge of four hours.

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.3 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 sectionalized.

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 charges for Maintenance of Service are as follows:

Maintenance of Service
Periods
Per occurrence

Per Technician
The charges for Maintenance of Service are the same as those set for Additional Labor as set forth in 8.2 preceding.

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.4 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 Section 6 and 7.1.8 preceding. Testing Services are made subject to the availability of the necessary qualified personnel and test equipment at the requested test locations.

(T)

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 8.4(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

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.4 Additional Testing (Cont'd)

(A) (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 test, 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:

- 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.

ACCESS SERVICE

- 8. Miscellaneous Services (Cont'd)
- 8.4 Additional Testing (Cont'd)
- (C) Rates and Charges (See Section 15, Part 15.11)

The charges for Additional Testing are as follows:

Per Technician, Per Hour, or Fraction Thereof

Basic Time Overtime* Premium Time*

- * A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period or non-scheduled workday is subject to a minimum charge of four hours.

8. Miscellaneous Services (Cont'd)

8.5 Presubscription

Presubscription is an arrangement whereby an end user may select and designate to the Telephone Company an IC 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

No later than ninety (90) days prior to 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 in the presubscription process. ICs are required to place an order for Feature Group D in accordance with the regulations set forth in Section 6 preceding.

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 in (E)(1) following will apply to any subsequent change made after the equal access conversion date.

(T)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.5 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 and 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 pre-assigned 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 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.

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.5 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 contact by the Telephone Company to obtain a valid selection.

(E) Presubscription Charge

The nonrecurring charge for Prescription will be applied as follows:

- (1) After the end office equal access conversion date, for any change in the end user's selection of a primary IC, a nonrecurring charge as set forth in (5) following will apply to the end user. 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 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.
- (3) Changes in an end user's primary IC made as a result of the resolution of an end user 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.

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.5 Presubscription (Cont'd)

(E) Presubscription Charge (Cont'd)

- (4) An IC will be charged the Presubscription Charge if the IC submits a request for a change in an end user's primary IC, end user disputes that request, and the IC is unable to produce a signed letter of agency from the end user designating that IC as the end user's primary IC. End users will not be charged the Presubscription Charge for any changes made as result of an error o the part of the IC or the Telephone Company.
- (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 who have selected or been allocated to that IC, inform these end users of the cancellation, request the end users to select a new IC and state that the cancellation 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 cancelling IC the nonrecurring charge as set forth in (6) following for each end user, converting to another IC.
- (6) The nonrecurring charge for Presubscription is shown in Section 15.12, Sheet No. 22.

Presubscription, per
Telephone Exchange
Service Line or Trunk (See Section 15, Part 15.12)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.6 Telecommunications Service Priority

(C)

The Telecommunications Service Priority (TSP) System is the regulatory, administration, and operational system authorizing and providing for priority treatment to initiate and restore National Security Emergency Preparedness (NSEP) telecommunications services. Under the rules of the TSP System telephone companies are authorized and required to provision and restore services with TSP assignment before restoring services without such assignments.

(T)

(T)

The Exchange Carrier will arrange a TSP Access Service upon receipt of certification as authorized by Part 64, Subset D, Appendix A of the Federal Communications Rules and Regulations. A Design Change Charge applies when a request to provide or change a TSP Service is received subsequent to the issuance of an Access Order to install the service. In addition, the TSP charge also applies.

(N)

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

(N)

No charge applies when a TSP Service is discontinued or when ordered coincident with an access order to install service.

(C)

For Telecommunications Service rates see Section 15, Part 15.13.

(N)

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President - Telecommunications
Management Services Company

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ACCESS SERVICES

8.6 Telecommunications Service Priority (Continued)

(A) Regulations

1. The TSP System's applicability is limited to telecommunication services which the Telephone Company can discretely identify for priority provisioning and/or restoration.
2. The customer subscribing to TSP System must also be the customer subscribing to the service with which TSP is associated.
3. Under certain conditions, it may be necessary to preempt one or more customer services with a lower or no restoration priority in order to install or restore higher priority NSEP telecommunications service(s). If such preemption is necessary, and if circumstances permit, the Telephone Company will make reasonable effort to notify the preempted customer of the action to be taken. Credit allowance for such service preemption shall be made, in accordance with the provisions specified elsewhere in the Utility's Tariff.
4. In obtaining TSP System, the customer acknowledges and consents to the Telephone Company providing customer service record information to the Federal Government in order for the Government to maintain and administer its overall TSP System. This customer service record information will include the TSP Authorization Code, Telephone Company Circuit/Service ID, customer's telephone number and service location.
5. Credit allowance for service interruption for Priority Restoration Maintenance and Administration shall be the same as for the service with which it is associated as specified elsewhere in the Utilities Tariff.

(N)

(N)

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ACCESS SERVICE

8.6 Telecommunications Service Priority (Continued)

(N)

(A) Regulations (Continued)

6. When performing a service under TSP, the Telephone Company may not be in a position to notify the customer in advance of circumstances which require additional labor and for which additional labor charges apply. The TSP subscriber recognizes that quoting charges and obtaining permission to proceed would cause unnecessary delays that would be contrary to the objectives of the TSP System. In subscribing to the TSP System the customer recognizes this condition and grants the Telephone Company the right to quote charges after work has been completed.
7. Other regulations, rates and charges for services such as expedited service, special construction, due date change, Maintenance of Service etc. may apply as specified elsewhere in the Utilities Tariff when provided in conjunction with the TSP System.

(B) Definitions

Prime Service Vendor

Denotes a service vendor who contracts directly with a service user or the user's contracting activity to provide all or a portion of a TSP service. A prime service vendor may subcontract a portion of the service to other service vendors (i.e., subcontractors).

Subcontractor

Denotes the Company as a TSP service vendor with whom a prime service vendor contract to provide a portion of a service to a TSP service user.

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.7 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 "Descriptions of Standard Registration Program Connection Configurations Supplemental 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 on an individual case basis as set forth in Section 15.13.

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ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service

Citizens' Frame Relay Service (C-FRS) is a medium to high-speed connection-oriented packet-switched data service that allows for the interconnection of Local Area Networks (LANs), or other compatible customer equipment across a wide area for the purpose of interstate access. C-FRS allows for the transfer of variable length frames (packets). Frames are relayed by virtual connections, i.e., frames travel a fixed path through the network although bandwidth is not dedicated to each virtual connection.

This service uses Permanent Virtual Connections (PVCs). A PVC is a logical channel from one Frame Relay port to another Frame Relay port. PVCs are end-to-end, bi-directional symmetric channels that are installed and disconnected via the service order process.

The Frame Relay standard specifies an address field called the Data Link Connection Identifier (DLCI). The DLCI specifies a connection (e.g., customer premises to LEC switch or LEC switch to inter-exchange carrier network). A PVC is comprised of two or more DLCI's.

This service is comprised of a User Network Interface (UNI) which, allows C-FRS compatible customer premises equipment (CPE) to originate or terminate intra- and inter-exchange services. All UNI access facilities must be in conformance with American National Standards Institute (ANSI) standards T1.606-1990, T1.606 Addendum 1-1991, T1.606a-1992, T1.617, Annex D-1992.

(N)

(N)

ACCESS SERVICE

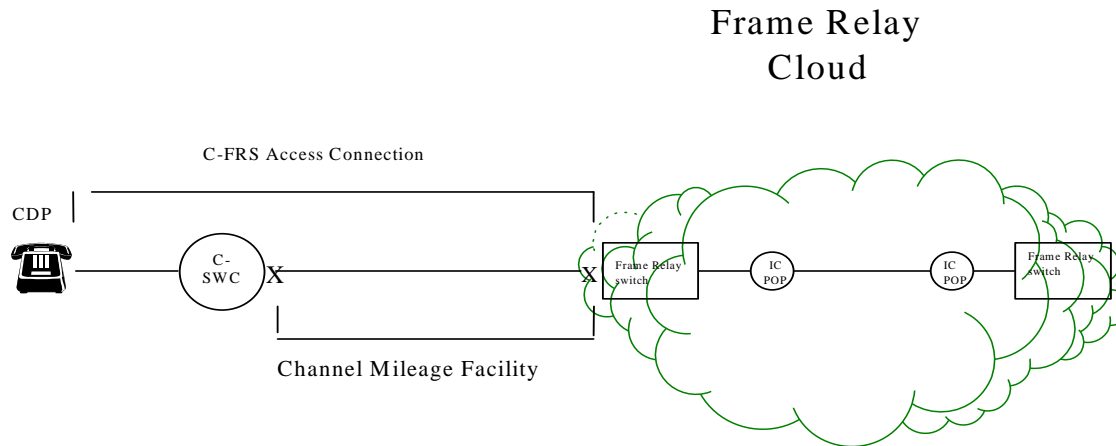
8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(N)

C-FRS provides high-speed throughput over digital facilities at speeds of 56 kbps, 64 kbps, 1.536 Mbps or 44.736 Mbps. Physical access to Citizens Communications Frame Relay network is provided via a UNI Access Connection: 56 kbps DDS, 64 kbps DDS, DS1, or DS-3 rated channel termination from Section 20 of Citizen's Frame Relay tariff. C-FRS is generally available and is ordered through the access service order process. The Access Order Service Date Interval for C-FRS is negotiated.

The following diagram depicts a generic view of components of access service for C-FRS Service and the manner in which components are combined.



(N)

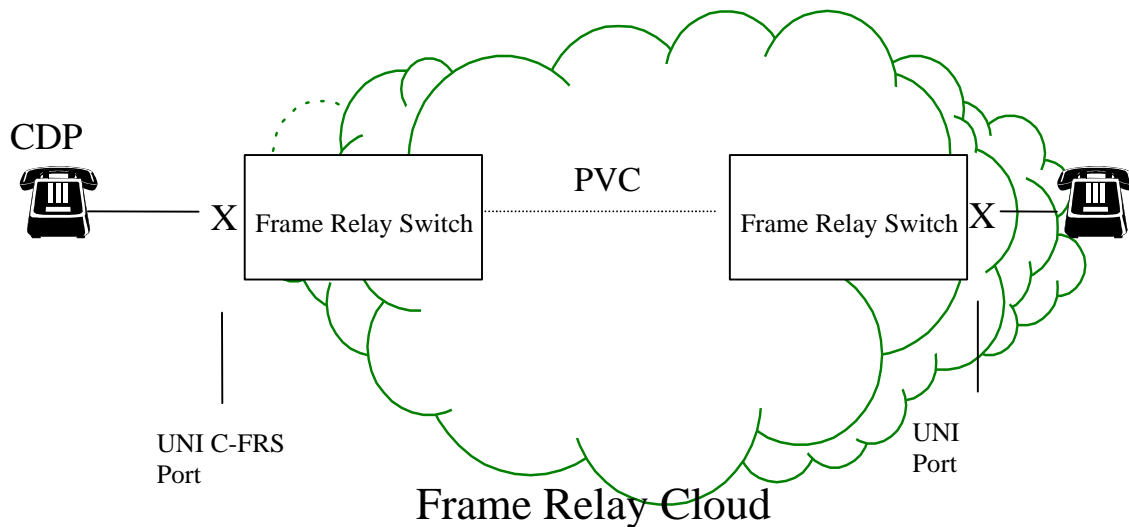
ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(N)

The following diagram depicts a generic view of the components of C-FRS Service and the manner in which the components are combined to provide a complete C-FRS connection.



(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(A) User Network Interface (UNI) Connections

The User Network Interface (UNI), is a standard interface used to connect the end user to the C-FRS Network. It receives the data frame from the customer's Local Area Network or other CPE devices and verifies that the DLCI is valid before relaying the frame to the destination end point.

- (1) The UNI Access Connection consists of a 56 kbps, 64 kbps, 1.536 Mbps or 44.736 Mbps digital facility from the customer premises to the C-FRS network and the appropriate port interface connection. Additional UNI Access Connections may be ordered for disaster recovery of one or multiple UNI Access Connections and are referred to as Back-up UNIs.

(B) Optional UNI Features

(1) Additional PVCs per UNI

This feature provides the assignment of additional Data Link Connection Identifiers (DLCIs). When any two DLCIs are mapped together, a PVC is created.

Each PVC must be a minimum of 25% of the port speed.

(N)

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

C) Network to Network Interface (NNI) Port

Network to Network Interface (NNI), specifies how an C-FRS switch sends and receives data from a Frame Relay interexchange carrier's or other customer's network. NNI's are available as 1.536 Mbps/DS1 or 44.736 Mbps/DS-3 digital transmission facility.

(D) Committed Information Rate

Committed Information Rate (CIR) is a feature that provides the customer with a mechanism for prioritizing data on a per PVC basis across a given UNI. A Committed Information Rate allows a sustained throughput at a chosen rate without having any frames designated "discard eligible" under normal operating conditions. Various CIR rates are available; however, 0 (zero) CIR is not available.

(N)

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(E) Maintenance Window

Network maintenance and network upgrades for C-FRS are performed during the hours of 11:00 p.m. and 8:00 a.m. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive (out of service) condition. The amount of time that this scheduled out of service condition will exist is called a "maintenance window". The Company will provide the customer notice prior to the maintenance window. Maintenance window activity could be scheduled for consecutive days.

(F) Rate Regulations

(1) Administrative Charge

An administrative charge will be applied whenever a change is made to a customer's Frame Relay configuration (including changes to existing group addressing), at the customer's request. Such changes are defined as those rearrangements necessary to add, delete, or rearrange the customer's configuration, including changes to a customer's selected carrier. Although multiple changes may be caused by such actions, only one administrative charge will apply.

(N)

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(F) Rate Regulations (Cont'd)

(2) Termination Charges: Month-to-Month

Each NNI provided on a month-to-month basis is subject to a minimum Service period of three months. If service is disconnected prior to the Expiration of the minimum service period, termination liability charges are applicable for the remaining portion of the minimum period, whether service is used or not. The termination liability charge will be reduced by one-third for each month of the minimum service period.

(3) Nonrecurring Charges

A nonrecurring charge applies for each installation of certain C-FRS rate elements. This charge also applies whenever the facility associated with the rate element is moved, changed or rearranged.

(4) Expedite Charges

Expedite charges are to be assessed in accordance with the rules described in Section 5.3.1(D) of this tariff.

(N)

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(F) Rate Regulations (Cont'd)

(5) Term Payment Plan – Frame Relay (TPP – FR)

(a) General

- (i) The terms and conditions specified herein are applicable to Frame Relay Service and are in addition to other regulations as specified in this tariff.
- (ii) The Frame Relay UNI Port, NNI Port and PVC monthly recurring charges are the only rate elements subject to discounts under a Term Payment Plan (TPP - FR). Frame Relay Access Connection, Channel Mileage Facility, Service charges and any non-recurring charges are not eligible for TPP - FR discounts.
- (iii) One, two and three year TPP - FR rates will be equal to or less than the standard month-to-month rates. Decreases to the month-to-month rates will flow through to the one, two and three year TPP rates.

(N)

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(F) Rate Regulations (Cont'd)

(5) Term Payment Plan – Frame Relay (TPP – FR) (Cont'd)

(a) General (cont)

- (iv) Payment periods of one year, two years, and three years are available to all customers, at the applicable rates set forth in Section 15.15.1, regardless of when they subscribe to a TPP – FR arrangement. All Frame Relay rate elements must be ordered under the same payment period; e.g. mixing payment periods for the rate elements under the same Frame Relay service is not permitted.
- (v) The customer must designate on the ASR Order Form the payment period for the TPP - FR.
- (vi) Inside moves in which the UNI location is changed, but remains within the customer premises, will not incur termination liability charges.
- (vii) On outside moves, in which the UNI location is changed to a different customer premises location within the same central office exchange area, the Company will allow the customer to retain the same TPP - FR payment period. Any other move will be treated as a disconnect of the service and termination liability charges as specified in Paragraph 8.8(F)(5)(f) will apply.

(N)

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(F) Rate Regulations (Cont'd)

(5) Term Payment Plan – Frame Relay (TPP – FR) (Cont'd)

(b) Changes in Length of TPP - FR Period.

Prior to the completion of the selected TPP - FR payment period, the customer may elect to convert to a new TPP - FR period of the same or different length, subject to the following conditions:

- (i) No credit will be given toward the new payment period for payments made under the original TPP – FR arrangement.
- (ii) No additional Nonrecurring charges will be applied for changing the existing service period.
- (iii) If the new TPP – FR period is shorter in length than the time remaining under the existing TPP - FR, the change to the new TPP period constitutes a discontinuance of the existing TPP – FR service and termination liability charges apply, as set forth in paragraph 8.8(F)(5)(f).

(N)

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(F) Rate Regulations (Cont'd)

(5) Term Payment Plan – Frame Relay (TPP – FR) (Cont'd)

(c) Renewal Options

- (i) At the expiration of a TPP – FR period, the Telephone Company will automatically renew the service at the same TPP – FR period unless the customer notifies the Company and chooses to convert to a different TPP – FR period, convert to month-to-month rates or discontinue service.
- (ii) Conversion to a different TPP – FR payment period will require the customer to submit a Change Order/ASR. Conversion of existing TPP - FR service to a different TPP – FR period will not incur application of nonrecurring or ordering charges.
- (iii) Conversion from a TPP –FR plan to month-to-month rates will be treated as a disconnection of service and establishment of new service. However, if no other changes are ordered, no NRC will be applied.

(N)

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(F) Rate Regulations (Cont'd)

(5) Term Payment Plan – Frame Relay (TPP – FR) (Cont'd)

(d) Notification of Discontinuance of the TPP – FR or service.

- (i) An order/ASR for discontinuance of a TPP – FR arrangement must be received by the Citizens Telecommunications Company at least thirty (30) days prior to actual disconnect of service.
- (ii) Monthly charges will apply for a period of thirty (30) days from the date the Company receives disconnect notification or until the requested disconnect date, whichever period is longer.

(e) Upgrade to Higher Speed Service.

Customers may elect to upgrade service(s) to a higher speed during a TPP – FR period, subject to the following conditions:

- (i) Both the existing and the new services are provided solely by the Company.
- (ii) The order to discontinue a service at an existing speed or capacity and the order for the upgraded service are received by the Company at the same time.

(N)

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(F) Rate Regulations (Cont'd)

(5) Term Payment Plan – Frame Relay (TPP – FR) (Cont'd)

(e) Upgrade to Higher Speed Service (cont'd).

- (iii) The new service will be provided at the same customer location as the discontinued service.
- (iv) The TPP for the upgraded service(s) meets or exceeds the remaining length of the existing TPP.
- (v) The total monthly rate of the new agreement is equal to or greater than the total monthly rate of the existing agreement period.
- (vi) The monthly rates for the upgraded services and/or service elements will be those in effect at the time of the service upgrade. The upgraded service will be subject to all appropriate nonrecurring charges.
- (vii) Termination liability charges will not apply as long as the upgraded service remains connected at the same point of termination(s) or meets the requirements for Inside or Outside moves.

(N)

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(F) Rate Regulations (Cont'd)

(5) Term Payment Plan – Frame Relay (TPP – FR) (Cont'd)

(f) Termination Liability.

- (i) When a TPP – FR arrangement is discontinued prior to the end of the period, termination liability charges, as set forth below, will apply based on the remainder of the TPP – FR period in effect at the time of disconnect.
- (ii) One Year TPP - FR: the termination liability will be 50% of any remaining portion of the first year's recurring charges for the in-service quantity.
- (iii) Two Year TPP - FR: the termination liability will be 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second year, the customer will be liable for 10% of the total monthly recurring charges in that time period for the in-service quantity.
- (iv) Three Year TPP – FR: the termination liability will be 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second and third years, the customer will be liable for 10% of the total monthly recurring charges in that time period for the in-service quantity.

(N)

(N)

ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.8 Frame Relay Service (Cont'd)

(N)

(F) Rate Regulations (Cont'd)

(5) Term Payment Plan – Frame Relay (TPP – FR) (Cont'd)

(g) Termination Without Liability.

During a TPP – FR period, should the currently effective rate for a customer's service increase, the customer may, at his/her option, terminate the TPP – FR arrangement without penalty or liability.

(N)

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes

9.1 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 6 preceding.

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.

(T)

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ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.1 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 9.1.11 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.

9.1.1 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.

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.1 Local Transport Interface Groups (Cont'd)

9.1.1 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.

9.1.2 Interface Group 2

Interface Group 2 provides four-wire 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.

9.1.3 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.

The interface is provided with SF supervisory signaling for each individual transmission channel.

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.1 Local Transport Interface Groups (Cont'd)

9.1.4 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 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.

9.1.5 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.

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.1 Local Transport Interface Groups (Cont'd)

9.1.6 Interface Group 6

Interface Group 6 provides DS1 level digital transmission at the point of terminating 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.

9.1.7 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.

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.1 Local Transport Interface Groups (Cont'd)

9.1.8 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.

9.1.9 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.

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.1 Local Transport Interface Groups (Cont'd)

9.1.10 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.

9.1.11 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 explanation of these codes, see the Glossary of Channel Interface Codes in 9.3.1 following.

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.1 Local Transport Interface Groups (Cont'd)

9.1.11 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	2RV3-0		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		4DX3	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			

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ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.1 Local Transport Interface Groups (Cont'd)

9.1.11 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	4RV2-0		X	X	X	
	RV	4RV2-T		X	X	X	
	RV	4RV3-0		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	

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9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.1 Local Transport Interface Groups (Cont'd)

9.1.11 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	4DS0-63	X			
	LO, GO	4DS0-63L	X			
	RV, EA, EB, EC	4DS0-63		X	X	X
	RV, EA, EB, EC	4DS0-63L		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

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ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.2 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.

9.2.1 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 6 preceding.

(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.

(T)

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.2 Transmission Specifications for Switched Access Service (Cont'd)

9.2.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

Type A Transmission Specifications is provided with the following parameters:

(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:

<u>Route Miles</u>	<u>C-Message Noise</u>
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:

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.2 Transmission Specifications for Switched Access Service (Cont'd)

9.2.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(5) Echo Control (Cont'd)

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
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 or termination shall be equal to or greater than:

<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
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) Attenuation 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.

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.2 Transmission Specifications for Switched Access Service (Cont'd)

9.2.1 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:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type B1</u>	<u>Type B2</u>
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 dBmCO 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 of termination, and type of transmission path. They are greater than or equal to the following:

* 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.

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.2 Transmission Specification for Switched Access Service (Cont'd)

9.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(5) Echo Control (Cont'd)

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem - Terminated in 4-Wire trunk	21 dB	14 dB
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 FCB 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:

<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
5 dB	2.5 dB

ACCESS SERVICE

- 9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)
- 9.2 Transmission Specifications for Switched Access Service (Cont'd)
- 9.2.1 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 Distortion

The maximum Attenuation Distortion 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:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type B1</u>	<u>Type B2</u>
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.

* 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 as set forth in Technical Reference TR-NPL-000334.

ACCESS SERVICE

- 9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)
- 9.2 Transmission Specifications for Switched Access Service (Cont'd)
- 9.2.1 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:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	13 dB	6 dB
POT to End Office		
- Direct	13 dB	6 dB
- Via Access Tandem (for FGB only)	8 dB	4 dB

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.2 Transmission Specifications for Switched Access Service (Cont'd)

9.2.2 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 6 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:

<u>604 to 2804 Hz</u>	
less than 30 route miles	500 microseconds
equal to or greater than 30 route miles	900 microseconds

<u>1004 to 2404 Hz</u>	
less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65dBrcCo 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

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.2 Transmission Specifications for Switched Access Service (Cont'd)

9.2.2 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.

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.2 Transmission Specifications for Switched Access Service (Cont'd)

9.2.2 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 dB_{rnCO} threshold in 15 minutes is no more than 15 counts.

(4) Intermodulations 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.

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 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)

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.1 Glossary of Channel Interface Codes and Option

<u>Code</u>	<u>Option</u>	<u>Definition</u>
AB	-	accepts 20 Hz ringing signal at customer's point of termination
AC	-	accepts 20 Hz ringing signal at customer's end user's point of termination
AH	-	analog high capacity interface
	- B	60 kHz to 108 kHz (12 channels)
	- C	312 kHz to 552 kHz (60 channels)
	- D	564 kHz to 3084 kHz (600 channels)
CT		Centrex Tie Trunk Termination
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

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9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
-	15J	1.544 Mbps format per PUB 41451
-	15K	1.544 Mbps format per PUB 41451 plus extended framing format
-	15L	1.544 Mbps (DS1) with SF signaling
-	27	274.176 Mbps (DS4)
-	27L	274.176 Mbps (DS4) with SF signaling
-	31	3.152 Mbps (DS1C)
-	31L	3.152 Mbps (DS1C) with SF signaling
-	44	44.736 Mbps (DS3)
-	44L	44.736 Mbps (DS3) with SF signaling
-	63	6.312 Mbps (DS2)
-	63L	6.312 Mbps (DS2) with 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.
EM	- E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.

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9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>		<u>Option</u>	<u>Definition</u>
EB	-	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT
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 and (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 functions 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

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9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
PG		program transmission - no dc signaling
	- 1	nominal frequency from 50 to 15000 Hz
	- 3	nominal frequency from 200 to 3500 Hz
	- 5	nominal frequency from 100 to 5000 Hz
	- 8	nominal frequency from 50 to 8000 Hz
PR		protective relaying*
RV	-0	reverse battery signaling, one way operation, originate by customer
	-T	reverse battery signaling, one way operation. terminate function by customer or customer's end user
SF		single frequency signaling with VF band at either customer POT or customer's end user POT
TF		telephotograph interface
TT	-	telegraph/teletypewriter interface at either customer POT or customer's end user POT
	-2	20.0 milliamperes
	-3	3.0 milliamperes
	-6	62.5 milliamperes
TV		television interface
	-1	combined (diplexed) video and one audio signal
	-2	combined (diplexed) video and two audio signals
	-5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire
	- 15	video plus one (or two) audio 15 kHz signal(s)
WA		wideband bandwidth interface at customer's end
POT		
	- 1	limited bandwidth
	- 2	nominal passband from 29000 to 44000 Hz

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

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
WB		wideband data interface at customer POT
	- 18S	18.75 kbps, synchronous
	- 19A	up to 19.2 synchronous
	- 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 asynchronous
WC	- 50S	50.0 kbps synchronous
		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's 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

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9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.2 Impedance

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

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

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

ACCESS SERVICE

- 9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)
- 9.3 Channel Interface and Network Channel Codes (Cont'd)
- 9.3.3 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, 4DSO or 4DS6 plus the speed options indicated below:

<u>Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS8-15	1.544	DS1
4DS9-31	3.152	DS1C
4DSO-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

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9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.4 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.

<u>Service Designator Code</u>	<u>Network Channel Code</u>
MTC	MQ
MT1	NT
MT2	NU
MT3	NV
TGC	NQ
TG1	NW
TG2	NY
VGC	LQ
VG1	LB
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

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DECISION #: 56807

ACCESS SERVICE

- 9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)
- 9.3 Channel Interface and Network Channel Codes (Cont'd)
- 9.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

<u>Service Designator Code</u>	<u>Network Channel Code</u>
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

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ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces

The following tables show the channel interface codes (CIs) which are compatible:

(A) Metallic

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH5-B	2DC8-1	4AH6-D	2DC8-2
4AH5-B	24C8-2	2DC8-1	2DC8-2
4AH6-C	2DC8-1	2DC8-3	2DC8-3
4AH6-C	2DC8-2	4DS9-*	2DC8-1
4AH6-D	2DC8-1	4DS9-*	2DC8-2

(B) Telegraph Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH5-B	10IA8	4AH6-D	4TT2-6	4DB2-43+	4TT2-2
4AH5-B	2TT2-2	2DB2-10	10IA8	4DS9-*	10IA8
4AH5-B	4TT2-2	2DB2-10	2TT2-2	4DS9-*	2TT2-2
4AH5-B	2TT2-6	2DB2-10	4TT2-2	4DS9-*	4TT2-2
4AH5-B	4TT2-6	2DB2-43+	10IA8	4DS9-*	2TT2-6
4AH6-C	10IA8	2DB2-43+	2TT2-2	4DS9-*	4TT2-6
4AH6-C	2TT2-2	2DB2-43+	2TT2-6	2TT2-2	2TT2-2
4AH6-C	4TT2-2	2DB2-43+	4TT2-2	2TT2-3	2TT2-2
4AH6-C	2TT2-6	4DB2-10	10IA8	2TT2-3	4TT2-2
4AH6-C	4TT2-6	4DB2-10	2TT2-2	2TT2-6	2TT2-6
4AH6-D	10IA8	4DB2-10	4TT2-2	2TT2-6	4TT2-2
4AH6-D	2TT2-2	4DB2-43+	10IA8	4TT2-2	4TT2-2
4AH6-D	4TT2-2	4DB2-43+	2TT2-6	4TT2-6	2TT2-6
4AH6-D	2TT2-6				

* See 7.5.3 preceding for explanation.

+ Supplemental Channel Assignment information required.

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9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5. Compatible Channel Interfaces (Cont'd)

(C) Voice Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AB2	4AB2				
4AB2	4AC2	4AH5-B	6DA2	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	6EA2-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		

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9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
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	2G02	4AH5-B	2LC2	4AH5-B	2LS2
4AH6-D	2G03				
4AH6-C	2G02				
4AH6-C	2G02			4AH5-B	2LS3
4AH5-B	2G02	4AH6-D	2L03		
4AH5-B	2G03				

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9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH6-D	4N02	4AH6-D	4TF2	2CT3	8EB2-E
4AH6-D	2N02	4AJ7-D	2TF2	2CT3	8EB2-M
4AH6-C	4N02	4AH6-C	4TF2		
4AH6-C	2N02	4AH6-C	2TF2	2CT3	6482-E
4AH5-B	4N02	4AH5-B	4TF2	2CT3	6EB2-M
4AH5-B	2N02	4AH5-B	2TF2		
		2CT3	4DS9-*	2CT3	6EB3-E
		2CT3	6DX2	2CT3	8EC2
		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	4N02
4AH5-B	4TV2-T	2CT3	4EA2-E	4DB2	2N02
4AH5-B	2RV2-T	2CT3	4EA2-M	2DB2	2N02
4AH6-D	4SF2			4DB2	4PR2
4AH6-C	4SF2			4DB2	2PR2
4AH5-B	4SF2			2DB2	2PR2
4AH6-D	4SF3				
4AH6-C	4SF3				
4AH5-B	4SF3				

* See 9.3.3 preceding for explanation.

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 EFFECTIVE DATE May 1, 1990
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ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DD3	4DE2	4DS8-*	9DY3
4DD3	2DE2	4DS8-*	9DY2
		4DS8-*	6DY3
4DS8-*	4AC2	4DS8-*	6DY2
4DS8-*	2AC2	4DS8-*	4DY2
		4DS8-*	2DY2
4DS8-*	6DA2		
4DS8-*	4DA2		
4DS8-*	2DA2	4DS8-*	9EA2
		4DS8-*	9EA3
4DS8-*	4DE2	4DS8-*	6EA2-E
4DS8-*	EDE2	4DS8-*	6EA2-M
		4DS8-*	4EA2-E
4DS8-*	4DX3	4DS8-*	4EA2-E
4DS8-*	4DX2		

* See 9.3.3 preceding for explanation.

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ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS8-*	8EB2-E	4DS8-*	4N02	4DX3	9DY2
4DS8-*	8EB2-M	4DS8-*	2N02	4DX2	6DY3
4DS8-*	6EB2-E			4DX3	6DY3
4DS8-*	6EB2-M	4DS8-*	4PR2	4DX2	6DY2
		4DS8-*	2PR2	4DX3	6DY2
4DS8-*	2G02			4DX2	4DY2
4DS8-*	2G03	4DS8-*	4RV2-T	4DX3	4DY2
4DS8-*	6GS2	4DS8-*	2RV2-T	4DX2	2DY2
4DS8-*	4GS2			4DX3	2DY2
4DS8-*	2GS2	4DS8-*	4SF2		
4DS8-*	2GS3	4DS8-*	4SF3	6DX2	9EA3
				6DX2	9EA2
4DS8-*	2LA2	4DS8-*	4TF2	6DX2	6EA2-E
		4DS8-*	2TF2	6DX2	6EA2-M
4DS8-*	2LB2			6DX2	4EA2-E
		4DX2	4DX2	6DX2	4EA2-M
8DS8-*	2LC2	4DX3	4DX2	4DX2	9EA2
		4DX3	4DX3	4DX3	9EA2
4DS8-*	2L02			4DX2	9EA3
4DS8-*	2L03	6DX2	9DY3	4DX3	9EA3
		6DX2	9DY2	4DX2	6EA2-E
4DS8-*	4LR2	6DX2	6DY3	4DX3	6EA2-E
4DS8-*	2LR2	6DX2	6DY2	4DX2	6EA2-M
		6DX2	4DY2	4DX3	6EA2-M
4DS8-*	6LS2	6DX2	2DY2	4DX2	4EA2-E
4DS8-*	4LS2	4DX2	9DY3	4DX3	4EA2-E
4DS8-*	2LS2	4DX3	9DY3	4DX2	4EA2-M
4DS8-*	2LS3	4DX2	9DY2	4DX3	4EA2-M

* See 9.3.3 preceding for explanation.

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 IN COMPLIANCE WITH
 DECISION #: 56807

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
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	2L03	9DY3	6DY3	9EA2	2DY2
4DX3	2L03	9DY3	6DY2	9EA3	9DY3
2DX3	2L03	9DY2	6DY2		

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 IN COMPLIANCE WITH
 DECISION #: 56807

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
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	4EA2M	2DY2	9EA2	8EA2-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	8EB2-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	8EB2-M
4EA2-E	9DY2	6EA2-E	6EA2-M	6EA2-M	6EB2-E
4EA2-E	9DY2	6EA2-E	6EA2-M	6EA2-M	6EB2-M
4EA3-E	9DY3	6EA2-M	6EA2-M	6EA2-M	8EB2-E
4EA3-E	9DY2	6EA2-E	4EA2-E	4EA2-E	8EB2-M
4EA3-E	6DY3	6EA2-E	4EA2-M	4EA2-E	8EB2-E
4EA3-E	6DY2	6EA2-M	4EA2-E	4EA3-E	8EB2-M
4EA3-E	4DY2	6EA2-M	4EA2-M	4EA3-E	6EB2-E
4EA3-E	2DY2	4EA2-E	4EA2-E	4EA2-E	6EB2-M
4EA2-E	6DY3	4EA3-E	6EA2-E	4EA2-E	6EB2-E
4EA2-E	6DY2	4EA3-E	6EA2-M	4EA3-E	6EB2-M
4EA2-E	4DY2	4EA3-E	4EA2-E	4EA3-E	6EB2-E
4EA2-E	2DY2	4EA3-E	4EA2-M	4EA2-M	8EB2-E
4EA2-M	9DY3	4EA2-E	4EA2-M		

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 DECISION #: 56807

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Code (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
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	2L03	8EB2-M	2AC2	6EB2-M	4DY2
6EA2-M	2L03			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

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ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
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	2G03
6EB2-M	6EB2-M	8EB2-M	4SF2	6EX2-A	6CS2
		83B2-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	2LA3
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	2L03	8EC2	4DY2	6EX2-B	2L02
8EB2-M	2L03	8EC2	2DY2	6EX2-B	2L03
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		

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 FILED BY Jerry K. Kite
 General Manager
 ACS1/TAR:180

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 IN COMPLIANCE WITH
 DECISION #: 56807

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EX2-A	4SF2	6L02	6LS2	4LR2	4SF2
6EX2-B	4SF2	6L02	4LS2	4LR3	4SF2
		6L02	2LS2		
6G02	6GS2	6L02	2LS3	6LS2	2LA2
6G02	4GS2	4L02	6LS2	4LS2	2LA2
6G02	2GS2	4L02	4LS2	4LS3	2LA2
6G02	2GS3	4L03	6LS2	2LS2	2LA2
4G02	6GS2	4L03	4LS2	2LS3	2LA2
4G03	6GS2	4L03	2LS3		
4G02	4GS2	4L03	2LS2	6LS2	2LB2
4G03	4GS2	4L02	2LS2	4LS2	2LB2
4G02	2CS2	4L02	2LS3	4LS3	2LB2
4G02	2GS3	2L03	2LS3	2LS2	2LB2
4G03	2GS2	2L03	2LS2	2LS3	2LB2
4G03	2GS3	2L02	2LS2		
2G02	2GS2	2L02	2LS3	6LS2	2LC2
2G03	2GS2			4LS2	2LC2
2G02	2GS3	6L02	4SF2	4LS3	2LC2
2G03	2GS3	4L02	4SF2	2LS2	2LC2
		4L03	4SF2	2LS3	2LC2
6G02	4SF2				
4G02	4SF2	4LR2	4LR1	6LS2	2L03
4G03	4SF2	4LR3	2LR2	6LS2	2L02
		4LR2	4LR2	4LS2	2L02
6GS2	2G02	4LR2	2LR2	4LS2	2L03
4GS2	2G02	2LR2	2LR2	4LS3	2L02
4GS3	2G02	2LR3	2LR2	4LS3	2L03
4GS2	2G03				

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FILED BY Jerry K. Kite
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ACS1/TAR:181

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IN COMPLIANCE WITH
DECISION #: 56807

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interface (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6LS2	4SF2	4SF3	9DY2	4SF3	2LA2
4LS3	4SF2	4SF2	9DY3		
		4SF3	6DY3	4SF2	2LB2
4N02	6DA2	4SF2	6DY3	4SF3	2LB2
4N02	4DA2	4SF2	6DY3		
4N02	2DA2	4SF3	6DY2	4SF2	2LC2
2N02	2DA2	4SF2	4DY2	4SF3	2LC2
		4SF3	4DY2		
4N02	4DE2	4SF3	2DY2	4SF2	2L03
4N02	2DE2	4SF2	2DY2	4SF3	2L03
4N02	4N02	4SF3	9EA2	4SF2	2LR2
4N02	2N02	4SF3	9EA3	4SF3	4LR2
2N02	2N02	4SF3	4EA2-E	4SF3	2LR2
2N03	2N02	4SF3	4EA2-M		
				4SF3	6LS2
2N03	2PR2	4SF3	6EB2-E	4SF2	4LS2
		4SF3	6EB2-M	4SF3	4LS2
4RV2-0	4RV2-T	4SF3	2G03	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	2CS3	4SF3	2RV2-T
4SF3	9DY3				
4SF2	9DY2	4SF2	2LA2	4SF3	4SF3

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 FILED BY Jerry K. Kite
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 ACS1/TAR:182

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 IN COMPLIANCE WITH
 DECISION #: 56807

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs

4SF3 4SF2
4SF2 4SF2

4TF2 4TF2
4TF2 2TF2
2TF3 2TF2

ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(D) Program Audio

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH5-B	2PG1-3	4AH6-D	2PG1-3	4DS8-15F	2PG2-5
4AH5-B	2PG1-5	4AH6-D	2PG1-5	4DS8-15G	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	2PG2-1
4AH5-B	2PG2-8	4AH6-D	2PG2-8	2PG2-3	2PG1-3
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

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

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ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(F) Wideband Analog

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH5-B	4AH5-B			4WD5-1	4WA5-1
4AH6-C	4AH5-B			4WD5-2	4WA5-1
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	4DUB-A, B OR C	
	4AH6-C	4DU8-A, B or C	4DU8-A, B or C		
		4AH6-D	4DU8-A, B or C		

(G) Wideband Data

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
8WB5-18S	12WC6-18	8WB5-23A	10WC6-23	8WB5-50A	10WC6-50
8WB5-19A	10WC6-19	8WB5-23S	12W6-23S	8WB5-50S	12WB6-50
8WB5-19S	12WC6-19	8WB5-40S	12W6-40		

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ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(H) Digital Data

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

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

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ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

9.3 Channel Interface and Network Channel Codes (Cont'd)

9.3.5 Compatible Channel Interfaces (Cont'd)

(I) High Capacity

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS0-63	4DS0-63	4DS8-15	4DU8-8
4DS0-63	6DU8-A, B or C	4DS8-15J	6DU8-A
4DS0-63	4DU8-A, B or C	4DS8-15J	4DU8-A
4DS6-27	4DS6-27	4DS8-15K	6DU8-B
4DS6-27	6DU8-A, B or C	4DS8-15K	4DU8-B
4DS6-27	4DU8-A, B or C	4DS8-15K	6DU8-C
4DS6-44	4DS6-44	4DS8-15K	4D78-C
4DS6-44	6DU8-A, B or C	4DS9-31	4DS9-31
4DS6-44	4DU8-A, B or C	4DS9-31	6DU8-A, B or C
4DS8-15	4DS8-15+	4DS9-4DU8-A, B or C	
4DS8-15	6DU8-B	4DU9-A, B or C	4DU8-A, B or C

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

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ACCESS SERVICE

10. Special Federal Government Access Services

10.1 General

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

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

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ACCESS SERVICE

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

10.2 Emergency Conditions

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

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

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ACCESS SERVICE

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

10.3 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 5.1.7 preceding.

10.4 Safeguarding of Service

10.4.1 Facility Availability

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

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

10.5 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.

ACCESS SERVICE

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

10.6 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.

10.6.1 Type and Description

(A) Voice Grade Special Access Service

(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 Condition - The absolute loss (referenced to 1 millwatt) 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
± 1dB between 1,000 Hz and 40,000 Hz
± 2 dB between 10 Hz and 50,000 Hz
(+ means more loss)

ACCESS SERVICE

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

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.1 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

Appropriate 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 variations 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.

ACCESS SERVICE

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

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Service (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 communications 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 Communication Type II

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

(3) Wideband Secure Communicants Type III

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

ACCESS SERVICE

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

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.1 Type and Description (Cont'd)

(B) Wideband Digital Special Access Services (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 Communicants (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.

10.6.2 Mileage Application

Mileage, when used for rate application between two customer premises, shall be determined by the V and H Coordinates Method as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF FCC No. 4.

ACCESS SERVICE

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

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.3 Rates and Charges

(A) Voice Grade Special Access Service (See Section 15, Part 15.13)

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.

ACCESS SERVICE

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

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.3 Rates and Charges (Cont'd)

(B) Wideband Digital Special Access Service (See Section 15, Part 15.13)

<u>Wideband Secure Communications</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Termination Charges</u>
Type I, each	ICB rates and charges apply		
Type II, each	ICB rates and charges apply		
Type III, each	ICB rates and charges apply		

(C) Move Charges (See Section 15, Part 15.13)

- (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 charges 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.

ACCESS SERVICE

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

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.3 Rates and Charges (Cont'd)

(D) Special Routing Access Services (See Section 15, Part 15.13)

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	(See Section 15, Part 15.13)	
(2) Special Routing Access Service Trunk Group Setup, per End Office, or Tandem Office, Switching Systems per occurrence	(See Section 15, Part 15.13)	
(3) Special Routing Access Service Mode Selection (Active or Deactive), per Switch System per occurrence	(See Section 15, Part 15.13)	
(4) Special Routing Access Service Maintenance and Administration, per Switching System per month*	(See Section 15, Part 15.13)	

* This rate applies only to Switching Systems with this feature.

ACCESS SERVICE

11. Special Facilities Routing of Access Services

11.1 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:

11.1.1 Diversity

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

11.1.2 Avoidance

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

11.1.3 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 6. preceding; Voice Grade Special Access Services as set forth in 7.3 preceding; and Special Federal Government Access Services as set forth in 10.6 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 7.3 preceding; and Special Federal Government Access Services as set forth in 10.6 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.

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ACCESS SERVICE

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

11.1 Description of Special Facilities Routing of Access Services (Cont'd)

11.1.3 Cable-Only Facilities

The rates and charge for Special Facilities Routing of Access Services as set forth in 11.2 following are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

11.2 Rates and Charges for Special Facilities Routing of Access Service
(See Section 15, Part 15.13)

The rates and charges for Special Facilities Routing of Access Services are as follows:

11.2.1 Diversity (See Section 15, Part 15.13)

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

11.2.2 Avoidance (See Section 15, Part 15.13)

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

ACCESS SERVICE

11. Special Facilities Routing of Access Services

11.2 Rates and Charges for Special Facilities Routing of Access Services
(Cont'd)

11.2.3 Diversity and Avoidance Combined (See Section 15, Part 15.13)

For each service provided in accordance with 11.1.1 and 11.1.2 preceding, combined, the rates and charges will be developed on an individual case basis.

11.2.4 Cable-Only Facilities (See Section 15, part 15.13)

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

ACCESS SERVICE

12. Specialized Service or Arrangements

12.1 General

Specialized Service or Arrangements may be provided by the Telephone Company, at the request of a customer, on an individual case basis if such service or arrangement 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.

12.2 Rates and Charges (See Section 15, Part 15.13)

Rates and Charges and additional regulations if applicable, for specialized service or arrangement provided on an individual case basis are filed following in Section 15.

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ACCESS SERVICE

13. 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).

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

(Reserved for future use.)

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

(Reserved for future use.)

- 13.3 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.)

- 13.4 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.)

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

(Reserved for future use.)

ACCESS SERVICE

14. Special Construction

14.1 Application of Tariff

This section contains regulations, rates, charges, and liabilities applicable for the special construction of intrastate facilities provided by the Telephone 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.

14.2 Regulations

14.2.1 Filing of Charges

Rates, charges, and liabilities for special construction to provide facilities for use for one month or more are filed in Section 14.3 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.

14.2.2 Ownership of Facilities

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

14.2.3 Interval to Provide Facilities

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

ACCESS SERVICE

14. Special Construction (Cont'd)

14.2 Regulations (Cont'd)

14.2.4 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 intrastate service shall be in accordance with this tariff. Charges for the portion of the construction used to provide interstate service shall be in accordance with the appropriate interstate tariff.

14.2.5 Payments for Special Construction

14.2.5.1 Payment of Charges

All bills associated with special construction charges are due in accordance with the regulations in the appropriate service tariff.

14.2.5.2 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.

14.2.5.3 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 14.2.6.4(A)(4) following, the credit allowance will be terminated on the seventh calendar day after the Telephone Company has provided the customer with written notification of the need for replacement. The credit allowance will resume on the day after the Telephone Company receives written authorization for the replacement from the customer.

ACCESS SERVICE

14. Special Construction (Cont'd)

14.2 Regulations (Cont'd)

14.2.6 Liabilities and Charges for Special Construction

14.2.6.1 General

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

14.2.6.2 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 Telephone Company has no other requirement for facilities requested.
- It is requested that service be furnished using a type of facility, or via a route, other than that which the Telephone Company would normally utilize in furnishing the requested service.
- 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 Telephone Company.

14.2.6.3 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.

ACCESS SERVICE

14. Special Construction (Cont'd)

14.2 Regulations (Cont'd)

14.2.6 Liabilities and Charges for Special Construction (Cont'd)

14.2.6.4 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 expense 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 associated with a type of facility or route other than that which the Telephone 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 of 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.

ACCESS SERVICE

- 14. Special Construction (Cont'd)
- 14.2 Regulations (Cont'd)
- 14.2.6 Liabilities and Charges for Special Construction (Cont'd)
- 14.2.6.4 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.

ACCESS SERVICE

- 14. Special Construction (Cont'd)
- 14.2 Regulations (Cont'd)
- 14.2.6 Liabilities and Charges for Special Construction (Cont'd)
- 14.2.6.4 Types of Liabilities and Charges (Cont'd)
- (B) Maximum Termination Liability Termination Charge

A Maximum Termination Liability is equal to the nonrecoverable 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

<u>Maximum Termination Liability</u>	<u>Effective Date</u>	<u>Expiration Date</u>
\$10,000	6/1/84	6/1/94
7,000	6/1/94	6/0/04
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.

ACCESS SERVICE

- 14. Special Construction (Cont'd)
- 14.2 Regulations (Cont'd)
- 14.2.6 Liabilities and Charges for Special Construction (Cont'd)
- 14.2.6.4 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.

ACCESS SERVICE

- 14. Special Construction (Cont'd)
- 14.2 Regulations (Cont'd)
- 14.2.6 Liabilities and Charges for Special Construction (Cont'd)
- 14.2.6.4 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 $\$60,000 \times 900/3600$, 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 of years (including any fraction thereof) in the ILP to determine the underutilization charge.

ACCESS SERVICE

14. Special Construction (Cont'd)

14.2 Regulations (Cont'd)

14.2.6 Liabilities and Charges for Special Construction (Cont'd)

14.2.6.4 Types of Liabilities and Charges (Cont'd)

(C) Annual Underutilization Liability and Underutilization Charge (Cont'd)

Annual 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., $420 [70\% \text{ of } 600] - 400 = 20$). 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.

ACCESS SERVICE

14. Special Construction (Cont'd)
- 14.2 Regulations (Cont'd)
- 14.2.6 Liabilities and Charges for Special Construction (Cont'd)
- 14.2.6.4 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 14.2.6.4(A)(3) preceding has been elected, the recurring monthly charge will be reduced to include specially constructed facilities operating expenses only.
- (b) If the actual cost option as set forth in 14.2.6.3 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 nonrecoverable costs incurred by the Telephone Company in associated with the special construction up to and including the time of cancellation.
- 14.2.7 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:

ACCESS SERVICE

14. Special Construction (Cont'd)

14.2 Regulations (Cont'd)

14.2.7 Deferral of Start of Service (Cont'd)

14.2.7.1 Construction Has Not Begun

If the Telephone Company has not incurred any installation costs before receiving a request for deferral, no charge applies.

14.2.7.1 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 Service 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 costs 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.

14.2.7.3 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.

ACCESS SERVICE

14. Special Construction (Cont'd)

14.2 Regulations (Cont'd)

14.2.8 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 specifically 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 intrastate 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.

ACCESS SERVICE

14. Special Construction (Cont'd)

14.2 Regulations (Cont'd)

14.2.8 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 construction 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.

ACCESS SERVICE

14. Special Construction (Cont'd)

14.3 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:

<u>Case No.</u>	<u>Telephone Co./ Customer Name</u>	<u>Description</u>	<u>Charge/ Liability</u>	<u>Effective Date</u>	<u>Expiration Date</u>
-----------------	-------------------------------------	--------------------	--------------------------	-----------------------	------------------------

DATE ISSUED April 23, 1990
EFFECTIVE DATE May 1, 1990
FILED BY Jerry K. Kite
General Manager
ACS1/TAR:201

SECTION BELOW RESERVED FOR
ACC TARIFF APPROVAL
APPROVED FOR FILING
IN COMPLIANCE WITH
DECISION #: 56807

ACCESS SERVICE

15. Rates and Charges

15.1 Carrier Common Line Access Service (Ref. Section 3, Part 3.8)

The rate for Carrier Common Line Access is:

	<u>Rate</u>
Access, per minute	
- Originating, per Access Minute – Non 800/888	\$0.01937
- Originating, per Access Minutes – 800/888	*
- Terminating	0

(C)
(N)

* See Frontier Telephone Companies Tariff FCC No. 1 for rates

(N)

DATE ISSUED: May 11, 2021
EFFECTIVE DATE: July 1, 2021
SENIOR VICE PRESIDENT
REGULATORY AFFAIRS

SECTION BELOW RESERVED FOR
ACC TARIFF APPROVAL

ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.2 Access Service Request Modifications

(A) Service Date Change Charge [Reference Section 5, Part 5.3.1(A)]

	<u>CHARGE</u>
Service Date Change Charge, per order	\$27.00

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(Z)

ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.2 Access Service Request Modifications (Cont'd)

(B) Design Change Charge [Ref. Section 5, Part 5.3.1(C)]

	<u>RATE</u>
Design Change Charge, per order	\$27.00

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(Z)

ACCESS SERVICE

15. Reserved For Future Use

15.3 Switched Access Rates and Charges

Regulations concerning Switched Access are set forth in Section 6 proceeding.

Exceptions to Switched Access rates listed in the Telephone Company's Interstate tariff are as follows:

(A) Rates and Charges

	<u>Rates</u>		
	<u>Originating</u>	<u>Terminating*</u>	
Local Switching (LS1) – Non 800/888	\$0.01515870		(C)
Local Switching (LS2) – Non 800/888	\$0.01515870		(C)
Transition (LS) N Prem	\$0		
Switched 56 Kbps	\$0		
Tandem Switched Transport – Non 800/888	\$0.00788081		(C)
Network Blocking – per Blocked Call	\$0.00750000		
800 DB Query, Basic	*		

* See Frontier Telephone Companies Tariff FCC No. 1 for rates.

(C)

DATE ISSUED: May 11, 2021
 EFFECTIVE DATE: July 1, 2021
 SENIOR VICE PRESIDENT
 REGULATORY AFFAIRS

SECTION BELOW RESERVED FOR
 ACC TARIFF APPROVAL

ACCESS SERVICE

15. Reserved For Future Use

(T)

(D)

(D)

DATE ISSUED: May 9, 2012
EFFECTIVE DATE: July 1, 2012
KENNETH MASON, VICE PRESIDENT
GOVERNMENT & REGULATORY AFFAIRS

SECTION BELOW RESERVED FOR
ACC TARIFF APPROVAL

ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.4 Special Access Voice Grade Service (Ref. Section 7, Part 7.3.5)

	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
(A) Circuit Termination	[Ref. Section 7, Part 7.3.5(A)]	
- Per Point of Termination		
- Two-wire	\$27.88	\$327.53
- Four-wire	47.96	327.53
(B) Circuit Mileage	[Ref. Section 7, Part 7.3.5(B)]	
- Fixed		
- Two/Four-wire	\$10.02	
- Per mile		
- Two/Four-wire	2.84	

(Z)

(Z)

DATE ISSUED: September 18, 2012
 EFFECTIVE DATE: October 18, 2012
 KENNETH MASON, VICE PRESIDENT
 GOVERNMENT & REGULATORY AFFAIRS

SECTION BELOW RESERVED FOR
 ACC TARIFF APPROVAL

ACCESS SERVICE

15.	<u>Rates and Charges</u> (Cont'd)		(Z)
15.4	<u>Special Access Voice Grade Service</u> (Cont'd) [Ref. Section 7, Part 7.3.5(C)]		
(C)	<u>Optional Features and Functions</u> [Ref. Section 7, Part 7.3.5(C)] Rates and charges for the Optional Features and Functions of Voice Grade Service listed in this section apply to all jurisdictions.		
(1)	<u>Bridging</u> [Ref. Section 7, Part 7.3.5(C)(1)]		
		<u>Monthly Rates</u>	
(a)	<u>Voice Bridging</u>		
	- Per port		
	- Two-wire	\$8.05	
	- Four-wire	8.05	
(b)	<u>Data Bridging</u>		
	- Per port		
	- Two-wire	8.05	
	- Four-wire	8.05	
(c)	<u>Telephoto Bridging</u>		
	- Per port		
	- Two-wire	8.05	
	- Four-wire	8.05	
(d)	<u>DATAPHONE Select-A-Station Bridging</u>		
	<u>Sequential Arrangement Ports</u>		
	- Per Circuit Connected		
	- 2-wire	24.07	
	- 4-wire	127.86	
	<u>Addressable Arrangement Ports</u>		
	- Per Circuit Connected		
	- 2-wire	25.80	
	- 4-wire	131.35	(Z)

ACCESS SERVICE

15.	<u>Rates and Charges</u> (Cont'd)	
15.4	<u>Special Access Voice Grade Service</u> (Cont'd)	
(C)	<u>Optional Features and Functions</u> (Cont'd) [Ref. Section 7, Part 7.3.5(C)]	
(1)	Bridging (Cont'd)	[Ref. Section 7, Part 7.3.5(C)(1)]
		<u>Monthly Rates</u>
(e)	<u>Telemetry and Alarm Bridging</u>	
	Active Bridging Circuit Connections	
	- Per Circuit Connected	
	- Split Band	\$9.12
	- Summation	1.55
	Passive Bridging Circuit Connections	
	- Per Circuit Connected	0.23
(2)	Conditioning	[Ref. Section 7, Part 7.3.5(C)(2)]
	- Per Point of Termination	
	- C-Type	\$4.70
	- Sealing Current	3.51
(3)	Improved Return Loss for Effective Four-wire Transmission	[Ref. Section 7, Part 7.3.5(C)(3)]
	- Per Point of Termination	
	- Two-wire	\$3.66
	- Four-wire	3.66
(4)	Customer Specified Receive Level	[Ref. Section 7, Part 7.3.5(C)(4)]
	- Per Two-wire Point of Termination	\$2.17

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.4 Special Access Voice Grade Service (Cont'd)

(C) Optional Features and Functions (Cont'd) [Ref. Section 7, Part 7.3.5(C)]

Monthly Rates

(5)	Multiplexing Voice to Telegraph Grade - Per Arrangement	[Ref. Section 7, Part 7.3.5(C)(5)] \$248.68
(6)	Data Capability - Per Point of Termination	[Ref. Section 7, Part 7.3.5(C)(6)] \$1.60
(7)	Telephoto Capability - Per Point of Termination	[Ref. Section 7, Part 7.3.5(C)(7)] \$3.19
(8)	Signaling Capability - Per Point of Termination - In lieu of ++, substitute appropriate two digit code from following list to specify type of signaling:	[Ref. Section 7, Part 7.3.5(C)(8)] \$14.02 AB, AC, CT, DX, CY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV, SF

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ACCESS SERVICE

15.	<u>Rates and Charges</u> (Cont'd)		(Z)
15.4	<u>Special Access Voice Grade Service</u> (Cont'd)		
(C)	<u>Optional Features and Functions</u> (Cont'd) [Ref. Section 7, Part 7.3.5(C)]		
		<u>Monthly Rates</u>	
(9)	Selective Signaling Arrangement - Per Arrangement	[Ref. Section 7, part 7.3.5(C)(9)] \$15.92	
(10)	Transfer Arrangement (Key Activated* or Dial Up**) - Per Four Port Arrangement, including control circuit termination***	[Ref. Section 7, Part 7.3.5(C)(10)] \$3.41	
	- Per Five Port Arrangement, including control circuit termination***	\$7.76	
*	The key activated control circuit is rated as a Metallic Circuit Termination and Circuit Mileage, if applicable.		
**	The Dial-Up option requires the customer to purchase the Controller Arrangement from Section 13 preceding.		
***	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.		(Z)

ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.5 Special Access Program Audio Service (Ref. Section 7, Part 7.4.5)

	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
(A) Circuit Termination - Per Point of Termination	[Ref. Section 7, Part 7.4.5(A)]	
- 200 to 3500 Hz	\$33.22	\$152.00
- 100 to 5000 Hz	89.39	152.00
- 50 to 8000 Hz	89.39	152.00
- 50 to 15000 Hz	89.39	152.00
	<u>Daily Rates*</u>	
- 200 to 3500 Hz	\$3.32	\$152.00
- 100 to 5000 Hz	8.94	152.00
- 50 to 8000 Hz	8.94	152.00
- 50 to 15000 Hz	8.94	152.00

*Daily Rates will be topped and maximum rates derived as set forth in 7.2.3(A) preceding.

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.5 Special Access Program Audio Service (Cont'd) (Ref. Section 7, Part 7.4.5)

Monthly Rates

(B) Circuit Mileage [Ref. Section 7, Part 7.4.5(B)]

- Fixed	
- 200 to 3500 Hz	\$14.09
- 100 to 5000 Hz	28.18
- 50 to 8000 Hz	42.27
- 50 to 15000 Hz	56.37
- Per Mile	
- 200 to 3500 Hz	\$2.41
- 100 to 5000 Hz	4.83
- 50 to 8000 Hz	7.84
- 50 to 15000 Hz	10.26

Daily Rates*

Circuit Mileage	
- Fixed	
- 200 to 3500 Hz	\$1.41
- 100 to 5000 Hz	2.82
- 50 to 8000 Hz	4.23
- 50 to 15000 Hz	5.64

*Daily Rates will be topped and maximum rates derived as set forth in 7.2.3(A) preceding.

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(Z)

ACCESS SERVICE

15.	<u>Rates and Charges</u> (Cont'd)		
15.5	<u>Special Access Program Audio Service</u> (Cont'd) (Ref. Section 7, Part 7.4.5)		
			<u>Daily Rates*</u>
(B)	Per Mile (Cont'd)	[Ref. Section 7, Part 7.4.5(B)]	
	- 200 to 3500 Hz		\$ 0.24
	- 100 to 5000 Hz		0.48
	- 50 to 8000 Hz		0.78
	- 50 to 15000 Hz		1.03
(C)	<u>Optional Features and Functions</u>	[Ref. Section 7, Part 7.4.5(C)]	
	Rates and charges for the Optional Features and Functions of Program Audio Service listed in this section apply to all jurisdictions.		
		<u>Monthly</u>	<u>Daily*</u>
		<u>Rates</u>	<u>Rates</u>
	- Bridging, Distribution Amplifier		
	- Per port	\$21.71	\$2.18
	- Gain Conditioning		
	- Per Service	6.45	0.63
	- Stereo		
	- Per Service	0.00	0.00

* Daily Rates will be topped and maximum rates derived as set forth in 7.2.3(A) preceding.

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.6 Special Access Video Service [Ref. Section 7, Part 7.5.4(A)]

(A) Circuit Termination
- Per Point of Termination

Monthly Rates and Nonrecurring Charges for all jurisdictions will be determined on an Individual Case Basis.

Available frequency bandwidths format is as follows:

Frequency
Bandwidths

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

(Z)

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.6 Special Access Video Service (Cont'd) [Ref. Section 7, Part 7.5.4(B)]

(B) Circuit Mileage

Fixed and Per Mile Monthly Rates for all jurisdictions will be determined on an Individual Case Basis.

Available mileage bands format is as follows:

Mileage
Bands

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

(Z)

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ACCESS SERVICE

15.	<u>Rates and Charges</u> (Cont'd)		(Z)
15.7	<u>Special Access Digital Data Service</u> (Ref. Section 7, Part 7.6.5)		
		<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
(A)	Circuit Termination - Per Point of Termination	[Ref. Section 7, Part 7.6.5(A)]	
	- 2.4 Kbps	\$55.73	\$242.00
	- 4.8 Kbps	55.73	242.00
	- 9.6 Kbps	55.73	242.00
	- 56.0 Kbps	55.73	242.00
(B)	Circuit Mileage - Fixed	[Ref. Section 7, Part 7.6.5(B)]	
	- 2.4 Kbps	\$14.09	
	- 4.8 Kbps	14.09	
	- 9.6 Kbps	14.09	
	- 56.0 Kbps	28.18	
	- Per Mile		
	- 2.4 Kbps	3.00	
	- 4.8 Kbps	3.00	
	- 9.6 Kbps	3.00	
	- 56.0 Kbps	6.00	
			(Z)

ACCESS SERVICE

15. Rates and Charges (Cont'd)
- 15.7 Special Access Digital Data Service (Cont'd) (Ref. Section 7, Part 7.6.5)
- (C) Optional Features and Functions [Ref. Section 7, Part 7.6.5(C)]
- Monthly Rates and Nonrecurring Charges for the Optional Features and Functions of Digital Data Service listed in this section apply to all jurisdictions.

	<u>Optional Features and Functions</u>	<u>Monthly Rates</u>
(1)	Bridging - Per Port	\$3.37
(2)	Loop Transfer Arrangement (Key Activated* or Dial-Up*80 - Per Four-Port Arrangement***	6.75

* The key activated control is rated as a Metallic Circuit Termination and Circuit Mileage, if applicable.

** The Dial-Up option requires the customer to purchase the Controller Arrangement from 8.7 preceding.

*** 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.

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ACCESS SERVICE

15.	<u>Rates and Charges</u> (Cont'd)	
15.7	<u>Special Access Digital Data Service</u> (Cont'd) (Ref. Section 7, Part 7.6.5)	
(C)	<u>Optional Features and Functions</u> [Ref. Section 7, Part 7.6.5(C)]	
	Monthly Rates and Nonrecurring Charges for the Optional Features and Functions of Digital Data Service listed in this section apply to all jurisdictions.	
	<u>Optional Features and Functions</u>	<u>Monthly Rates</u>
(1)	Bridging - Per Port	\$3.37
(2)	Loop Transfer Arrangement (Key Activated* or Dial-Up*80 - Per Four-Port Arrangement***	6.75
*	The key activated control is rated as a Metallic Circuit Termination and Circuit Mileage, if applicable.	
**	The Dial-Up option requires the customer to purchase the Controller Arrangement from 8.7 preceding.	
***	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.	

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.8 Special Access High Capacity Service (Cont'd) [Ref. Section 7, Part 7.7.5(A)]

	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
(A) <u>Circuit Termination</u>		
- Per Point of Termination		
- 1.544 Mbps	\$217.71	\$318.00
- Per Point of Termination	ICB	ICB
- 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.

Available frequency bandwidths for year 1-1-89 to 12-31-89 are as follows:

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

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(Z)

ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.8 Special Access High Capacity Service (Cont'd) [Ref. Section 7, Part 7.7.5(B)]

Monthly Rates

(B) Circuit Mileage (See Section 15, Part 15.8)

- 1.544 Mbps

Fixed

\$178.15

- Per Mile

31.91

Circuit Mileage

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 formats for year 1-1-89 to 12-31-91 are as follows:

Frequency
Bandwidths

64 Kbps

3.152 Mbps

6.312 Mbps

44.736 Mbps

274.176 Mbps

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ACCESS SERVICE

15. Rates and Charges (Cont'd)
- 15.8 Special Access High Capacity Service (Cont'd) (Ref. Section 7, Part 7.7)
- (C) Optional Features and Functions [Ref. Section 7, Part 7.7.5(C)]
- Rates and charges for the Optional Features and Functions of High Capacity Service listed in this section apply to all jurisdictions.

	<u>Monthly Rates</u> [Ref. Section 7, Part 7.7.5(C)(1)]	<u>Nonrecurring Charge</u>
(1) Multiplexing DS4 to DS1 - Per arrangement	ICB	ICB
DS3 to DS1 - Per arrangement	ICB	ICB
DS2 to DS1 - Per arrangement	ICB	ICB
DS1C to DS1 - Per arrangement	ICB	ICB
DS1 to Voice* - Per arrangement	ICB	ICB
DS1 to DS0 - Per arrangement	ICB	ICB
DS0 to Subrate - Per arrangement Up to 20 2.4 Kbps services	ICB	ICB
Up to 10.4 Kbps services	ICB	ICB
Up to 5 9.6 Kbps services	ICB	ICB

* A circuit of this DS1 to the hub can be used for Digital Data service.

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ACCESS SERVICE

15.	<u>Rates and Charges</u> (Cont'd)		
15.8	<u>Special Access High Capacity Service</u> (Cont'd) (Ref. Section 7, Part 7.7.5(C))		
(C)	<u>Optional Features and Functions</u> (Cont'd) [Ref. Section 7, Part 7.7.5(C)]		
		<u>Monthly Rates</u>	
(2)	Automatic Loop Transfer - Per arrangement*	[Ref. Section 7, Part 7.7.5(C)(2)]	ICB
(3)	Transfer Arrangement (Key Activated** or Dial-Up***) - Per Four-port arrangement, including control channel termination****)	[Ref. Section 7, Part 7.7.5(C)(3)]	ICB
(D)	Network Channel Terminating Equipment (NCTE)# - Per Point of Termination where provided - 1.544 Mbps	[Ref. Section 7, Part 7.7.5(D)]	ICB
	- Automatic Loop Transfer		ICB
*	An additional Circuit Termination charge will apply whenever the spare line is provided as a let to the customer premises.		
**	The key activated control circuit is rated as a Metallic Circuit Termination.		
***	The Dial-Up option requires the customer to purchase the Controller Arrangement from Section 13 preceding.		
****	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.		
#	NCTE will only be provided under tariff if it existed in the Telephone Company's inventory as of November 18, 1983.		

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.9 Additional Engineering (Ref. Section 8, Part 8.1.1)

The charges for Additional Engineering are as follows:

Per Engineer, Per Hour, or Fraction Thereof

<u>Basic Time</u>	<u>Overtime</u>	<u>Premium Time</u>
\$35.91	\$53.87	\$71.82

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.10 Additional Labor (Ref. Section 8, Part 8.2.6)

The charges for additional labor are as follows:

<u>Per Technician, Per Hour, or Fraction Thereof</u>		
<u>Basic Time</u>	<u>Overtime*</u>	<u>Premium Time*</u>
\$31.46	\$47.19	\$62.92

* 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.

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.11 Additional Testing [Ref. Section 8, Part 8.4(C)]

The charges for Additional Testing are as follows:

Per Technician, Per Hour, or Fraction Thereof

<u>Basic Time</u>	<u>Overtime*</u>	<u>Premium Time*</u>
\$31.46	\$47.19	\$62.92

* 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.

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.12 Presubscription Charge [Ref. Section 8, Part 8.5(E)(6)]

The nonrecurring charge for Presubscription is as follows:

<u>Presubscription, per</u> <u>Telephone Exchange</u> <u>Service Line or Trunk</u>	<u>Nonrecurring Change</u>
	\$5.00

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ACCESS SERVICE

15. Rates and Charges

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15.13 Telecommunications Service Priority
 (See Section 8, Part 8.6)

	<u>NON-RECURRING CHARGE</u>	<u>MONTHLY RATE RATE</u>
Priority Installation includes System Development Verifications, and Confirmation		
- Prime Service Vendor	\$83.95	----
- Subcontractor	83.95	----
Priority Restoration includes system Development Verification, and Confirmation		
- Prime Service Vendor	\$83.95	----
- Subcontractor	83.95	----
Priority Restoration Level Change Only includes Verification, and Confirmation		
- Prime Service Vendor	\$ 8.75	----
- Subcontractor	8.75	----
Priority Restoration Maintenance and Administration includes reconciliation		
- Prime Service Vendor	----	\$3.40
- Subcontractor	----	3.40

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DATE ISSUED: September 18, 2012
 EFFECTIVE DATE: October 18, 2012
 KENNETH MASON, VICE PRESIDENT
 GOVERNMENT & REGULATORY AFFAIRS

SECTION BELOW RESERVED FOR
 ACC TARIFF APPROVAL

ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.14 Individual Case Filing (Ref. Section 7, Part 7.8)

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

15.15 Advanced Data Applications

15.15.1 Frame Relay Service

		<u>Monthly Charge</u>	<u>Nonrecurring Charge</u>
(A)	(1) Network to Network Interface (NNI)- DS1 Port 1.536 Mbps DS-3	\$475.00 \$1,000.00	\$400.00 \$1,050.00
	Network to Network Interface NNI – 1 YR Term Payment Plan (TPP) DS1 Port 1.536 Mbps DS-3	404.00 850.00	400.00 1,050.00
	Network to Network Interface NNI – 2 YR Term Payment Plan (TPP) DS1 Port 1.536 Mbps DS-3	390.00 820.00	400.00 1,050.00
	Network to Network Interface NNI – 3 YR Term Payment Plan (TPP) DS1 Port 1.536 Mbps DS-3	356.00 750.00	400.00 1,050.00
	(2) Service Order Charge Per Order		130.23
(B)	Administrative Charge		50.00
(C)	Expedite Order Charge		250.00

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.15 Advanced Data Applications (Cont'd)

15.15.1 Frame Relay Service (Cont'd)

		<u>Monthly Charge</u>	<u>Nonrecurring Charge</u>
(D)	(1) Frame Relay Access Connection		
	56 Kbps	135.00	204.23
	1.536 Mbps	200.00	916.12
	DS-3	1,800.00	3,410.00
	(2) Channel Mileage Facility Per Mile		
	56 Kbps	1.50	
	1.536 Mbps	15.00	
	DS-3	142.00	
(E)	UNI Connection Month to Month		
	(1) UNI Port Connection		
	56 Kbps	25.00	200.00
	64 Kbps	25.00	200.00
	128 Kbps	60.00	200.00
	256 Kbps	65.00	300.00
	384 Kbps	70.00	300.00
	512 Kbps	75.00	400.00
	768 Kbps	80.00	400.00
	1.536 Mbps	90.00	400.00
	DS-3	700.00	1,050.00
	(2) UNI Port Connection 1 YR Term Payment Plan (TPP)		
(E)	56 Kbps	23.00	200.00
	64 Kbps	23.00	200.00
	128 Kbps	55.00	200.00
	256 Kbps	60.00	300.00
	384 Kbps	64.00	300.00
	512 Kbps	69.00	400.00
	768 Kbps	74.00	400.00
	1.536 MBps	77.00	400.00
	DS-3	595.00	1,050.00
	(3) UNI Port Connection 2 YR Term Payment Plan (TPP)		
	56 Kbps	22.50	200.00
	64 Kbps	22.50	200.00
	128 Kbps	54.00	200.00
	256 Kbps	58.50	300.00
	384 Kbps	63.00	300.00
	512 Kbps	67.50	400.00
	768 Kbps	72.00	400.00
	1.536 MBps	74.00	400.00
	DS-3	574.00	1,050.00

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DATE ISSUED: September 18, 2012
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SECTION BELOW RESERVED FOR
ACC TARIFF APPROVAL

ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.15 Advanced Data Applications (Cont'd)

15.15.1 Frame Relay Service (Cont'd)

		<u>Monthly Charge</u>	<u>Nonrecurring Charge</u>
(E)	(4) UNI Port Connection 3 YR Term Payment Plan (TPP) (Cont'd)		
	56 Kbps	21.50	200.00
	64 Kbps	21.50	200.00
	128 Kbps	51.60	200.00
	256 Kbps	55.90	300.00
	384 Kbps	60.20	300.00
	512 Kbps	64.50	400.00
	768 Kbps	68.80	400.00
	1.536 MBps	68.00	400.00
	DS-3	525.00	1,050.00
(F)	Optional UNI Features		
	(1) Committed Information Rate, per PVC Month to Month		
	14 Kbps	2.00	12.00
	16 Kbps	2.00	12.00
	28 Kbps	3.00	12.00
	32 Kbps	4.00	12.00
	56 / 64 Kbps	5.00	12.00
	128 Kbps	6.00	12.00
	192 Kbps	7.00	12.00
	256 Kbps	9.00	12.00
	320 Kbps	10.00	12.00
	384 Kbps	12.00	12.00
	512 Kbps	25.00	12.00
	768 Kbps	28.00	12.00
	1.024 MBps	32.00	12.00
	1.536 MBps	75.00	12.00
	5 Mbps	125.00	100.00
	10 Mbps	200.00	100.00
	15 Mbps	275.00	100.00
	20 Mbps	350.00	100.00
	25 Mbps	425.00	100.00
	30 Mbps	500.00	100.00
	35 Mbps	575.00	100.00

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.15 Advanced Data Applications (Cont'd)

15.15.1 Frame Relay Service (Cont'd)

	<u>Monthly Charge</u>	<u>Nonrecurring Charge</u>
(F) (2) Committed Information Rate, per PVC 1YR Term Payment Plan (TPP)		
14 Kbps	1.84	12.00
16 Kbps	2.76	12.00
28 Kbps	3.68	12.00
32 Kbps	3.68	12.00
56 / 64 Kbps	4.60	12.00
128 Kbps	5.52	12.00
192 Kbps	6.44	12.00
256 Kbps	8.28	12.00
320 Kbps	9.20	12.00
384 Kbps	11.04	12.00
512 Kbps	23.00	12.00
768 Kbps	25.76	12.00
1,024 MBps	29.44	12.00
1.536 MBps	69.00	12.00
5 Mbps	106.00	100.00
10 Mbps	170.00	100.00
15 Mbps	234.00	100.00
20 Mbps	298.00	100.00
25 Mbps	361.00	100.00
30 Mbps	425.00	100.00
35 Mbps	489.00	100.00
(3) Committed Information Rate, per PVC 2YR Term Payment Plan (TPP)		
14 Kbps	1.80	12.00
16 Kbps	2.70	12.00
28 Kbps	3.60	12.00
32 Kbps	3.60	12.00
56 / 64 Kbps	4.50	12.00
128 Kbps	5.40	12.00
192 Kbps	6.30	12.00
256 Kbps	8.10	12.00
320 Kbps	9.00	12.00
384 Kbps	10.80	12.00
512 Kbps	22.50	12.00
768 Kbps	25.20	12.00
1,024 MBps	28.80	12.00
1.536 MBps	62.00	12.00
5 Mbps	103.00	100.00
10 Mbps	164.00	100.00
15 Mbps	226.00	100.00
20 Mbps	287.00	100.00
25 Mbps	349.00	100.00
30 Mbps	410.00	100.00
35 Mbps	472.00	100.00

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ACCESS SERVICE

15. Rates and Charges (Cont'd)

15.15 Advanced Data Applications (Cont'd)

15.15.1 Frame Relay Service (Cont'd)

	<u>Monthly Charge</u>	<u>Nonrecurring Charge</u>
(F) (4) Committed Information Rate, per PVC 3YR Term Payment Plan (TPP)		
14 Kbps	1.72	12.00
16 Kbps	2.58	12.00
28 Kbps	3.44	12.00
32 Kbps	3.44	12.00
56 / 64 Kbps	4.30	12.00
128 Kbps	5.16	12.00
192 Kbps	6.02	12.00
256 Kbps	7.74	12.00
320 Kbps	8.60	12.00
384 Kbps	10.32	12.00
512 Kbps	21.50	12.00
768 Kbps	24.08	12.00
1.024 MBps	27.52	12.00
1.536 MBps	56.00	12.00
5 Mbps	94.00	100.00
10 Mbps	150.00	100.00
15 Mbps	206.00	100.00
20 Mbps	263.00	100.00
25 Mbps	319.00	100.00
30 Mbps	375.00	100.00
35 Mbps	431.00	100.00

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ACCESS SERVICE

16. Arizona Universal Service Fund

16.1 Applicability

The surcharges set forth below relate to funding the Arizona Universal Service Fund (AUSF) and are in addition to the rates and charges for access service, toll service and local service set forth in the applicable tariffs. If the Company determines it has collected its annually assessed amount prior to the end of the calendar year, it will suspend collection of these surcharges for the remainder of that year, subject to any subsequent adjustment necessitated by Arizona Corporation Commission Order.

16.2 Elements and Rates

16.2.1 Access Portion Element

The surcharge amounts are per A.C.C. R-14-2-1201 through R14-2-1217. As the Arizona Corporation Commission issues orders, which increase or decrease the requirement for AUSF funding, this surcharge amount(s) will be adjusted accordingly.

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