

Effective: August 1, 1991

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Metallic Service

7.3.1 Basic Circuit Description

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

7.3.2 Technical Specifications Packages

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

The technical specifications are delineated in Technical Publication TR-NPL-000336.

7.3.3 Channel Interfaces

Compatible channel interfaces are set forth in 9. following.

7.3.4 Optional Features and Functions

(1) Central Office Bridging Capability

- (a) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer premises.
- (b) Series Bridging of up to 26 customer premises.

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

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

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Director-Tariffs
600 Hidden Ridge
Irving, Texas 75038
Issued: August 24, 2000

TARIFF FCC NO. 1
36th Revised Page 295
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Effective: September 1, 2000

ACCESS SERVICE**7. Special Access Service (Cont'd)****7.3 Metallic Services (Cont'd)****7.3.5 Rates and Charges**

- (A) Circuit Termination
- Per Point of Termination
- USOC - TMECS

<u>Jurisdiction</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	
Alabama	\$32.70	\$200.00	
Arizona - Western	16.16	200.00	
California	24.56	200.00	(D)(X)
Illinois	18.46	200.00	
Indiana	30.40	200.00	
Kentucky	33.52	200.00	
Missouri	30.42	200.00	(D)(X)
Nevada	35.60	200.00	
N Mexico - VALOR Telecom	26.87	200.00	(C)(X)
N Carolina	28.49	200.00	
Pennsylvania	14.42	200.00	
Texas	29.80	200.00	
Texas - VALOR Telecom	29.80	200.00	(N)(X)
Virginia	25.58	200.00	
Washington	26.51	200.00	

(X) Issued under authority of Special Permission No. 00-077 of the FCC.

(This page filed under Transmittal No. 330.)

GTE SYSTEM TELEPHONE COMPANIES

Director-Tariffs
600 Hidden Ridge
Irving, Texas 75038
Issued: February 1, 2001

TARIFF FCC NO. 1

37th Revised Page 296
Cancels 36th Revised Page 296

Effective: February 16, 2001

ACCESS SERVICE**7. Special Access Service (Cont'd)****7.3 Metallic Service (Cont'd)****7.3.5 Rates and Charges (Cont'd)****(B) Circuit Mileage**

<u>Jurisdiction</u> (USOC)	Monthly Rates <u>Fixed</u> (TRG)	Monthly Rates <u>Per Mile</u> (1LFSX)
Alabama	\$16.13	\$1.81
Arizona - Western	17.21	.90
California	19.66	1.20
Illinois	17.00	1.26
Indiana	15.60	2.14
Kentucky	22.00	1.24
Missouri	12.50	2.00
Nevada	16.80	2.50
N Carolina	12.60	1.05
Pennsylvania	3.65	1.08
Texas	11.78	2.30
Virginia	9.61	2.10
Washington	27.01	4.20

(D)

(D)

Effective: September 2, 1993

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Metallic Services (Cont'd)

7.3.5 Rates and Charges (Cont'd)

(C) Optional Features and Functions

- (1) Bridging
- Per Port
- USOC - BCNM3, Three Premises Bridging
- BCNMS, Series Bridging

<u>Jurisdiction</u>	<u>Three Premises Bridging Monthly Rate</u>	<u>Series Bridging Monthly Rate</u>	
Rates listed here apply to all jurisdictions of the Issuing Carriers listed on Title Pages 2, 3 and 4.	\$8.00	\$8.00	(I)

Effective: August 1, 1991

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Telegraph Grade Service

7.4.1 Basic Service Description

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

7.4.2 Technical Specifications Packages

Parameter

Package TG-

Telegraph Distortion

<u>C</u>	<u>1</u>	<u>2</u>
X	X	X

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

7.4.3 Channel Interfaces

Compatible channel interfaces are set forth in 9. following.

7.4.4 Optional Features and Functions

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

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

Telegraph Bridging

Available with Technical Specifications Package TG-

<u>C</u>	<u>1</u>	<u>2</u>
X	X	X

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Director-Tariffs
600 Hidden Ridge
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Issued: November 29, 2000

TARIFF FCC NO. 1
36th Revised Page 299
Cancels 35th Revised Page 299

Effective: December 2, 2000

ACCESS SERVICE**7. Special Access Service (Cont'd)****7.4 Telegraph Grade Service (Cont'd)****7.4.5 Rates and Charges**

- (A) Circuit Termination
- Per Point of Termination
- USOC - TME2X, 2-Wire

<u>Jurisdiction</u>	<u>2-Wire Monthly Rates</u>	<u>2-Wire Nonrecurring Charges</u>	
Alabama	\$32.70	\$200.00	
Arizona - Western	16.16	200.00	
California	24.56	200.00	
Illinois	18.46	200.00	
Indiana	30.40	200.00	
Kentucky	33.52	200.00	
Missouri	30.42	200.00	
Nevada	35.60	200.00	
			(D)(X)
N Carolina	28.49	200.00	
Pennsylvania	14.42	200.00	
Texas	29.80	200.00	
			(D)(X)
Virginia	25.58	200.00	
Washington	26.51	200.00	

(X) Issued under authority of Special Permission No. 00-0114 of the FCC.

(This page filed under Transmittal No. 347.)

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Director-Tariffs
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 Irving, Texas 75038
 Issued: November 29, 2000

TARIFF FCC NO. 1
 36th Revised Page 300
 Cancels 35th Revised Page 300

Effective: December 2, 2000

ACCESS SERVICE**7. Special Access Service (Cont'd)****7.4 Telegraph Grade Service (Cont'd)****7.4.5 Rates and Charges (Cont'd)**

- (A) Circuit Termination (Cont'd)
 - Per Point of Termination
 - USOC - TME4X, 4-Wire

<u>Jurisdiction</u>	<u>4-Wire Monthly Rates</u>	<u>4-Wire Nonrecurring Charges</u>	
Alabama	\$49.11	\$200.00	
Arizona - Western	18.31	200.00	
California	34.80	200.00	
Illinois	26.80	200.00	
Indiana	44.45	200.00	
Kentucky	47.99	200.00	
Missouri	36.50	200.00	
Nevada	56.00	200.00	
			(D)(X)
N Carolina	37.30	200.00	
Pennsylvania	20.95	200.00	
Texas	42.50	200.00	
			(D)(X)
Virginia	38.00	200.00	
Washington	34.50	200.00	

(X) Issued under authority of Special Permission No. 00-0114 of the FCC.

(This page filed under Transmittal No. 347.)

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Director-Tariffs
 600 Hidden Ridge
 Irving, Texas 75038
 Issued: November 29, 2000

TARIFF FCC NO. 1
 36th Revised Page 301
 Cancels 35th Revised Page 301

Effective: December 2, 2000

ACCESS SERVICE**7. Special Access Service (Cont'd)****7.4 Telegraph Grade Service (Cont'd)****7.4.5 Rates and Charges (Cont'd)**

(B) Circuit Mileage
 - Per Point of Termination

<u>Jurisdiction</u> (USOC)	<u>Monthly</u> <u>Rates</u> <u>-Fixed</u> (TRG)	<u>Monthly</u> <u>Rates</u> <u>- Per Mile</u> (1LFSX)	
Alabama	\$16.13	\$1.81	
Arizona - Western	17.21	.90	
California	19.66	1.20	
Illinois	17.00	1.26	
Indiana	15.60	2.14	
Kentucky	22.00	1.24	
Missouri	12.50	2.00	
Nevada	16.80	2.50	
N Carolina	12.60	1.05	(D)(X)
Pennsylvania	3.65	1.08	
Texas	11.78	2.30	
Virginia	9.61	2.10	(D)(X)
Washington	27.01	4.20	

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(This page filed under Transmittal No. 347.)

GTE SYSTEM TELEPHONE COMPANIES
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Issued: July 19, 1993

TARIFF FCC NO. 1
1st Revised Page 302
Cancels Original Page 302

Effective: September 2, 1993

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Telegraph Service (Cont'd)

7.4.5 Rates and Charges (Cont'd)

(C) Optional Features and Functions

- (1) Telegraph Bridging
- Per Port
- USOC - BCNT2, 2-Wire
BCNT4, 4-Wire

Jurisdiction
Rate

2-Wire
Bridging
Monthly Rate

4-Wire
Bridging
Monthly

Rates listed here apply to
all jurisdictions of the
Issuing Carriers listed on
Title Pages 2, 3 and 4.

\$8.00

\$8.00

(I)

GTE SYSTEM TELEPHONE COMPANIES
Director-Pricing and Tariffs (T)
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Issued: January 24, 1996

TARIFF FCC NO. 1
2nd Revised Page 303
Cancels 1st Revised Page 303

Effective: March 1, 1996

7. Special Access Service (Cont'd)

7.5 Voice Grade Service

7.5.1 Basic Circuit Description

A Voice Grade Circuit is a circuit which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Effective 2-wire and 4-wire circuits are available as an Optional Feature and Function. Voice Grade circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

Voice Grade Service may be ordered in conjunction with Switched Access services as set forth in Section 6.3.2 preceding to provide access for a customer's communications service (e.g., WATS, 800, 888, (T) or WATS-type service). When the customer orders the Switched Access Interface Arrangement, Voice Grade Circuits provide voice frequency transmission capability 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-SI in 7.5.5 following.

Effective: August 8, 1992

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Voice Grade Service (Cont'd)

7.5.2 Technical Specifications Packages

Parameter	Package VG-														(T)
	C*	1	2	3	4	5	6	7	8	9	10	11	12	SI	
Attenuation															
Distortion	X	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	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	X
Frequency Shift	X						X	X	X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X	X	X
Intermodulation															
Distortion	X						X	X	X	X	X	X			X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain															
Hits, and Dropouts	X														
Phase Jitter	X						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	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.

Effective: August 1, 1991

ACCESS SERVICE**7. Special Access Service (Cont'd)****7.5 Voice Grade Service (Cont'd)****7.5.3 Channel Interfaces**

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

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

Compatible channel interfaces are set forth in 9. following.

7.5.4 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 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 and Data Capability may be combined on the same service.

Effective: August 1, 1991

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Voice Grade Service (Cont'd)

7.5.4 Optional Features and Functions (Cont'd)

(3) Conditioning (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 envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-NPL-000335.

(b) Improved C-Type Conditioning

Improved C-Type Conditioning options are provided in conjunction with C-Type Conditioning at the rates set forth in Section 7.5.5 following. The C-Type Conditioning rate shall apply only once regardless if one or both of the following Improved Options are ordered.

(i) Improved Attenuation Distortion

Improved Attenuation Distortion upgrades the frequency versus loss limits of the channel. The technical specifications for Improved Attenuation Distortion are delineated in Technical Reference TR-NPL-000335. This option is provided in conjunction with C-Type conditioning.

(ii) Improved Envelope Delay Distortion

Improved Envelope Delay Distortion upgrades the frequency versus delay response limits of the channel. The technical specifications for Improved Envelope Delay Distortion are delineated in Technical Reference TR-NPL-000335. This option is provided in conjunction with C-Type conditioning.

(c) Sealing Current

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

Effective: August 1, 1991

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Voice Grade Service (Cont'd)

7.5.4 Optional Features and Functions (Cont'd)

(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.
- (b) On Effective Four-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.

Effective: August 1, 1991

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Voice Grade Service (Cont'd)

7.5.4 Optional Features and Functions (Cont'd)

(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 services or multipoint services.

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

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

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

(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:

Attenuation Distortion (1004Hz Reference)

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

Envelope Delay Distortion

<u>Frequency Range (Hz)</u>	<u>Variation (mcs)</u>
1000-2600	110
800-2800	180

Effective: August 1, 1991

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Voice Grade Service (Cont'd)

7.5.4 Optional Features and Functions (Cont'd)

(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 is required to operate the transfer arrangement. A spare circuit, if required, is not included as part of the option.

(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.

Effective: August 8, 1992

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Voice Grade Service (Cont'd)

7.5.4 Optional Features and Functions (Cont'd)

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

	Available with Technical Specifications Package VG-													SI (T)
	C	1	2	3	4	5	6	7	8	9	10	11	12	
C-Type Conditioning	X					X	X	X	X	X	X			
Central Office														
Bridging Capability	X		X			X	X				X	X	X	
Central Office														
Multiplexing	X						X							
Customer Specified														
Premises Receive														
Level	X		X	X				X	X	X				
Data Capability	X						X	X			X			
Improved Return Loss														
-For Effective Four-														
Wire Transmission	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-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				#
Transfer Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X	

(#) Signaling is provided in conjunction with Switched Access as set forth in 6.3.2(T) preceding. (T)

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Issued: November 29, 2000

TARIFF FCC NO. 1
36th Revised Page 311
Cancels 35th Revised Page 311

Effective: December 2, 2000

ACCESS SERVICE**7. Special Access Service (Cont'd)****7.5 Voice Grade Service (Cont'd)****7.5.5 Rates and Charges**

- (A) Circuit Termination
- Per Point of Termination
- USOC - TME2X, 2-Wire

<u>Jurisdiction</u>	<u>2-Wire Monthly Rates</u>	<u>2-Wire Nonrecurring Charges</u>	
Alabama	\$32.70	\$200.00	
Arizona - Western	16.16	200.00	
California	24.56	200.00	
Illinois	18.46	200.00	
Indiana	30.40	200.00	
Kentucky	33.52	200.00	
Missouri	30.42	200.00	
Nevada	35.60	200.00	
			(D)(X)
N Carolina	28.49	200.00	
Pennsylvania	14.42	200.00	
Texas	29.80	200.00	
			(D)(X)
Virginia	25.58	200.00	
Washington	26.51	200.00	

(X) Issued under authority of Special Permission No. 00-0114 of the FCC.

(This page filed under Transmittal No. 347.)

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Director-Tariffs
600 Hidden Ridge
Irving, Texas 75038
Issued: November 29, 2000

TARIFF FCC NO. 1
35th Revised Page 312
Cancels 34th Revised Page 312

Effective: December 2, 2000

ACCESS SERVICE**7. Special Access Service (Cont'd)****7.5 Voice Grade Service (Cont'd)****7.5.5 Rates and Charges (Cont'd)**

- (A) Circuit Termination (Cont'd)
- Per Point of Termination
- USOC - TME4X, 4-Wire

<u>Jurisdiction</u>	<u>4-Wire Monthly Rates</u>	<u>4-Wire Nonrecurring Charges</u>	
Alabama	\$49.11	\$200.00	
Arizona - Western	18.31	200.00	
California	34.80	200.00	
Illinois	26.80	200.00	
Indiana	44.45	200.00	
Kentucky	47.99	200.00	
Missouri	36.50	200.00	
Nevada	56.00	200.00	
			(D)(X)
N Carolina	37.30	200.00	
Pennsylvania	20.95	200.00	
Texas	42.50	200.00	
			(D)(X)
Virginia	38.00	200.00	
Washington	34.50	200.00	

(X) Issued under authority of Special Permission No. 00-0114 of the FCC.

(This page filed under Transmittal 347.)

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Director-Tariffs
600 Hidden Ridge
Irving, Texas 75038
Issued: November 29, 2000

TARIFF FCC NO. 1
36th Revised Page 313
Cancels 35th Revised Page 313

Effective: December 2, 2000

ACCESS SERVICE**7. Special Access Service (Cont'd)****7.5 Voice Grade Service (Cont'd)****7.5.5 Rates and Charges (Cont'd)**

(B) Circuit Mileage

<u>Jurisdiction</u> (USOC)	Monthly Rates <u>- Fixed</u> (TRG)	Monthly Rates <u>- Per Mile</u> (1LFSX)	
Alabama	\$16.13	\$1.81	
Arizona - Western	17.21	0.90	
California	19.66	1.20	
Illinois	17.00	1.26	
Indiana	15.60	2.14	
Kentucky	22.00	1.24	
Missouri	12.50	2.00	
Nevada	16.80	2.50	
			(D)(X)
N Carolina	12.60	1.05	
Pennsylvania	3.65	1.08	
Texas	11.78	2.30	
			(D)(X)
Virginia	9.61	2.10	
Washington	27.01	4.20	

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(This page filed under Transmittal 347.)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Voice Grade Service (Cont'd)

7.5.5 Rates and Charges (Cont'd)

(C) Optional Features and Functions

Rates and charges for the Optional Features and Functions of Voice Grade Service listed in this section apply to all jurisdictions of the Issuing Carriers listed on Title Page 2 and Title Page 3.

(1) Bridging

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
(a) <u>Voice Bridging</u>			
- Per port			
- Two-Wire	BCNV2	\$8.00 (I)	None
- Four-Wire	BCNV4	8.00 (I)	None
(b) <u>Data Bridging</u>			
- Per Port			
- Two-Wire	BCND2	8.00 (I)	None
- Four-Wire	BCND4	8.00 (I)	None
(c) <u>Telephoto Bridging</u>			
- Per port			
- Two-Wire	BCNF2	8.00 (I)	None
- Four-Wire	BCNF4	8.00 (I)	None
(d) <u>DATAPHONE Select-A-Station Bridging</u>			
Sequential Arrangement Ports			
- Per Circuit Connected			
- 2-Wire	DQ2	21.23	None
- 4-Wire	DQ4	112.80	None
Addressable Arrangement Ports			
- Per Circuit Connected			
- 2-Wire	KQ2	22.76	None
- 4-Wire	KQ4	115.88	None

(This page filed under Transmittal No. 38.)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5. Voice Grade Service (Cont'd)

7.5.5 Rates and Charges (Cont'd)

	USOC	Monthly Rates	Nonrecurring Charges
(C) Optional Features and Functions (Cont'd)			
(1) Bridging (Cont'd)			
(e) <u>Telemetry and Alarm Bridging</u>			
Active Bridging Circuit Connections			
- Per Circuit Connected			
- Split Band	CNLRX	\$8.04	None
- Summation	BCNSA	1.37	None
Passive Bridging Circuit Connections			
- Per Circuit Connected	BCNTP	0.20	None
(2) Conditioning			
- Per Point of Termination			
(a) C - Type	X1CPT	11.12 (I)	None
(b) Improved C-Type Conditioning Options			
- Improved Attenuation Distortion	UHW	*	None
- Improved Envelope Delay Distortion	UHY	*	None
(c) Sealing Current	1HBPT	None	None
(3) Improved Return Loss for Effective Four-Wire Transmission			
- Per Point of Termination			
- Two-Wire	1RL2W	3.75	None
- Four-Wire	1RL4W	3.75	None
(4) Customer Specified Receive Level			
- Per Two-Wire Point of Termination	RLS	None	None

* Applied at the same rate as C-Type Conditioning regardless if one or both Improved C-Type options are ordered.

(This page filed under Transmittal No. 258.)

GTE SYSTEM TELEPHONE COMPANIES
Director-Tariffs (T)
600 Hidden Ridge
Irving, Texas 75038
Issued: June 16, 1999

TARIFF FCC NO. 1
5th Revised Page 316
Cancels 4th Revised Page 316

Effective: July 1, 1999

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Voice Grade Service (Cont'd)

7.5.5 Rates and Charges (Cont'd)

	USOC	Monthly Rates	Nonrecurring Charges
(C) Optional Features and Functions (Cont'd)			
(5) Multiplexing Voice to Telegraph Grade - Per Arrangement	MQX	\$216.75	\$200 00 (I)
(6) Data Capability - Per Point of Termination	XDCPT	2.00	0 00
(7) Telephoto Capability - Per Point of Termination	XTCPT	2.81	0.00
(8) Signaling Capability - Per Point of Termination	XSS++	16.51	None
- In lieu of ++, substitute appropriate two digit code from following list to specify type of signaling.			

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

(This page filed under Transmittal No. 283.)

GTE SYSTEM TELEPHONE COMPANIES

Director - Tariffs
 West Airfield Drive
 D/FW Airport, Texas 75261
 Issued: July 17, 1991

TARIFF FCC NO. 1
 Original Page 317

Effective: August 1, 1991

ACCESS SERVICE**7. Special Access Service (Cont'd)****7.5 Voice Grade Service (Cont'd)****7.5.5 Rates and Charges (Cont'd)**

		<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C)	Optional Features and Functions (Cont'd)			
(9)	Selective Signaling Arrangement			
-	Per Arrangement	USZ	\$32.11	None
(10)	Transfer Arrangement (Key Activated* or Dial Up**)			
-	Per Four Port Arrangement, including control circuit termination***	USY	3.00	None
-	Per Five Port Arrangement, including control circuit termination***	US5	6.85	None

* The key activated control circuit is rated as a Metallic Circuit Termination (use USOC T6EME in lieu of T6ECS) and Circuit Mileage, if applicable (use USOC 1L5MX in lieu of 1L5XX).

** The Dial-up option requires the customer to purchase the Controller Arrangement (USOC XTDDU) from 13.3.8 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.

Effective: August 1, 1991

ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Program Audio Service7.6.1 Basic Circuit Description

A Program Audio circuit is a circuit measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. The nominal frequency bandwidths are from 50 to 15000 Hz, from 200 to 3500 Hz, from 100 to 5000 Hz or from 50 to 8000 Hz. Only one-way transmission is provided. Program Audio circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

7.6.2 Technical Specifications Packages

<u>Parameter</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 TR-NPL-000337.

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