

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications

15.1 Contains Switched Access Service Options (which are comprised of Interface Groups, Supervisory Signaling, Entry Switch Receive Level and Local Transport Termination) and Transmission Specifications. 15.2 describes Special Access Service Network Channel (NC) codes and Network Channel Interface (NCI) codes.

15.1 Switched Access Service

Three Interface Groups are provided for terminating the Local Transport Entrance Facility at the customer's designated premises. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, and at the option of the customer, the Entrance Facility may be provided with optional features as set forth in 15.1.1 following.

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer designated 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 designated premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer designated premises are digital, then Telephone Company channel bank equipment must be placed at the customer designated premises in order to provide the voice frequency interface ordered by the customer.

15.1.1 Local Transport Interface Groups

Interface Groups are combinations of technical parameters which describe the Telephone Company handoff at the point of termination at the customer designated premises. The technical specifications concerning the available interface groups are set forth in (A) through (C) following.

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

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Group (Cont'd)

Interface Group 1 is provided with Type C Transmission Specifications, as set forth in 15.1.2(C) following, and Interface Groups 2, 6, and 9 are provided with Type A or B Transmission Specifications, as set forth respectively in 15.1.2(D) and (E) following, 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 designated premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups.

(A) Interface Group 1

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

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 provides only four-wire terminations.

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

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(A) Interface Group 1 (Cont'd)

The transmission path between the point of termination at the customer designated premises and the customer's serving wire center may be comprised of any form or configuration of plant 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.

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.

(B) Interface Group 2

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The transmission path between the point of termination at the customer designated premises and the customer's serving wire center may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

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

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(B) Interface Group 2 (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, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(C) Interface Group 6 and 9

Interface Group 6 and 9 provide digital transmission at the point of termination at the customer designated premises. The various interfaces are capable of transmitting electrical signals at the nominal bit rates illustrated following, with the capability to channelize 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 transmission paths of 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 a DS1 signal(s) in D3 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

<u>Interface Group Identification No.</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>	<u>Max. No. of Channelized Voice Freq. Trans. Paths</u>
6	1.544	DS1	24
9	44.736	DS3	672

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

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(D) Local Transport Optional Features

Where transmission facilities permit, the Telephone Company will, at the option of the customer, provide the following features in association with Local Transport. An Access Order Charge as specified in 17.4.1(A) following is applicable on a per order basis when nonchargeable optional features are added subsequent to the installation of service.

- Customer Specified Entry Switch Receive Level

Customer Specified Entry Switch Receive Level allows the customer to specify the receive transmission level at the first point of switching. The range of transmission levels which may be specified is described in Technical Reference TR-NPL-000334. This feature is available with Interface Groups 2 and 6 for Feature Groups A and B.

- Customer Specification of Local Transport Termination

Customer Specification of Local Transport Termination allows the customer to specify, for Feature Group B routed directly to an end office or access tandem, a four-wire termination of the Local Transport at the first point of switching in lieu of a Telephone Company selected two-wire termination. This option is available only when the Feature Group B arrangement is provided with Type B Transmission Specifications.

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15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(D) Local Transport Optional Features (Cont'd)

- Supervisory Signaling

Supervisory Signaling allows the customer to order an optional supervisory signaling arrangement for each transmission path provided where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability.

The Interface Groups, as described in (A) through (C) preceding, represent industry standard arrangements. Where transmission parameters permit, the customer may select the following optional signaling arrangements in place of the signaling arrangements standardly associated with the Interface Groups.

- For Interface Groups 1 and 2 associated with FGB, FGC or FGD

DX Supervisory Signalling,
E&M Type I Supervisory Signaling,
E&M Type II Supervisory Signaling, or
E&M Type III Supervisory Signaling

- For Interface Group 2 associated with FGB, FGC or FGD and in addition to the preceding

SF Supervisory Signaling, or Tandem Supervisory Signaling

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15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(D) Local Transport Optional Features (Cont'd)

- For Interface Group 6

This Interface Group may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling is available in Telephone Company central offices. Generally such signaling is available only where the first point of switching provides an analog (i.e., non digital) interface to the transport termination.

These optional Supervisory Signaling arrangements are not available in combination with the SS7 optional feature as described in 6.8.2(C)(2) preceding.

Additionally, in (E) following, there is a matrix of available Premises Interface Codes as a function of Interface Group, Telephone Company Switch Supervisory Signaling and Feature Group.

(E) Available Premises Interface Codes

Following is a matrix showing premises interface codes which are available for each Interface Group. Their availability is a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see the Parameter Codes and Options as set forth in 15.2.2(A) following.

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

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(E) 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	
	SS7	2NO2			X	X	
	2	LO, GO	4SF2	X			
		LO, GO	4SF3	X			
LO		4LS2	X				
LO		4LS3	X				
LO		6LS2	X				

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15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(E) 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)	GO	4GS2	X				
	GO	4GS3	X				
	GO	6GS2	X				
	LO, GO	4DX2	X				
	LO, GO	4DX3	X				
	LO, GO	6EA2-E	X				
	LO, GO	6EA2-M	X				
	LO, GO	8EB2-E	X				
	LO, GO	8EB2-M	X				
	LO, GO	6EX2-B	X				
	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			
	RV, EA, EB, EC	6DX2			X		
	RV, EA, EB, EC	6EA2-E		X	X	X	
	RV, EA, EB, EC	6EA2-M		X	X	X	
	RV, EA, EB, EC	8EB2-E		X	X	X	
	RV, EA, EB, EC	8EB2-M		X	X	X	
	EA, EB, EC	8EC2-M			X	X	
	RV	4RV2-O		X	X	X	
	RV	4RV2-T		X	X	X	
	RV	4RV3-0		X	X		
	RV	4RV3-T		X	X		
	SS7	4NO2					
	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	
SS7		4DS9-15			X	X	

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15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(E) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group			
			A	B	C	D
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
	SS7	4DS6-44			X	X

15.1.2 Standard Transmission Specifications

Descriptions of the transmission specifications available with each Feature Group as a function of the Interface Group selected by the customer, are set forth in (A) through (C) following. Descriptions of each of these Standard Transmission Specifications and the two Data Transmission Parameters mentioned are set forth respectively in (D) through (F) and 15.1.3(A) following:

(A) Feature Group A

FGA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 and 6. Type DB Data Transmission Parameters are provided with FGA to the first point of switching.

(B) Feature Group B

FGB is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 and 6. Type DB Data Transmission Parameters are provided with FGB to the first point of switching.

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

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(C) Feature Group C

FGC is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed to the end office either Type B or C is provided.
- When routed to an access tandem only Type B is provided.
- Type B or Type C is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type B is provided with Interface Groups 2 and 6, whether routed directly to an end office or an access tandem.

Type DB Data Transmission Parameters are provided with FGC for the transmission path between the customer designated premises and the end office when directly routed to the end office, between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

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

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(D) Feature Group D

FGD is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- when routed to the end office either Type B or C is provided.
- when routed to an access tandem only Type A is provided.
- Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2 and 6.

Type DB Data Transmission Parameters are provided with FGD for the transmission path between the customer designated premises and the end office when directly routed to the end office. Type DA Data Transmission Parameters are provided for the transmission path between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

(E) 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.

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

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

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

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 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 dBmCO
51 to 100	34 dBmCO
101 to 200	37 dBmCO
201 to 400	40 dBmCO
401 to 1000	42 dBmCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBmCO.

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

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

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

(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:

	<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 of termination shall be equal to or greater than:

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

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15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(F) Type B Transmission Specifications

Type B Transmission Specifications are 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 in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 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>	
	<u>Type B1</u>	<u>Type B2</u>
less than 50	32 dBmCO	35 dBmCO
51 to 100	33 dBmCO	37 dBmCO
101 to 200	35 dBmCO	40 dBmCO
201 to 400	37 dBmCO	43 dBmCO
401 to 1000	39 dBmCO	45 dBmCO

*For Feature Group 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.

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

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

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

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBmCO.

(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 Feature Group, type of termination, and type of transmission path. They are greater than or equal to the following:

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15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(F) 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
- Terminated in 2-Wire trunk	16 dB	11 dB
POT to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem		
. For FGB access	8 dB	4 dB
. For FGC access (Effective 4-Wire trans- mission path at end office)	16 dB	11 dB
. For FGC access (Effective 2-Wire trans- mission path at end office)	13 dB	6 dB

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15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

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

(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

(G) Type C Transmission Specifications

Type C Transmission Specifications are 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.

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15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(G) Type C 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 C1</u>	<u>Type C2</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 dBm0 holding tone is less than or equal to 47 dBrnCO.

*For Feature Group 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.

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15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(G) 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

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15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Feature Group arrangements. Type DB is provided with Feature Groups A, B and C and also with Feature Group D when Feature Group D is directly routed to the end office. Type DA is only provided with Feature Group D and only when routed via an access tandem. Following are descriptions of each.

(A) Data Transmission Parameters Type DA

(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

Less than 50 route miles 500 microseconds

Equal to or greater than
50 route miles 900 microseconds

1004 to 2404 Hz

Less than 50 route miles 200 microseconds

Equal to or greater than
50 route miles 400 microseconds

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15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBmCO 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

(5) The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5 peak-to-peak.

(6) The maximum Frequency Shift does not exceed -2 to +2 Hz.

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

15.1 Switched Access Service (Cont'd)

15.1.3 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
--	------------------

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

15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dB_{rnCO} threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7 peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

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

15.2 Special Access Service

This section explains and lists the codes that the customer must specify when ordering Special Access Service, Switched Access Entrance Facilities, and Voice Grade and High Capacity Direct-Trunked Transport. These codes provide a standardized means to relate the services being ordered to Special Access Service offerings contained in Section 7. preceding.

When ordering, the type of Special Access Service, Switched Access Entrance Facility or Direct-Trunked Transport is described by two code sets, the Network Channel (NC) code and the Network Channel Interface (NCI) codes.

The Network Channel (NC) code consists of two elements. Element one is a Channel Service Code (character positions 1 and 2) that describes the channel service type in an abbreviated form. Element two is an Optional Feature Code (character positions 3 and 4) that identifies option codes available for each channel service code, such as C-conditioning or Improved Return Loss.

The Network Channel Interface (NCI) is used to identify interface specifications associated with a particular channel. This code describes the total wires, protocol, impedance, protocol options and transmission level point(s) reflecting physical and electrical characteristics between the Telephone Company and the customer.

On the following 3 pages are examples which explain the specific characters of the codes and which reference matrices and charts used in developing the codes. Included in the matrices are Service Designator (SD) codes which are used to identify variations of service within service types. The SD and NC codes are displayed as components of the matrices designated as Technical Specifications Packages in (A) through (D) following. Through the use of these matrices, SD codes may be converted to NC codes for service ordering purposes.

A chart is also provided in 15.2.2(A) following which contains information necessary to develop NCI codes.

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

15.2 Special Access Service (Cont'd)

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

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

Example No. 1: If the customer wishes to order a 4-wire voice grade circuit with 600 Ohms impedance, capable of data transmission, and with improved return loss, the customer might specify the following:

<u>NC</u>	<u>NCI</u>	<u>SECNCI</u>
LG-R	04DB2	04DA2-S

NC Code:

LG = Voice Grade Channel Service, VG6
-R = Improved Return Loss

NCI Code:

04 = Number of physical wires at CDP
DB = Data stream in VF frequency band at the customer designated main terminal location
2 = 600 Ohms impedance

SECNCI (Secondary NCI Code):

04 = Number of physical wires at CDP
DA = Data stream in VG frequency at the customer designated secondary terminal location
2 = 600 Ohms impedance
S = Sealing current option for 4-wire transmission

In the above example the NCI (Network Channel Interface) code is the interface requested at the customer's POT (Point of Termination) and the SECNCI (Secondary Network Channel Interface) code represents the interface at the end office serving the End User.

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

15.2 Special Access Service (Cont'd)

Example No. 2: If the customer wishes to order a FX circuit to a station, with 600 Ohms impedance, loop start signaling, which is 4-wire at the CDP and 2-wire at the end-user, the customer might specify:

<u>NC</u>	<u>NCI</u>	<u>SECNCI</u>
LC--	04LO2	02LS2

NC Code:

LC = Voice Grade Channel Service, VG2
-- = No Optional Features

NCI Code:

04 = Number of physical wires at CDP
LO = Loop start, loop signaling - open end
2 = 600 Ohms impedance

SECNCI (Secondary NCI Code):

02 = Number of physical wires at CDP
LS = Loop start signaling - closed end
2 = 600 Ohms impedance

Example No. 3: If the customer wishes to order a 1.544 Mbps Hi-cap facility with no channel options such as CO multiplexing, the customer might specify the following:

<u>NC</u>	<u>NCI</u>	<u>SECNCI</u>
HC--	04DS9-15	04DS9-15

NC Code:

HC = High Capacity Channel Service, HC1
-- = No Optional Features

NCI, SECNCI Code:

04 = Number of physical wires at CDP
DS = Digital hierarchy interface
9 = 100 Ohms impedance
15 = 1.544 Mbps (DS1) format

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

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

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes

In order to determine the NC code appropriate for the service to be ordered, the type of Special Access Service the customer wishes must be identified. This identification is accomplished by a Service Designator (SD) code. The broad categories of Service Designator codes (e.g., VG, etc.) are set forth in Section 7. preceding. Variations within service type (e.g., VG1, etc.) are described in the various Technical Publications cited in (A) through (D) following.

Having determined the specific service type to be ordered and its SD code, and having used the appropriate Technical Publication, the customer should match the SD code to the NC code using the following matrices. Once the NC code has been determined the Network Channel Interface (NCI) code may be developed using the information set forth in 15.2.2 following and the guidelines concerning specific parameters available for each service type as set forth in the specified Technical Publication.

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

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(A) Technical Specifications Packages Voice Grade Service

SD Code NC Code	Package VG-												W		
	C*	1	2	3	4	5	6	7	8	9	10	11		12	LR
<u>Parameter</u>															
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
Envelope Delay															
Distortion	X						X	X	X	X	X	X	X		X
Frequency Shift	X						X	X	X	X	X	X	X		X
Impulse Noise	X					X	X	X	X	X	X	X	X		X
Intermodulation															
Distortion	X						X	X	X	X	X	X			X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X		X
Phase Hits, Gain															
Hits, and Dropouts	X														
Phase Jitter	X						X	X	X	X	X	X			X
Signal-to-C															
Message Noise					X										
Signal-to-C															
Notch Noise	X					X	X	X	X	X	X	X	X		X

The technical specifications for these parameters (except for dropouts, phase hits, and gain hits) are described in Technical References TR-NPL-000334 and TR-NPL-000335. The technical specifications for dropouts, phase hits, and gain hits are described in Technical Reference PUB 41004, Table 4.

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

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

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(A) Technical Specifications Packages Voice Grade Service (Cont'd)

SD Code	C*	Package VG-												W
		1	2	3	4	5	6	7	8	9	10	11	12	
NC Code	LQ	LB	LC	LD	LE	LF	LG	LH	LJ	LK	LN	LP	LR	SE

Optional Features and Functions

Central Office Bridging Capability	X		X			X	X					X	X	X
Central Office Multiplexing	X						X							
Conditioning: . C-Type	X					X	X	X	X	X		X		
. Improved Attenuation Distortion	X					X	X	X	X	X		X		
. Improved Envelope Delay Distortion	X					X	X	X	X	X		X		
. Data Capability	X						X	X				X		
. Telephoto Capability	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						
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	X

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

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(B) Technical Specifications Packages Program Audio Service

SD Code NC Code	<u>Package</u>			
	<u>APC*</u> <u>PQ</u>	<u>AP1</u> <u>PE</u>	<u>AP2</u> <u>PF</u>	<u>AP3</u> <u>PJ</u>
<u>Parameter</u>				
Actual Measured Loss	X	X	X	X
Amplitude Tracking	X			
Crosstalk	X	X	X	X
Distortion Tracking	X			
Gain/Frequency				
Distortion	X	X	X	X
Group Delay	X			
Noise	X	X	X	X
Phrase Tracking	X			
Short-Term Gain				
Stability	X			
Short-Term Loss	X			
Total Distortion	X	X	X	X

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

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

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

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(C) Technical Specifications Packages Digital Data Service

	<u>Package</u>			
SD Code	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>
NC Code	<u>XA</u>	<u>XB</u>	<u>XG</u>	<u>XH</u>
 <u>Parameter</u>				
Error-Free Seconds	X	X	X	X

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

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

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

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(D) Technical Specifications Packages High Capacity Service

	<u>Package</u>
SD Code	<u>HC1</u>
NC Code	<u>HC</u>
<u>Parameters</u>	
Error-Free Seconds	X
<u>Optional Features and Functions</u>	
Central Office Multiplexing:	
DS1 to Voice	X

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

15.2.2 Network Channel Interface (NCI) Codes

The electrical interface with the Telephone Company for Special Access Services, is defined by an interface code. There are interface codes for both the customer designated premises and the point of termination. Three examples of NCI codes are found in 15.2 preceding.

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(A) Parameter Codes and Options

Parameter

<u>Code</u>	<u>Option</u>	<u>Definition</u>
AB	-	accepts 20 Hz ringing signal at customer's point of termination
AC	-	accepts 20 Hz ringing signal at customer's end user's point of termination
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
DC	-	direct current or voltage
	- 1	monitoring interface with series RC combination (McCulloh format)
	- 2	Telephone Company energized alarm channel
DS	-	digital hierarchy interface
	- 15	1.544 Mbps (DS1) format per PUB 41451 plus D4
	- 15E	8-bit PCM encoded in one 64 kbps of the DS1 signal
	- 15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
	- 15G	8-bit PCM encoded in three 64 kbps of the DS1 signal
	- 15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
	- 15J	1.544 Mbps format per PUB 41451
	- 15K	1.544 Mbps format per PUB 41451 plus extended framing format
	- 15L	1.544 Mbps (DS1) with SF signaling
	- 44	44.736 Mbps (DS3)
	- 44L	44.736 Mbps (DS3) with SF signaling
DU	-	digital access interface
	- 24	2.4 kbps
	- 48	4.8 kbps
	- 56	56.0 kbps
	- 96	9.6 kbps
	- A	1.544 Mbps format per PUB 41451
	- B	1.544 Mbps format per PUB 41451 plus D4
	- C	1.544 Mbps format per PUB 41451 plus extended farming format

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(A) Parameter Codes and Options (Cont'd)

Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DX	-	duplex signaling interface at customer's point of termination
DY	-	duplex signaling interface at customer's end user's point of termination
EA	- E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EA	- M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EB	- E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EB	- M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EC	-	Type III E&M signaling at customer POT
EX	- A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions.
EX	- B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.
GO	-	ground start loop signaling - open end function by customer or customer's end user
GS	-	ground start loop signaling - closed end function by customer or customer's end user
IA	-	E.I.A. (25 pin RS-232)
LA	-	end user loop start loop signaling - Type A OPS registered port open end
LB	-	end user loop start loop signaling - Type B OPS registered port open end
LC	-	end user loop start loop signaling - Type C OPS registered port open end
LO	-	loop start loop signaling - open end function by customer or customer's end user
LR	-	20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(A) Parameter Codes and Options (Cont'd)

Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
LS	-	loop start loop signaling - closed end function by customer or customer's end user
NO	-	no signaling interface, transmission only
PG	-	program transmission - no dc signaling
	- 1	nominal frequency from 50 to 15000 Hz
	- 3	nominal frequency from 200 to 3500 Hz
	- 5	nominal frequency from 100 to 5000 Hz
	- 8	nominal frequency from 50 to 8000 Hz
PR		protective relaying*
RV	- 0	reverse battery signaling, one way operation, originate by customer
	- T	reverse battery signaling, one way operation, terminate function by customer or customer's end user
SF	-	single frequency signaling with VF band at either customer POT or customer's end user POT
TF	-	telephotograph interface

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

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(B) Impedance

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

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

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

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces

(1) Voice Grade

<u>Compatible Cis</u>		<u>Compatible Cis</u>		<u>Compatible CIs</u>	
2AB2	2AC2	2DB2	2DA2	2LR2	2LR2
2AB3	2AC2	2DB3	2DA2	2LR3	2LR2
2CT3	2DY2	2DX3	2LA2	2LS	2GS
	4DS8		2LB2		2LS
	4DX2		2LC2		4GS
	4DX3		2LO3		4LS
	4DY2		2LS2		
	4EA2-E		2LS3	2LS2	2LA2
	4EA2-M				2LB2
	4SF2	2G02	2GS2		2LC2
	4SF3		2GS3		
	6DX2			2LS3	2LA2
	6DY2	2G03	2GS2		2LB2
	6DY3		2GS3		2LC2
	6EA2-E				
	6EA2-M	2GS	2GS	2NO2	2DA2
	6EB2-E		2LS		2NO2
	6EB2-M		4GS		
	6EB3-E		4LS	2NO3	2NO2
	8EB2-E				2PR2
	8EB2-M	2L02	2LS2		
	8EC2		2LS3	2TF3	2TF2
	9DY2				
	9DY3	2L03	2LS2		
	9EA2		2LS3		
	9EA3				

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

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

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15.2 Special Access Service (Cont'd)

15.2.2 Network Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible Cis</u>		<u>Compatible Cis</u>		<u>Compatible CIs</u>	
4DD3	2DE2 4DE2		2NO2 PR2 2RV2-T 2TF2 4AC2 4DA2 4DE2 4DX2 4DX3 4DY2 4EA2-E 4EA2-M		6EB2-M 6GS2 6LS2 8EB2-E 8EB2-M 9DY2 9DY3 9EA2 9EA3
4DX2	2DY2 2LA2 2LB2 2LC2 2LO3 2LS2 2LS3 2RV2-T 4DX2 4DY2 4EA2-E 4EA2-M 4LS2 4RV2-T 4SF2 4SF3 6DY2 6DY3 6EA2-E	4DX2	8EB2-E 8EB2-M 9DY2 9DY3 9EA2 9EA3	4DX3	6DY2 6DY3 6EA2-E 6EA2-M 6EB2-E 6EB2-M 6LS2 8EB2-E 8EB2-M 9DY2 9DY3 9EA2 9EA3
		4DX3	2DY2 2LA2 2LB2 2LC2 2LO3 2LS2 2LS3 2RV2-T 4DX2 4DX3 4DY2 4EA2-E	4DY2	2DY2 4DY2

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

	<u>Compatible Cis</u>	<u>Compatible Cis</u>	<u>Compatible CIs</u>	
	6EA2-M	4EA2-M		
	6EB2-E	4LS2		
	6EB2-M	4RV2-T		
	6LS2	4SF2		
		4SF3		
4EA2-E	2DY2	4EA3-E 2DY2	4GO2	2GO2
	4DY2	4DY2		2GO3
	4EA2-E	4EA2-E		2GS2
	4EA2-M	4EA2-M		2GS3
	4SF2	4SF2		4GS2
	6DY2	6DY2		4SF2
	6DY3	6DY3		6GS2
	6EB2-E	6EA2-E		
	6EB2-M	6EA2-M	4G03	2GO2
	8EB2-E	6EB2-E		2GS2
	8EB2-M	6EB2-M		2GS3
	9DY2	8EB2-E		4GS2
	9DY3	8EB2-M		4SF2
		9DY2		6GS2
4EA2-M	2DY2	9DY3		
	4DY2	9EA2		
	4EA2-M	9EA3	4GS	2GS
	4SF2			2LS
	6DY2			4GS
	6DY3			4LS
	6EB2-E			
	6EB2-M			
	8EB2-E			
	8EB2-M			
	9DY2			
	9DY3			

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

	<u>Compatible Cis</u>	<u>Compatible Cis</u>	<u>Compatible CIs</u>
4LO2	2LS2 2LS3 4LS2 4SF2 6LS2	4LS3 2LA2 2LB2 2LC2 2LO2 2LO3 4SF2	4SF2 2LO3 2LR2 2LS2 2LS3 2RV2-T 4AC2 4DY2
4L03	2LS2 2LS3 4LS2 4SF2 6LS2	4NO2 2DA2 2DE2 2NO2 4DA2 4DE2	4LS2 4RV2-T 4SF2 6DY2 6DY3
4LR2	2LR2 4LR2 4SF2	4NO2 6DA2	6GS2 9DY2 9DY3
4LR3	2LR2 4LR2 4SF2	4RV2-0 2RV2-T 4RV2-T 4SF2	4SF3 2DY2 2G03 2GS2 2GS3
4LS	2GS 2LS 4GS 4LS	4SF2 2AC2 2DY2 2GS2 2GS3 2LA2	2LA2 2LB2 2LC2 2LO3 2LR2
4LS2	2LA2 2LB2 2LC2 2LO2 2LO3	2LB2 2LC2	

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible Cis</u>		<u>Compatible Cis</u>		<u>Compatible CIs</u>	
4SF3	2LS2	6DA	4DA2	6DY3	2DY2
	2LS3		6DA2		4DY2
	2RV2-T				6DY2
	4DY2	6DX2	2DY2		6DY3
	4EA2-E		4DY2		
	4EA2-M		4EA2-E	6EA2-E	2AC2
	4GS2				
	4LR2		4EA2-M		2DY2
	4LS2		4SF2		2LA2
	4RV2-T		6DY2		2LB2
	4SF2		6DY3		2LC2
	4SF3		6EA2-E		2LO3
	6DY2		6EA2-M		2LS2
	6DY3		6EB2-E		2LS3
	6EB2-E		6EB2-M		2RV2-T
	6EB2-M		8EB2-E		4AC2
	6GS2		8EB2-M		4DY2
	6LS2		9DY2		4EA2-E
	9DY2		9DY3		4EA2-M
	9DY3		9EA2		4LS2
	9EA2		9EA3		4RV2-T
	9EA3				4SF2
		6DY2	2DY2		4SF3
4TF2	2TF2		4DY2		6DY2
	4TF2		6DY2		6DY3
					6EA2-E
					6EA2-M

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

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

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

	<u>Compatible Cis</u>	<u>Compatible Cis</u>	<u>Compatible CIs</u>
6EX2-B	2G03	8EB2-E 2AC2	8EB2-M 2AC2
	2LA2	2DY2	2DY2
	2LB2	2LA2	2LA2
	2LC2	2LB2	2LB2
	2LO2	2LC2	2LC2
	2LO3	2LO3	2LO3
	2LR2	2LS2	2LS2
	4LR2	2LS3	2LS3
	4SF2	2RV2-T	2RV2-T
		4AC2	4AC2
6GO2	2GO2	4DY2	4DY2
	2GS2	4LS2	4LS2
	2GS3	4RV2-T	4RV2-T
	4GS2	4SF2	4SF2
	4SF2	4SF3	4SF3
	6GS2	6DY2	6DY2
		6DY3	6DY3
6LO2	2LS2	6EB2-E	6EB2-E
	2LS3	6EB2-M	6EB2-M
	4LS2	6LS2	6LS2
	4SF2	8EB2-E	8EB2-M
	6LS2	8EB2-M	9DY2
		9DY2	9DY3
6LS2	2LA2	9DY3	
	2LB2		
	2LC2		
	2LO2		
	2LO3		
	4SF2		

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible Cis</u>		<u>Compatible Cis</u>		<u>Compatible CIs</u>	
8EC2	2DY2	9DY2	2DY2	9EA3	2DY2
	4DY2		4DY2		4DY2
	4EA2-E		6DY2		4EA2-E
	4EA2-M		6DY3		4EA2-M
	4SF2		9DY2		6DY2
	6DY2				6DY3
	6DY3	9DY3	2DY2		6EA2-E
	6EA2-E		4DY2		6EA2-M
	EA2-M		6DY2		6EB2-E
	EB2-E		6DY3		6EB2-M
	6EB2-M		9DY2		8EB2-E
	8EB2-E		9DY3		8EB2-M
	8EB2-M				9DY2
	9DY2	9EA2	2DY2		9DY3
	9DY3		4DY2		9EA3
	9EA2		4EA2-E		
	9EA3		4EA2-M		
			6DY2		
			6DY3		
			6EA2-E		
			6EA2-M		
			6EB2-E		
			6EB2-M		
			8EB2-E		
			8EB2-M		
			9DY2		
			9DY3		
			9EA2		
			9EA3		

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(2) Program Audio

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

(3) Digital Data

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

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

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

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(4) High-Capacity

<u>Compatible Cis</u>		<u>Compatible Cis</u>	
4DS8-15	4DS8-15+ 4DU8-B 6DU8-8	4DU8-A,B or C	4DU8-A,B or C
4DS6-44	4DS6-44+ 4DU8-A, B or C 6DU8-A, B or C	4DS8-31	4DS8-31 4DU8-A, B or C 6DU8-A, B or C

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

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ACCESS SERVICE

16. Public Packet Data Network

16.1 Frame Relay Service

16.1.1 General

(A) General

Frame Relay Service (FRS) is a medium-speed, connection-oriented packet-switched data service that allows for the interconnection of Local Area Networks (LANs) or other compatible end user customer premises equipment. The terminal equipment accumulates the customer data and puts it into a frame relay format suitable for transmission over the FRS network.

FRS permits customers to share network bandwidth for data transmissions.

Rates and charges for FRS are set forth in Section 17.4.7(A) following. The application of rates for FRS is described in Section 16.1.2 following.

In addition to the regulations and charges specified in this section, the general regulations and charges specified in other sections of this tariff apply as appropriate.

(B) Service Description

FRS is a transport service that facilitates the exchange of variable length information units (frames) between customer connections. Frames travel a fixed path through the network with an address that specifies the permanent virtual connection. Addresses are read by the network processor, and the frames are relayed to the preassigned destination.

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16. Public Packet Data Network (Cont'd)

16.1 Frame Relay Service (Cont'd)

16.1.1 General (Cont'd)

(B) Service Description (Cont'd)

The service includes: the Access Point Link, the Frame Relay Service Port, the Virtual Link, which has associated Committed Information Rates (CIRs), and the Network Link. A special access facility (ordered out of Section 7.6 or 7.7 preceding) is used to connect to the frame relay service from a user's premise.

The Access Point Link (APL) is the physical entry point that connects a user's special access channel to the Frame Relay Service network. The APL utilizes speeds of 56/64 Kbps, 128 Kbps, 256 Kbps, 384 Kbps, 512 Kbps, or 768 Kbps, and must be ordered at a bit rate equal to the Frame Relay Service Port (except that no APL is required for a Frame Relay Service Port speed of 1.536 Mbps).

The Frame Relay Service Port (FRS PORT) connection permits FRS compatible customer premises equipment (CPE) to originate or terminate an interstate access service. Connections between customer premises equipment and the telephone company frame relay switch are available at speeds of 56 Kbps, 64 Kbps, 128 Kbps, 256 Kbps, 384 Kbps, 512 Kbps, 768 Kbps, and 1.536 Mbps. Each FRS Port connection requires the identification of a corresponding terminating port connection(s).

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ACCESS SERVICE

16. Public Packet Data Network (Cont'd)

16.1 Frame Relay Service (Cont'd)

16.1.1 General (Cont'd)

(B) Service Description (Cont'd)

The Virtual Link (VL) is a permanent virtual circuit that connects one FRS Port to another. A VL is a software defined communications path between two port connections or a port and a network link within the FRS network. The VL must be ordered at a bit rate equal to or less than the lower bit rate of the two associated ports. The VL utilizes various speed categories of 56/64 Kbps, 128 Kbps, 256 Kbps, 384 Kbps, 512 Kbps, 768 Kbps, and 1.536 Mbps. The VL must be associated with two FRS Ports, or an FRS Port and NL, and must be ordered at a bit rate equal to the lower of the associated FRS Port or NL. One or a multiple of VL's can be associated with one FRS Port or NL.

Customers will be permitted to order multiple VLs on a given port subject to switch limitations, not to exceed 820 VL's on a given FRS port. Customers anticipating non-simultaneous transmission may order CIRs assigned to these multiple VL's, however the sum of the CIRs on those VL's may not exceed three times the bit rate of the FRS Port. This condition is referred to as oversubscription and when oversubscription occurs, there can be no guarantee that the bandwidth defined for any of those VLs will be available.

VL's are independent of FRS Ports and NLs and can have different customers as controllers. The Virtual Link is charged a nonrecurring and recurring rate for connection to the FRS Port or NL. At the time service is ordered the number of VLs will be identified along with their Committed Information Rates. Each VL is provisioned with a customer selected Committed Information Rate. The CIR is a transmission speed specified by the customer. If not specified, the bit rate of the CIR is equal to the bit rate of the VL. Otherwise, the bit rate of the CIR may range from 8 kbps up to the bit rate of the associated VL in increments of 8 kbps. The Company will provide switch capacity to permit the customer to transmit information with guaranteed delivery at the specified bit rate of the CIR.

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16. Public Packet Data Network (Cont'd)

16.1 Frame Relay Service (Cont'd)

16.1.1 General (Cont'd)

(B) Service Description (Cont'd)

The Company will permit customers to attempt to transmit at speeds up to twice the bit rate of the CIR or up to the bit rate of the FRS port, whichever is lower. Transmission above the CIR is referred to as the Excessive Information Rate (EIR) and there can be no guaranteed delivery of EIR traffic. CIRs are the bit rates at which the FRS network commits to transfer data. Committed Information Rates provide for frame relay switch throughput at designated speeds (See 16.1.2 (A) (3) following.) This information is required for network routing purposes.

The Network Link (NL) is the interexchange facility connecting a Frame Relay Service customer in one exchange of the Company to Frame Relay Service customer in another contiguous Company exchange. The NL utilizes the same speeds as the Virtual Link and must be ordered at a bit rate equal to or greater than the highest rate of the VL. The NL is non-mileage sensitive.

Connections between a user and the Frame Relay Service are provided via Channel Terminations (see Section 7.6 and 7.7, Special Access Digital Data and High Capacity Services preceding). All regulations, rates and charges as specified in Section 17.3.4 and Section 17.3.5 will apply in addition to the rates and charges associated with FRS.

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16. Public Packet Data Network (Cont'd)

16.1 Frame Relay Service (Cont'd)

16.1.1 General (Cont'd)

(C) Ordering Options and Conditions

Frame Relay Service is ordered under the Access Order provisions set forth in Section 5 preceding. Also included in that section are other charges which may be associated with ordering FRS (e.g., Service Data Change Charges, Cancellation Charges, etc.) Specific rates for these charges are set forth in Section 17.4 following. A minimum of two FRS Port connections are required for data to be transported between customer designated premises.

When placing an order for FRS the customer must specify:

- the number of Virtual Links (VLs) required. (not to exceed 820 VLs);
- the location of the ports for each VL;
- the Committed Information Rates (CIRs) that will be associated with each VL;
- that the traffic consists of more than ten percent interstate traffic.

The FRS Port connecting the special access facility to the Company frame relay switch must be ordered and provided at the same speed as the special access facility.

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

(D) Acceptance Testing

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

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16. Public Packet Data Network (Cont'd)

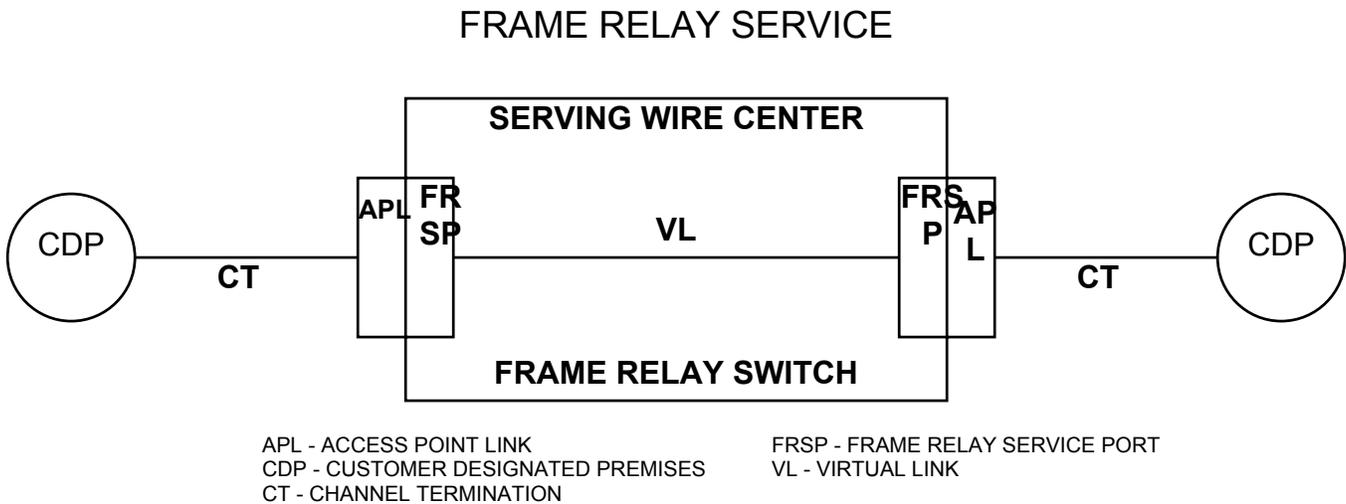
16.1 Frame Relay Service (Cont'd)

16.1.2 Rate Regulations

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

(A) Rate Categories

The following diagrams depict a generic view of the components of FRS and the manner in which the components are combined to provide Frame Relay Service and Interconnected Frame Relay Service.



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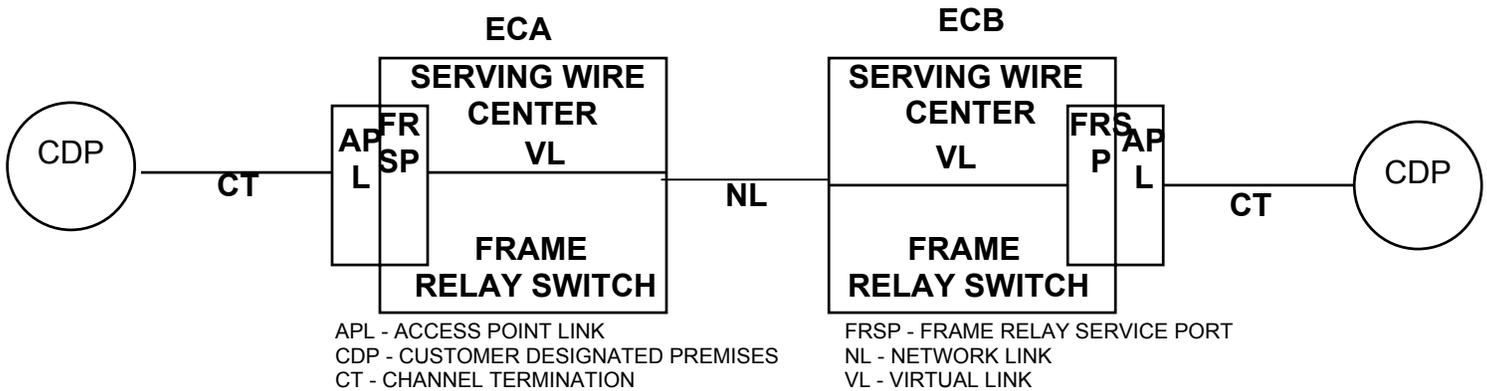
16. Public Packet Data Network (Cont'd)

16.1 Frame Relay Service (Cont'd)

16.1.2 Rate Regulations (Cont'd)

(A) Rate Categories (Cont'd)

INTERCONNECTED
FRAME RELAY SERVICE



Frame Relay Service is available within all Company exchanges. It may be terminated to the frame relay services of another provider to the extent that technical compatibility and suitable service arrangements between the Company and the other provider are maintained.

(1) Access Point Link

The Access Point Link (APL) is the physical entry point that connects an end user's special access channel to the Frame Relay Service network. The APL utilizes speeds of 56/64 Kbps, 128 Kbps, 256 Kbps, 384 Kbps, 512 Kbps, or 768 Kbps, and must be ordered at a bit rate equal to the Frame Relay Service Port (except that no APL is required for a Frame Relay Service Port speed of 1.536 Mbps).

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16. Public Packet Data Network (Cont'd)

16.1 Frame Relay Service (Cont'd)

16.1.2 Rate Regulations (Cont'd)

(A) Rate Categories (Cont'd)

(2) FRS Port

The FRS Port is the physical location in the Company switching office where the special access facility of the customer connects to the FRS Network. While their cost is the same, FRS ports are designated as User Network Interface (UNI) Ports or Network to Network Interface (NNI) Ports. A UNI Port connects end user special access services and premise equipment to the FRS network. An NNI Port connects a customer's special access and compatible FRS network to the FRS network of the company. FRS Ports receive the data frame from the customer's Local Area Network or other compatible CPE device and verifies that the connection and the corresponding access customer connection is valid before relaying the frame to the destination end point.

The FRS Port consists of either a 56 Kbps, 64 Kbps, 128 Kbps, 256 Kbps, 384 Kbps, 512 Kbps, 768 Kbps or a 1.544 Mbps port interface connection. The port connecting the special access facility to the Company frame relay switch must be ordered and provided at the same speed as the special access facility.

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16. Public Packet Data Network (Cont'd)

16.1 Frame Relay Service (Cont'd)

16.1.2 Rate Regulations (Cont'd)

(A) Rate Categories (Cont'd)

(3) Virtual Link (VL)

A VL is a software defined communications path between two port connections or a port and a network link within the FRS network. The VL must be ordered at a bit rate equal to or less than the lower bit rate of the two associated ports.

Each VL is provisioned with a customer selected Committed Information Rate. The CIR is a transmission speed specified by the customer. If not specified, the bit rate of the CIR is equal to the bit rate of the VL. Otherwise, the bit rate of the CIR may range from 8 kbps up to the bit rate of the associated VL in increments of 8 kbps. The Company will provide switch capacity to permit the customer to transmit information with guaranteed delivery at the specified bit rate of the CIR. The Company will permit customers to attempt to transmit at speeds up to twice the bit rate of the CIR or up to the bit rate of the FRS port, whichever is lower. Transmission above the CIR is referred to as the Excessive Information Rate (EIR) and there can be no guaranteed delivery of EIR traffic.

Customers will be permitted to order multiple VLs on a given port subject to switch limitations, not to exceed 820 VL's on a given FRS port. Customers anticipating non-simultaneous transmission may order CIRs assigned to these multiple VL's, however the sum of the CIRs on those VL's may not exceed three times the bit rate of the FRS Port. This condition is referred to as oversubscription and when oversubscription occurs, there can be no guarantee that the bandwidth defined for any of those VLs will be available.

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16. Public Packet Data Network (Cont'd)

16.1 Frame Relay Service (Cont'd)

16.1.2 Rate Regulations (Cont'd)

(A) Rate Categories (Cont'd)

(4) Network Link (NL)

The Network Link (NL) is the interexchange facility connecting a customer in one company exchange to the frame relay service in another contiguous company exchange. The NL utilizes the same speeds as the Virtual Link and must be ordered at a bit rate equal to or greater than the highest rate of the VL. The NL is non-mileage sensitive and establishes an interexchange communications path between the FRS Port on the Company frame relay switch and the frame relay switch in another Company exchange.

(B) Types of Rates and Charges

There are two types of rates and charges. They are monthly rates and nonrecurring charges. The rates and charges are described as follows:

(1) Monthly Rates

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

(2) Nonrecurring Charges

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

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16. Public Packet Data Network (Cont'd)

16.1 Frame Relay Service (Cont'd)

16.1.2 Rate Regulations (Cont'd)

(B) Types of Rates and Charges (Cont'd)

(2) Nonrecurring Charges (Cont'd)

(a) Installation of Service

Nonrecurring charges apply for the installation of VLs.

(b) Service Rearrangements

Service Rearrangements are changes to existing (installed) services.

A VL Rearrangement Charge will be applied whenever a change is made to the CIR of an existing VL after initial port installation and/or a change is made to the termination port destination of the VL. This change is equal to the VL installation charge.

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

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

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16. Public Packet Data Network (Cont'd)

16.1 Frame Relay Service (Cont'd)

16.1.2 Rate Regulations (Cont'd)

(B) Types of Rates and Charges (Cont'd)

(2) Nonrecurring Charges (Cont'd)

(c) Minimum Period

The minimum period for FRS is one month and the full monthly rate will apply to the first month. Adjustments for quantities of services established or discontinued in any billing period beyond the minimum period are as set forth in Section 2.4.1 (F). The minimum period for the Frame Relay Service 1.536 Mbps port are as set forth in Section 2.4.2 and Section 5.5.1.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services
Contents of Section 16.2

16.2.1 ADSL SpeedLink Services

- (A) Service Description
- (B) Service Provisioning
- (C) Responsibility of the Telephone Company
- (D) Rights of the Telephone Company
- (E) Responsibility of the Customer
- (F) Technical Specifications
- (G) Rate Regulations
 - (1) Rate Elements
 - (2) Rate Application
 - (3) SpeedLink Term Pricing Plan (TPP)
 - (a) General Description
 - (b) Nonrecurring Charges
 - (c) Renegotiation
 - (d) Renewal
 - (e) Termination of Services
 - (f) Special Construction Charges

16.2.2 Telecommunications Service Provider Service Access (TSPSA)

- (A) Service Provisioning
- (B) Order Specifications and Provisions
- (C) Limitations
- (D) Rate Elements
 - (1) UNI
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 - (3) VCC/VPC
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 - (5) IMA UNI
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- (E) Rate Application
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- (F) Term Pricing
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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Cont'd)

General Description

This section contains the rules and regulations pertaining to the provision of TXU Digital Subscriber Line (DSL) Services. DSL services provide high-speed connections over existing copper or fiber facilities, which may also be used to provision customers' local exchange service. Current DSL offerings are limited to Asymmetrical Digital Subscriber Line Service (SpeedLink) and Telecommunications Service Provider Service Access (TSPSA). Service, provisioning, and rate information is detailed following. The regulations and rates specified herein are in addition to the applicable regulations and rates specified in other sections of this tariff.

16.2.1 ADSL Speedlink Services

(A) Service Description

Asymmetrical Digital Subscriber Line (ADSL) SpeedLink Service (SpeedLink) is an access data technology service offered in speed levels of: 1) 1.53 Mbps to 384 Kbps downstream/128 Kbps upstream and 2) 1.53 Mbps to 768 Kbps downstream/256 Kbps upstream. The Up speeds represent transmission speeds in kilobits per second (Kbps), from the point of demarcation at the customer designated premises to the Telephone Company's ADSL connection point; while the Down speeds represent transmission speeds in Kbps or megabits per second (Mbps), from the Telephone Company's ADSL connection point to the point of demarcation at the customer's designated premises. Actual speeds may be affected by loop distance and other factors. However, the Telephone Company will deliver the connection speeds between these ranges up to the point of demarcation at the customer premises.

SpeedLink service will require a splitter(s) at both the customer's designated premises and the telephone Company's serving wire center to split the traffic between data and voice. The customer is responsible for providing and maintaining the splitter(s) at the customer designated premises. The voice traffic will be routed to the serving wire center switching equipment while the data traffic will be directed through a multiplexer for connection to a Telecommunication Service Provider (TSP).

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- 16. Public Packet Data Network (Continued)
 - 16.2 Digital Subscriber Line (DSL) Service (Continued)
 - 16.2.1 ADSL SpeedLink Services (Continued)
 - (A) Service Description (Continued)

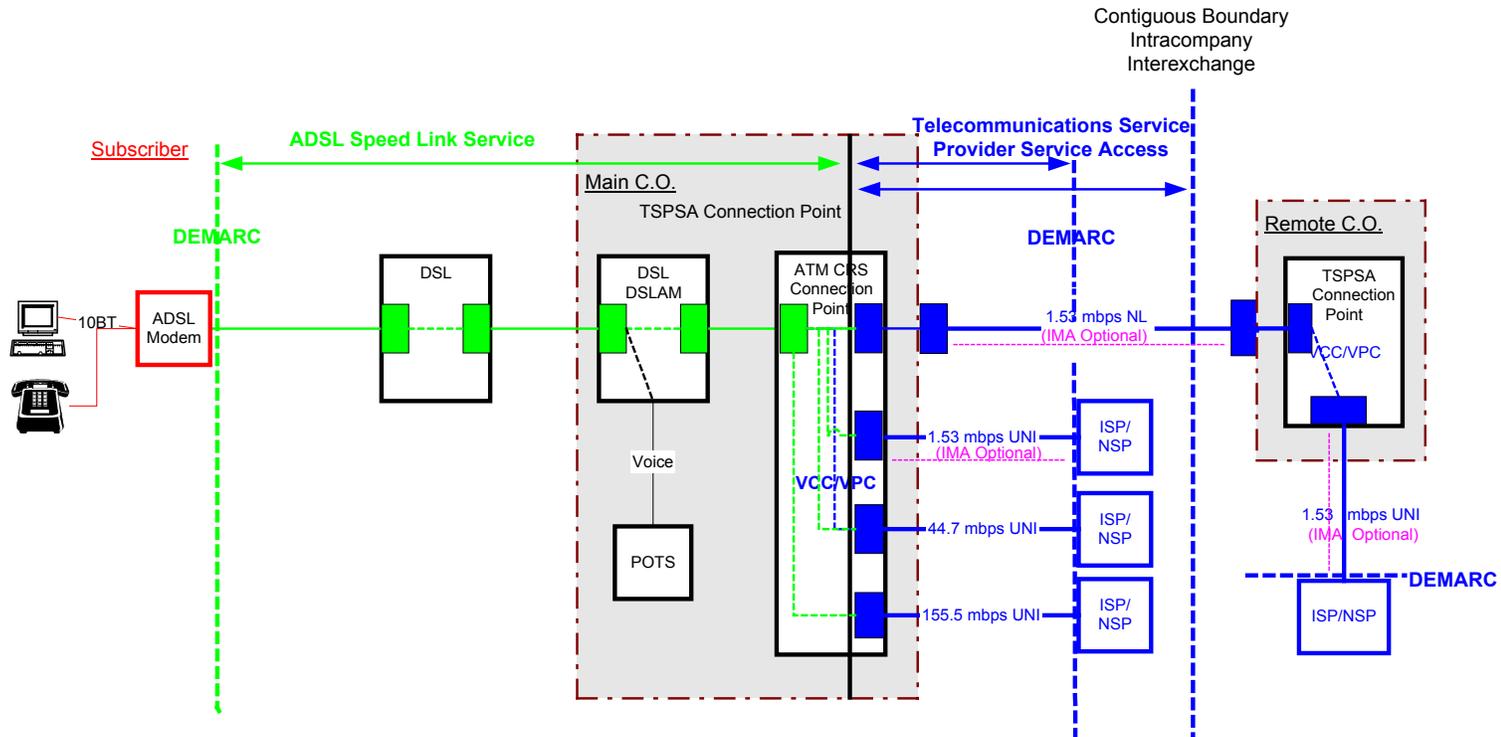


FIGURE 1

- (B) Service Provisioning

The Telephone Company will qualify the local exchange service loop between the customer’s designated premises and the serving wire center. The purpose of qualification is to determine the availability and suitability of existing Telephone Company facilities to provide the service. The Telephone Company will not provision this service on facilities which are not suitable for ADSL.

The Telephone Company does not undertake to originate data, but offers the use of its ADSL Technology, where available, to customers for the purpose of transporting data originated by the customer or a third party.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.1 ADSL SpeedLink Service (Continued)

(B) Service Provisioning (Continued)

Information pertaining to end offices equipped to provide ADSL SpeedLink service is set forth in the National Exchange Carrier Association, Inc. (NECA) Tariff F.C.C. No. 4. ADSL Service will be provided subject to the availability and limitations of the Telephone Company wire centers and outside plant facilities. ADSL SpeedLink service is only available where technical capabilities permit such facility distance and type of physical plant.

(C) Responsibility of the Telephone Company

The Telephone Company will provision and maintain SpeedLink Service for the customer up to the point of demarcation at the customer premise. The Telephone Company will advise the customer of any customer premises equipment (CPE) necessary to support the service that the customer will need to purchase.

(D) Rights of the Telephone Company

The Telephone Company will not provision SpeedLink service if the Telephone Company has reasonably determined that (a) it is not technically feasible over existing facilities or (b) it will cause interference problems within the Telephone Company's network or other facilities.

During the Telephone Company's network maintenance and software update period, it may be necessary to temporarily place the SpeedLink central office equipment out of service. The Telephone Company also reserves the right to temporarily interrupt SpeedLink service at other times in emergency situations.

(E) Responsibility of the Customer

The customer is responsible for providing compatible customer premises equipment (CPE) that is used for connection to SpeedLink service.

Any customer ordering SpeedLink service on behalf of another subscriber(s) must obtain a letter of agency.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.1 ADSL SpeedLink Service (Continued)

(E) Responsibility of the Customer (Continued)

The SpeedLink customer will be responsible for granting permission to the Telephone Company's agents or employees to enter the customer's designated premises at a mutually agreed upon time for the purpose of installing, inspecting, repairing, or upon termination of the service, removing the service components of the Telephone Company.

(F) Technical Specifications

Technical Specifications are listed in the Telephone Company's technical publication (TP) 76701.

(G) Rate Regulations

(1) Rate Elements

SpeedLink is available in two (2) options which are based on the downstream and upstream speed combinations chosen by the customer. These options are listed below:

	<u>Downstream Speed</u>	<u>Upstream Speed</u>
Basic (1)	1.53 Mbps - 384 Kbps	128 Kbps
Enhanced (2)	1.53 Mbps - 768 Kbps	256 Kbps

A monthly rate charge and a nonrecurring rate charge apply per SpeedLink arrangement as shown in Sect. 17.4.7(B)(1) and 18.4.7(B)(1) of this tariff. A standard service change charge as described in this tariff, will be applied per arrangement when the customer desires to select a different option in order to change bandwidth.

- (1) Customer's modem must synchronize at 128 Kbps to attain the minimum speed of 128 Kbps.
- (2) Customer's modem must synchronize at 256 Kbps to attain the minimum speed of 256 Kbps.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.1 ADSL SpeedLink Service (Continued)

(G) Rate Regulations (Continued)

(2) Rate Application

The regulations applicable to SpeedLink Service provided under Term Pricing Plan (TPP) arrangements are specified in 17.4.7(B)(1) and 18.4.7(B)(1), following.

SpeedLink service is offered for a minimum service period of 30 days. A move of SpeedLink service from one physical location to another, or a change from one speed option to another, will be handled and billed as a service disconnection and a new installation. A change from one Telecommunication Service Provider to another, with no change of service option, will be billed as a service order charge.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.1 ADSL SpeedLink Service (Continued)

(G) Rate Regulations (Continued)

(3) SpeedLink Term Pricing Plan (TPP)

(a) General Description

The SpeedLink Term Pricing Plan (TPP) provides a customer with rate stabilization and discounted tariff rates based upon a one-year term commitment selected by the customer.

Decreases in SpeedLink monthly recurring rates will be passed on to customers who participate in a TPP. Should the Telephone Company increase its rates during the TPP period, the customer will continue to pay the rates in effect at the time the customer elected to establish service under the TPP.

Terms of month-to-month and one year are available. Customers meeting the term commitment will be charged accordingly, as set forth in 17.4.7(B)(1) and 18.4.7(B)(1), following.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.1 ADSL SpeedLink Service (Continued)

(G) Rate Regulations (Continued)

(3) SpeedLink Term Pricing Plan (TPP) (Continued)

(b) Nonrecurring Charges

Nonrecurring charges as set forth in 17.4.7(B) following will apply for those arrangements ordered under a SpeedLink TPP.

(c) Renegotiation

The customer may choose to terminate an existing TPP prior to the end of the term period and negotiate a new TPP without termination liability provided the new plan meets the following requirements:

- the new TPP must represent a term commitment greater than or equal to the previous TPP,
- the new TPP must be based upon the rates that are currently in effect and available to all customers.

When the customer converts to a greater term commitment, actual time in service for the original TPP will be applied to the new TPP. However, no credits or refunds will apply for the billing of actual time in service for the previous TPP.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.1 ADSL SpeedLink Service (Continued)

(G) Rate Regulations (Continued)

(3) SpeedLink Term Pricing Plan (TPP)(Continued)

(d) Renewal

The customer must provide the Telephone Company notice of intent to renew a one-year TPP no later than 60 days prior to its expiration. The renewal rates will be the rates that are currently in effect and available to all customers. If the customer elects not to renew the TPP, or does not notify the Telephone Company of its intent to renew the TPP, the customer's service will automatically be billed under the tariffed month-to-month rates in effect at the time the TPP expires.

(e) Termination of Service

Customers requesting the termination of a TPP prior to the expiration date, excluding TPP terminated as a result of a renegotiation, will be charged a prorated payment based on the remainder of the TPP contract period, as of the date of disconnect, times the TPP rate for the service purchased.

For example, a Basic Speedlink customer with a one-year TPP disconnects after seven months. The customer would pay a termination liability of: \$110.00 (Basic SpeedLink TPP rate times the remaining 5 months = \$22 per month x 5 months)

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.1 ADSL SpeedLink Service (Continued)

(G) Rate Regulations (Continued)

(3) SpeedLink Term Pricing Plan (TPP)(Continued)

(f) Termination of Service – Grandfathered Service

Customers who signed a contract prior to the effective date of this provision and which had a different termination liability, are grandfathered under the lesser amount of the prior procedure, described in this section below or the new current procedure in Section 16.2.1(G)(3)(e) for one year, through March 11, 2005.

Customers requesting the termination of an TPP prior to the expiration date, excluding TPP terminated as a result of a renegotiation, will be charged the difference between the one year monthly rate and the month-to-month rate times the number of months they used the service.

For example, a customer with Basic SpeedLink and a one-year TPP disconnects after seven months.

The customer would pay a termination liability of: \$161.00
 \Rightarrow (Basic SpeedLink month-to-month rate (\$45.00) minus the one year TPP rate (\$22.00) = \$23 per month x 7 months)

(g) Special Construction Charges

Any special construction charges incurred for services billed under a TPP will be negotiated and billed on an individual case basis.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA)

General Description

Telecommunication Service Provider Service Access (TSPSA) is a fast packet, cell based service technology which can support applications requiring high bandwidth, high performance transport and switching. TSPSA allow customers who have requirements for high speed, inter-premises connectivity to interconnect their multiple locations via a User-Network Interface (UNI) element from the customer's premises to the Telephone Company's serving wire center; or via a Network Link (NL) element with UNI for interconnection between contiguous exchanges within the Telephone Company's serving area.

TSPSA operates using standard cell relay signaling protocol. TSPSA provides high-speed, low-delay networking capabilities suited for bandwidth intensive data, voice or video business applications that require near-real-time communication support among multiple locations.

Customers may expand the capabilities of TSPSA by ordering Inverse Multiplexing for User Network Interface (IMA UNI). IMA UNI allows customers to send multiple streams of traffic requiring bandwidth greater than a 1.53 Mbps, but less than 44.7 Mbps to the ATM network. The customer must provide an access device capable of the IMA function. This CPE must be located at the customer's premises.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(A) Service Provisioning

- (1) Provisioning of this service is subject to the availability and operational limitations of the Telephone Company's equipment and associated facilities. Provisioning of this service is limited to locations within the service area of the telephone company.
- (2) TSPSA requires the use of CPE that functions as a multiplexer, bridge or router. The CPE must be compatible with the Telephone Company's equipment and facilities and must conform to industry standards and specifications set forth in the Telephone Company's technical publications (TPs) 76625, 76839 and 76700.
- (3) The Telephone Company will provision TSPSA up to and including the network interface located on the customer's premises. The placement of the network interface shall be located in a manner consistent with federal and state regulatory requirements. This location will be at each customer's premises unless specified otherwise and agreed to by the Telephone Company.
- (4) When a customer requires the modification of standard service components not otherwise provided in this tariff, the modification may be furnished at the option of the Telephone Company as specified in Section 12, Specialized Service or Arrangements.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(A) Service Provisioning (Continued)

- (5) The customer shall be responsible for obtaining permission for the Telephone Company's agents or employees to enter the customer's premises at a mutually agreed upon time for the purpose of installing, inspecting, repairing or, upon termination of the service, removing the equipment of the Telephone Company.
- (6) Network equipment installed by the Telephone Company on the customer's premises shall remain the property of the Telephone Company. The customer or user may not rearrange, disconnect, remove, attempt to repair, remote test or interface with any network equipment installed by the Telephone Company without the prior written consent of the Telephone Company.
- (7) When the TSPSA is used in connection with CPE, the operating characteristics of such CPE must not interfere with the Telephone Company's network. CPE must not:
 - (a) endanger the safety of the Telephone Company's employees or the public;
 - (b) damage, harm, require change in or alteration of the equipment or other services of the Telephone Company;
 - (c) or interfere with the proper operation of the Telephone Company's equipment.

Upon notice from the Telephone Company that the equipment provided by the customer or user is causing, or is likely to cause, such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.

- (8) The services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Requests for special facilities or routing will be provided in accordance with Section 11, of this tariff.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(B) Ordering Specifications and Provisions

(1) The customer will access the TSPSA network, where facilities exist, via a minimum of one UNI or NL, for each customer premises or network end point as detailed below:

(a) UNI – the point of interconnection between the Telephone Company’s communications facilities and the CPE. The UNI is provided using standard cell relay User-Network Interface signaling protocol. The UNI includes the facility and port access into the Telephone Company’s network.

The customer must select one of the following interfaces and applicable bandwidths for each UNI:

- 1.53 Mbps UNI is available in bandwidths to 1.5 Mbps;
- 44.7 Mbps UNI is available in bandwidths up to 40 Mbps; and
- 155.5 Mbps UNI is available in bandwidths up to 144 Mbps.

(b) A Network Link (NL) is an optional element that may be purchased for an additional charge to establish a dedicated link between the telephone company facilities located in contiguous exchanges. NL service is available at 1.53 Mbps only and cannot be purchased without an associated UNI.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(B) Ordering Specifications and Provisions

(2) The Virtual Channel Connections (VCC), and Virtual Path Connections (VPC) define paths across the Telephone Company’s TSPSA network. The customer must indicate the VCC/VPC bandwidth, designate the connection and select the preferred bit rate enforcement (CBR or UBR) when ordering.

(a) Each VCC/VPC consumes a portion of a UNI interface bandwidth. The following VCC/VPC bandwidth selections are available for the TSPSA:

- 1.53 Mbps available in increments of 64 Kbps up to 1500 Kbps,
- 44.736 Mbps available in increments of 1 Mbps up to 40 Mbps, and
- 155.5 Mbps available in increments of 1 Mbps up to 148 Mbps.

VCC is a logical connection that exists between one TSPSA switch port and another TSPSA switch port. VPC is a group of logical connections that exists between one TSPSA switch port and another TSPSA switch port. A VPC connection typically is used to route multiple, customer-defined VCCs as a group. It is the customer’s responsibility to configure and maintain the individual VCCs within a VPC connection.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(B) Ordering Specifications and Provisions (Continued)

(2) (Continued)

(b) The Telephone Company will provision bit rate enforcement on each VCC/VPC as selected by the customer. A VCC/VPC may be designated as Constant Bit Rate (CBR) or Unspecified Bit Rate (UBR):

- CBR supports applications that are delay sensitive, such as voice and some types of video. CBR is offered as a premium service for an additional charge as set forth in 17.4.7(B) and 18.4.8(B), Monthly Rates and Nonrecurring Charges, following.
- UBR supports applications that generate bursty and time-varying traffic. UBR is included in the basic TSPSA, where facilities exist.

(3) Inverse Multiplexing for User Network Interface (IMA UNI)

The IMA UNI enables the aggregation of various speed, multiple traffic streams, conversion to ATM cells and distribution across multiple DS1s. IMA UNI must be provisioned over copper DS1s and includes the port access.

The customer must specify the speed for the IMA UNI. IMA UNI is available at the following speeds: 3 Mbps, 4.5 Mbps, 6 Mbps and 12 Mbps.

(4) Inverse Multiplexing for Network Link (IMA NL)

The IMA NL enables the aggregation of various speeds, multiple traffic streams, conversion to cell relay cells and distribution across multiple DSIs. IMA NL includes port access and is available at the following speeds: 3 Mbps, 4.5 Mbps, 6 Mbps, and 12 Mbps. The customer must specify the desired speed.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(C) Limitations

- (1) The Telephone Company does not undertake to originate data, but offers the use of its service elements, where facilities exist, to customers for the purpose of transporting customer originated data.
- (2) The responsibility of the Telephone Company shall be limited to furnishing the TSPSA network. Subject to this responsibility, the Telephone Company shall not be responsible for the through transmission of signals generated by the CPE or for the quality of, or defects in, such transmission or the reception of signals by the CPE
- (3) The Telephone Company undertakes the responsibility to maintain and repair the service it furnishes.

The Telephone Company will provide the customer reasonable notification of service-affecting activities that may occur in the normal operation of its business. Such activities may include, but are not limited to, routine preventative maintenance and major switching machine change-outs, equipment additions and removals or rearrangements. The Telephone Company will work cooperatively with the customer to determine the notification requirements.

Maintenance of Service regulations and charges are set forth in 13.3.2, Maintenance of Service, for customer reported trouble.

The Telephone Company may request additional customer information as may be required to permit the Telephone Company to maintain the TSPSA network and to ensure that the service arrangement is in compliance with regulations contained in this section.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(C) Limitations (Continued)

- (4) The Telephone Company shall not be responsible for error correction. TSPSA switches may discard frames with errors. The switches may also discard frames when the network supporting TSPSA is in a state of congestion.
- (5) The Telephone Company shall not be responsible for installation, operation, maintenance or adapting the TSPSA to the technological requirements of any specific CPE.
- (6) The Telephone Company shall not be responsible to the customer or user if changes in any of the equipment, operations or procedures of the Telephone Company used in the provision of TSPSA render any facilities provided by the customer or user obsolete or require modification or alteration of such equipment or system or otherwise affect its use or performance, provided the Telephone Company has met any applicable information disclosure requirements otherwise required by law.

(D) Rate Elements

The following describes the rate elements available for TSPSA. Specific rates and charges for these elements are set forth in 17.4.7 and 18.4.8 of this tariff.

(1) User-Network Interface (UNI)

The UNI rate element is a standard defined User-Network Interface which offers customer access to the TSPSA network. This element includes the facility from the customer premises, and the port access.

UNIs are offered, where Telephone Company's facilities exist, at the following rates: 1.53 Mbps with bandwidths up to 1.5 Mbps; 44.7 Mbps UNI with bandwidths up to 40 Mbps; 155.5 Mbps UNI with bandwidths up to 144 Mbps.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(D) Rate Elements (Continued)

(1) UNI (Continued)

A monthly rate and nonrecurring charge applies for each UNI installed from the customer's network interface to the central office based TSPSA switch.

(2) Network Link (NL)

A Network Link (NL) is an optional element that may be purchased for an additional charge to establish a dedicated link between two central office based TSPSA switches. A NL cannot be purchased without an associated UNI and is available at 1.53 Mbps only.

(3) Virtual Channel Connection/Virtual Path Connection (VCC/VPC)

The VCC/VPC rate element provides virtual connections between a customer's UNIs.

A monthly rate and nonrecurring charge applies for each VCC or VPC element provisioned for a customer's UNI or NL.

(4) Constant Bit Rate (CBR)

The CBR rate element supports applications where variable delays in transmission would negatively impact the information content. VCC/VPCs provisioned with CBR are intended for applications requiring minimal delay variation and loss.

An additional monthly rate and nonrecurring charge applies for each VCC/VPC bandwidth increment provisioned with CBR.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(D) Rate Elements (Continued)

(5) Inverse Multiplexing for User Network Interface (IMA UNI)

The IMA UNI enables the aggregation of various speed, multiple traffic streams, conversion to cell relay cells and distribution across multiple DS1s. IMA UNI must be provisioned over copper DS1s and includes the port access. The customer must specify the speed for the IMA UNI. IMA UNI is available at the following speeds: 3 Mbps, 4.5 Mbps, 6 Mbps and 12 Mbps.

(6) Inverse Multiplexing for Network Link (IMA NL)

The IMA NL enables the aggregation of various speeds, multiple traffic streams, conversion to cell relay cells and distribution across multiple DSIs. IMA NL includes port access and is available at the following speeds: 3 Mbps, 4.5 Mbps, 6 Mbps, and 12 Mbps. The customer must specify the desired speed.

(E) Rate Applications

There are two types of rates and charges that apply to the various rate elements for TSPSA. These are monthly recurring rates and nonrecurring charges.

(1) Monthly Rates

Monthly Rates are fixed recurring rates that apply each month, or fraction thereof, that a specific rate element is provided. For billing purposes each month is considered to have thirty (30) days.

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ACCESS SERVICE

16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(E) Rate Applications (Continued)

(2) Minimum Period

TSPSA is provided for a minimum period of one year. When service is disconnected prior to the expiration of the one (1) year minimum period or the optional three (3) year term period, monthly charges are applicable for the balance of the period ordered by the customer.

If service is disconnected after the one or three year period ordered, monthly charges will be based on the actual number of days the service is furnished. In order to determine the charges for a fractional portion of a month, a month is considered to have 30 days.

Monthly recurring rates are applicable to TSPSA rate elements described in 16.2.2(D), preceding.

(3) Nonrecurring Charges

Nonrecurring charges are one-time charges applicable for the installation of each UNI, NL, VCC, VPC, IMA UNI, and IMA NL.

In addition to the installation of service charge, a nonrecurring order charge will apply as specified in Section 17.4.7(B) and 18.4.8(B), following.

A change that cannot be supported by the bandwidth of the existing service connection will require a new service connection.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(F) Term Pricing Plan (TPP)

(1) General

TSPSA-Term Pricing Plan (TPP) provides the customer with rate stabilization and discounted tariff rates. The TSPSA-TPP provides for a one or three year service period for rate stabilization. Charges for the one and three year plans are specified in 17.4.7(B) and 18.4.8(B) following.

TSPSA TPP annual/or three year rates will be exempt from Telephone Company initiated rate increases throughout the selected service period. Should the Telephone Company increase its rates during the TSPSA-TPP service period, the customer will continue to pay the rates in effect at the time the customer elected to establish service under TSPSA-TPP.

(2) Service Available under TSPSA-TPP

A customer may elect to participate in an TSPSA-TPP for UNI, IMA UNI, NL and IMA NL rate elements. No term period is required or available for VCC, VPC, or CBR rate elements.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(F) Term Pricing Plan (TPP) (Cont'd)

(3) Terms and Conditions

The customer must specify the length of the service period at the time the TSPSA-TPP is established.

(4) Pricing Plan Conversion

The customer may request an existing TSPSA provided on a one (1) year plan be converted to a three (3) TPP.

Prior to the expiration of the original service period, the customer may convert an existing TSPSA-TPP service period to a new service period without incurring termination charges provided the new service period is equal to or greater than the remaining portion of the original service period.

When the customer converts to a greater term commitment, actual time in service for the original TPP will be applied to the new TPP. However, no credits or refunds will apply for the billing of actual time in service for the previous TPP.

(5) Renewal

The customer must provide the Telephone Company notice of intent to renew a one-year TPP no later than 60 days prior to its expiration. The renewal rates will be the rates that are currently in effect and available to all customers. If the customer elects not to renew the TPP, or does not notify the Telephone Company of its intent to renew the TPP, the customer's service will automatically be billed under the tariffed month-to-month rates in effect at the time the ADSL-TPP expires.

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16. Public Packet Data Network (Continued)

16.2 Digital Subscriber Line (DSL) Services (Continued)

16.2.2 Telecommunication Service Provider Service Access (TSPSA) (Continued)

(F) Term Pricing Plan (TPP) (Cont'd)

(6) Termination of a TPP

Customers requiring the termination of a TPP prior to the expiration date, excluding any TPP terminated as a result of a pricing plan conversion will be charged in full for the remaining months of the term plan ordered. Customers terminating a three (3) year TPP prior to expiration will also be charged for any difference between one (1) year and three (3) year installation charges.

For example, a customer with 1 - 1.53 UNI port and a three (3) year TPP who disconnects after 24 months would pay a termination liability of \$7800.00.

(1.53 UNI port @ \$600.00/mo. X 12 mos. = \$7200.00
Difference between one (1) year and three (3) year installation = \$600.00).

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ACCESS SERVICE

17. Rates and Charges – TXU Communications Telephone Company

17.1 End User Access Service, Federal Universal Service Charge and ISDN Line Ports

17.1.1 Reserved for Future Use

17.1.2 End User Access Service

Regulations and charges for End User Access Service are the same as those set forth in Sections 4 and 17 of the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5.

17.1.3 Federal Universal Service Charge

Regulations and charges for the Federal Universal Service Charge are the same as those set forth in Sections 3 and 17 of the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5.

17.1.4 ISDN Line Ports

Regulations and charges for ISDN Line Ports are the same as those set forth in Sections 3 and 17 of the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5.

17.1.5 Lifeline Assistance Plan

As set forth in 4.3 preceding, the End User Common Line Charge shall be reduced by the amount of the Lifeline Assistance Plan ordered by the Public Utility Commission of Texas and approved by the F.C.C. Waiver of the End User Common Line Charge shall not exceed 100 percent of the charge.

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ACCESS SERVICE

17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.2 Switched Access Service

17.2.1 Nonrecurring Charges	<u>Rate</u>	<u>Tariff Section Reference</u>
(A) Local Transport - Installation Per Entrance Facility		6.4.1(B)(1)
- Voice Grade Two Wire	\$430.00	
- Voice Grade Four Wire	\$430.00	
- High Capacity DS1	\$453.00	
(B) FGC and FGD Conversion of Multifrequency Address Signaling to SS7 Signaling or SS7 Signaling to Multifrequency Address Signaling		
- Trunk Group Conversion Charge	\$248.00	6.4.1(B)(3)
(C) Interim NXX Translation Per Order	\$143.00	6.4.1(B)(2)
(D) Transport Trunk Activation, per trunk activated	\$263.00	
(E) Flexible Automatic Number Identification (Flex ANI) (per end office, per CIC)	None	6.4.1.(B)(5)

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.2 Local Transport	<u>Rate</u>	<u>Tariff Section Reference</u>
(A) Entrance Facility Per Termination		
(1) Voice Grade Two Wire	\$ 24.14	
(2) Voice Grade Four Wire	\$ 34.39	
(3) High Capacity DS1	\$102.26	
(B) Direct-Trunked Transport		
(1) Direct-Trunked Facility, Per Mile		
(a) Voice Grade	\$ 0.78	
(b) High Capacity DS1	\$10.86	
(2) Direct-Trunked Termination Per Termination		
(a) Voice Grade	\$12.24	
(b) High Capacity DS1	\$38.10	
(C) Tandem Switched Transport		
(1) Tandem Switched Facility Per Access Minute Per Mile	\$0.000166	
(2) Tandem Switched Termination Per Access Minute Per Termination	\$0.000772	
(D) Tandem Switching Per Access Minute Per Tandem	\$0.001744	
(E) Reserved for Future Use		

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.2 Switched Access Service

17.2.2	Local Transport (Cont'd)	<u>Rate</u>
	(F) Multiplexing, Per Arrangement	
	- DS1 to Voice	\$105.04
	(G) Non-Premium Access	
	Reserved for Future Use	
	(H) 800 Data Base Query Charge	
	- Per Basic Query	\$0.000589
	- Per Enhanced Query	\$0.000683

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.2 Local Transport (Cont'd)

(I) Service Provider Number Portability (SPNP) Service

Regulations concerning SPNP are set forth in Section 6.10.2.

		<u>Monthly Rate</u> <u>Per Query</u>
(1)	SPNP Query - Prearranged, Per Query	
	(a) End Office	\$0.003371
	(b) Tandem Office	\$0.003371
(2)	SPNP Query - Default, Per Query	
	(a) End Office	\$0.003371
	(b) Tandem Office	\$0.003371
		<u>Monthly Rate</u> <u>Per Line</u>
(3)	SPNP Surcharge* Per access line or equivalent	\$0.36
(4)	SPNP Surcharge* Per PBX Trunk	\$3.24
(5)	SPNP Surcharge* Per ISDN PRI arrangement	\$1.80

Exceptions: The following wire centers are not LNP capable: Lufkin, Diboll, Central, Hudson, Fuller Springs, Apple Springs, Wells, Alto and Etoile.

* Billed over a 60 month period from April 11, 2003 to April 11, 2008

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.3 End Office	<u>Rate</u>	<u>Section Reference</u>
(A) Local Switching		
(1) Premium		
- Per Access Minute	\$0.003995	6.1.3(B)(1)
(2) Non-Premium		
- Per Access Minute	\$0.001798	6.1.3(B)(1)
(B) Information Surcharge		
(1) Premium Per 100 Access Minutes		
	\$0.069565	6.1.3(B)(2)
(2) Non-Premium Per 100 Access Minutes		
	\$0.031304	6.1.3(B)(2)

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.4 Assumed Minutes of Use	<u>Assumed Minutes Per Month</u>	<u>Tariff Section Reference</u>
(A) Feature Group A, Two Way Calling (1510 Originating, 2685 Terminating)	4195	6.5.4
(B) Feature Group A, Originating Only	1510	6.5.4
(C) Feature Group A, Terminating Only	2685	6.5.4
(D) Feature Group B, Two Way Calling (3132 Originating, 5568 Terminating)	8700	6.6.4
(E) Feature Group B, Originating Only	3132	6.6.4
(F) Feature Group B, Terminating Only	5568	6.6.4
	<u>Rate</u>	
17.2.5 Operator Transfer Service Per Call Transferred	\$0.331965	6.9.3

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.3 Special Access Service

17.3.1 Surcharge for Special Access Service

The surcharge for Special Access Service is the same as that set forth in Section 17 of the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5.

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.2 Voice Grade Service

Regulations concerning Voice Grade Service are set forth in 7.4 preceding.

		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A)	Channel Termination Per Termination		
	(1) Two-Wire	\$ 24.14	\$430.00
	(2) Four-Wire	\$ 34.39	\$430.00
(B)	Channel Mileage		
	(1) Channel Mileage Facility Per Mile	\$ 0.78	
	(2) Channel Mileage Termination Per Termination	\$12.24	
(C)	Optional Features and Functions		
	(1) Bridging		
	(a) Voice Bridging Per Port		
	(i) Two-Wire	\$ 0.43	
	(ii) Four-Wire	\$ 0.43	

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.2 Voice Grade Service (Cont'd)

	<u>Monthly Rate</u>
(C) Optional Features and Functions (Cont'd)	
(1) Bridging (Cont'd)	
(b) Data Bridging per port	
(i) Two-Wire	\$ 0.43
(ii) Four-Wire	\$ 0.43
(c) Telephoto Bridging per port	
(i) Two-Wire	\$ 0.43
(ii) Four-Wire	\$ 0.43

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.2 Voice Grade Service (Cont'd)

		<u>Monthly Rate</u>
(C) Optional Features and Functions (Cont'd)		
(2) Conditioning Per Termination		
(a)	C Type	None
(b)	D Type	None
(c)	Telephoto Capability	\$ 9.90
(3) Improved Return Loss for Effective Two-Wire or Four-Wire Transmission Per Termination		
(a)	Two-Wire	\$ 3.32
(b)	Four-Wire	\$ 3.41
(4)	Signaling Capability Per Termination	\$12.10

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Program Audio Service

Regulations concerning Program Audio Service are set forth in 7.5 preceding.

		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A)	Channel Termination Per Termination		
	(1) 200 to 3500 Hz	\$ 23.21	\$361.00
	(2) 100 to 5000 Hz	24.06	361.00
	(3) 50 to 8000 Hz	24.89	361.00
(B)	Channel Mileage		
	(1) Channel Mileage Facility Per Mile		
	(a) 200 to 3500 Hz	\$ 0.78	
	(b) 100 to 5000 Hz	1.55	
	(c) 50 to 8000 Hz	2.33	
	(2) Channel Mileage Termination Per Termination		
	(a) 200 to 3500 Hz	\$13.91	
	(b) 100 to 5000 Hz	16.45	
	(c) 50 to 8000 Hz	21.58	

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.4 Digital Data Service

Regulations concerning Digital Data Service are set forth in 7.6 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Channel Termination Per Termination		
- 2.4 kbps	\$ 32.54	\$480.00
- 4.8 kbps	32.54	480.00
- 9.6 kbps	32.54	480.00
- 56.0 kbps	33.39	480.00
(B) Channel Mileage		
(1) Channel Mileage Facility Per Mile		
- 2.4 kbps	\$ 0.78	
- 4.8 kbps	0.78	
- 9.6 kbps	0.78	
- 56.0 kbps	1.55	
(2) Channel Mileage Termination Per Termination		
- 2.4 kbps	\$ 18.63	
- 4.8 kbps	18.63	
- 9.6 kbps	18.63	
- 56.0 kbps	23.77	

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.5 High Capacity Service

Regulations concerning High Capacity Service are set forth in 7.7 preceding.

		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A)	Channel Termination Per Termination		
-	1.544 Mbps	\$102.26	\$453.00
(B)	Channel Mileage		
(1)	Channel Mileage Facility Per Mile		
-	1.544 Mbps	\$10.86	
(2)	Channel Mileage Termination Per Termination		
-	1.544 Mbps	\$38.10	
(C)	Optional Features and Functions		
(1)	Multiplexing, per arrangement		
-	DS1 to Voice*	\$105.04	

*A channel of this DS1 to the Hub can be used for Digital Data service.

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.6 Reserved for Future Use

17.3.7 Reserved for Future Use

17.3.8 Reserved for Future Use

17.3.9 Individual Case Basis Filings

Reserved for Future Use

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services

17.4.1 Access Ordering

	<u>Charge</u>	<u>Tariff Section Reference</u>
(A) Access Order Charge Per Order	\$ 64.00	5.4.1
(B) Service Date Change Charge		
<p>A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The Access Order Charge as specified in 17.4.1(A) preceding does not apply. The applicable charge is:</p>		
Service Date Change Charge, per order	\$ 47.00	5.4.3
(C) Design Change Charge		
<p>The Design Change Charge will apply on a per order per occurrence basis, for each order requiring design change. The applicable charge is:</p>		
Design Change Charge, per order	\$ 47.00	5.4.3
(D) Miscellaneous Service Order Charge		
Per Occurrence	\$ 47.00	5.4.2

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.2 Additional Engineering

	<u>Additional Engineering Periods</u>	<u>Each Half Hour or Fraction Thereof</u>	<u>Tariff Section Reference</u>
(A)	Basic Time per engineer normally scheduled working hours	\$26.59	13.1
(B)	Overtime per engineer outside of normally scheduled working hours	\$39.89	13.1
(C)	Premium Time outside of scheduled work day, per engineer	\$53.18	13.1

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.3 Additional Labor

<u>Additional Labor Periods</u>	<u>Each Half Hour or Fraction Thereof</u>	<u>Tariff Section Reference</u>
(A) Installation or Repair		
- Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	\$37.79*	13.2.1 & 13.2.2
- Premium Time, outside of scheduled work day, per technician	\$50.38*	13.2.1 & 13.2.2
(B) Stand by		
- Basic Time, normally scheduled working hours, per technician	\$25.19*	13.2.3
- Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	\$37.79*	13.2.3
- Premium Time, outside of scheduled workday, per technician	\$50.38*	13.2.3

* 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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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.3 Additional Labor (Cont'd)

		Each Half Hour or Fraction Thereof		
		Installation and Repair Technician	Central Office Maintenance Technician	Tariff Section Reference
<u>Additional Labor Periods</u>		<u>Technician</u>	<u>Technician</u>	<u>Reference</u>
(C)	Testing and Maintenance with other Telephone Companies, or other Labor			
-	Basic Time per technician & normally scheduled working hours	\$25.19	\$24.91	13.2.4 & 13.2.5
-	Overtime per technician & outside of normally scheduled working hours on a scheduled work day,	\$37.79 *	\$37.36 *	13.2.4 & 13.2.5
-	Premium Time per technician & outside of scheduled work day	\$50.38 *	\$49.81 *	13.2.4 & 13.2.5

* 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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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.4 Miscellaneous Services (Cont'd)

(A)	Additional Cooperative Acceptance Testing – Switched Access	Each Half Hour or Fraction Thereof	Tariff Section Reference
	<u>Testing Periods</u>	<u>Thereof</u>	<u>Reference</u>
	Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 17.4.3(C) preceding for Central Office Maintenance Technician	13.3.1(A)(1)
(B)	Additional Automatic Testing - Switched Access	Each Half Hour or Fraction Thereof	Tariff Section Reference
	<u>To First Point Of Switching</u>	<u>Thereof</u>	<u>Reference</u>
	Additional Tests		
	Gain-Slope Tests C-Notched Noise Tests 1004 Hz Loss** C-Message Noise** Balance (return loss)**	See the rates for Additional Labor as set forth in 17.4.3(C) preceding for Central Office Maintenance Technician	13.3.1(A)(2)

* 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.

** 1004 Hz Loss, C-Message Noise and Balance are non-chargeable routine tests, however, they may be requested on an as needed or more than routine scheduled basis, in which case the charges herein apply.

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.4 Miscellaneous Services (Cont'd)

(C) Additional Manual Testing - Switched Access

To First Point of Switching	Each Half Hour or Fraction Thereof	Tariff Section Reference
<u>Additional Tests</u>	<u>Thereof</u>	<u>Reference</u>
Gain-Slope C-Notched Noise and any other agreed to tests, per technician	See the rates for Additional Labor as set forth in 17.4.3(C) preceding	13.3.1(A)(3)

(D) Additional Cooperative Acceptance Testing – Special Access

<u>Testing Periods</u>	Each Half Hour or Fraction Thereof	Tariff Section Reference
Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 17.4.3(C) preceding.	13.3.1(B)(1)

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

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.4 Miscellaneous Services (Cont'd)

(E) Additional Manual Testing - Special Access

<u>Testing Periods</u>	Each Half Hour or Fraction <u>Thereof</u>	Tariff Section <u>Reference</u>
Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 17.4.3(C) preceding.	13.3.1(B)(2)

(F) Maintenance of Service

<u>Maintenance of Service Periods</u>	Each Half Hour or Fraction <u>Thereof</u>	Tariff Section <u>Reference</u>
Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 17.4.3(C) preceding.	13.3.2

* 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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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.4 Miscellaneous Services (Cont'd)

	<u>Non Recurring Rate</u>	<u>Tariff Section Reference</u>
(G) Telecommunications Service Priority (TSP)		
Per service arranged	\$64.00	13.3.3
(H) Billing Name and Address Service		
(1) Paper		
- Per request	\$52.00	13.3.4
- Per query	\$0.15	13.3.4
(2) Magnetic Tape,		
- Per request	\$126.31	13.3.4
(I) Presubscription		
Per Telephone Exchange Service Line or Trunk*	\$ 5.00	13.4
(J) Reserved for Future Use		

* This charge is billed to the end user who is the subscriber to the Telephone Exchange Service. In the event an end user is incorrectly presubscribed due to misassignment on the part of the Telephone company, no charge shall apply. In the event an end user is incorrectly presubscribed due to misassignment on the part of the IC, and the IC is unable to document such an assignment, the Telephone Company will apply the charge to the IC responsible for the misassignment of the end user and assign the end user to an IC of the end user's choice.

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.4 Miscellaneous Services (Cont'd)

		<u>Non Recurring Rate</u>	<u>Tariff Section Reference</u>
(K)	Originating Line Screening (OLS) (per exchange line)	\$ 6.07	13.3.5
		<u>Monthly Recurring Rate</u>	
(L)	Pay Telephone Coin Supervision (PTCS) (per exchange line)	\$1.43	13.3.6

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.5 Special Facilities Routing of Access Services

(A) Diversity

For each service provided in accordance with 11.1. preceding, the rates and charges will be developed on an individual case basis.

(Reserved for future use.)

(B) Avoidance

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

(Reserved for future use.)

(C) Diversity and Avoidance Combined

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

(Reserved for future use.)

17.4.6 Specialized Service or Arrangements

Specialized Service or Arrangements are provided on an individual case basis as set forth following:

(Reserved for future use.)

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.7 Public Packet Data Network

(A) Frame Relay Service
Regulations concerning Frame Relay Service are set forth in Section 16.1 preceding.

Connections	<u>Monthly Rate</u>	<u>Installation Rate</u>
(1) Access Point Link (per link)		
56/64 Kbps	\$ 1.55	\$21.00
128 Kbps	\$ 37.27	\$21.00
256 Kbps	\$ 37.27	\$21.00
384 Kbps	\$ 37.27	\$21.00
512 Kbps	\$ 37.27	\$21.00
768 Kbps	\$ 37.27	\$21.00
1.536 Mbps	N/A	N/A
(2) Frame Relay Service UNI Port (per port)		
56/64 Kbps	\$ 17.98	\$52.00
128 Kbps	\$ 22.70	\$52.00
256 Kbps	\$ 24.80	\$52.00
384 Kbps	\$ 26.90	\$52.00
512 Kbps	\$ 39.30	\$52.00
768 Kbps	\$ 53.80	\$52.00
1.536 Mbps	\$ 84.80	\$52.00
(3) Frame Relay Service NNI Port (per port)		
128 Kbps	\$ 22.70	\$52.00
256 Kbps	\$ 24.80	\$52.00
384 Kbps	\$ 26.90	\$52.00
512 Kbps	\$ 39.30	\$52.00
768 Kbps	\$ 53.80	\$52.00
1.536 Mbps	\$ 84.80	\$52.00

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17.4 Other Services (Cont'd)

17.4.7 Public Packet Data Network (Cont'd)

(A) Frame Relay Service (Cont'd)

	<u>Connections</u>	<u>Monthly Rate</u>	<u>Installation Rate</u>
(4)	Virtual Links (VLs)		
	56/64 Kbps	\$ 3.88	\$41.00
	128 Kbps	\$ 5.80	\$41.00
	256 Kbps	\$ 7.30	\$41.00
	384 Kbps	\$ 9.70	\$41.00
	512 Kbps	\$ 13.00	\$41.00
	768 Kbps	\$ 19.40	\$41.00
	1.536 Mbps	\$ 24.30	\$41.00
(5)	Network Link (per link)		
	56/64 Kbps	\$ 45.85	\$62.00
	128 Kbps	\$ 58.00	\$62.00
	256 Kbps	\$ 63.30	\$62.00
	384 Kbps	\$ 68.60	\$62.00
	512 Kbps	\$100.30	\$62.00
	768 Kbps	\$137.30	\$62.00
	1.536 Mbps	\$216.50	\$62.00

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.7 Public Packet Data Network (Cont'd)

(B) Digital Subscriber Line (DSL) Services

(1) ADSL SpeedLink Service

Regulations concerning SpeedLink service are set forth in Section 16.2.1 preceding.

	Recurring Monthly Rate	Recurring Monthly Rate for 1-Year TPP	Nonrecurring Service Order Charge	Nonrecurring Service Order Charge 1- Year TPP	Nonrecurring Installation Rate-Monthly Service	Nonrecurring Installation Rate-1 year TPP
Basic SpeedLink 1.53 Mbps - 384 Kbps downstream 128 Kbps upstream	\$45.00	\$22.00	\$34.00	No charge	\$66.00	No charge
Enhanced SpeedLink 1.53 Mbps - 768 Kbps downstream 256 Kbps upstream	\$65.00	\$55.00	\$34.00	No charge	\$66.00	No charge

(2) Promotional Offerings

During the time period between March 1, 2004 and May 31, 2004, the Telephone Company will waive the first month of recurring monthly charges for any new ADSL customer or current month-to-month customer who commits to at least a one-year TPP (Term Pricing Plan). If the ADSL line is disconnected for any reason prior to the end of the 12-month minimum commitment period, the Telephone Company will bill the customer an amount equal to the waived recurring charges and any termination fees.

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.7 Public Packet Data Network (Cont'd)

(B) Digital Subscriber Line (DSL) Services (Continued)

(3) Telecommunications Service Provider Service Access (TSPSA)

Regulations concerning TSP DSL Service Access are set forth in Section 16.2.2 preceding.

	Monthly Rate for 1 Year TPP	Installation Rate- 1 year TPP *	Monthly Rate for 3 Years TPP	Installation Rate – 3 year TPP *
<u>UNI PORT</u>				
1.53 UNI Port	\$700.00	1200.00	600.00	600.00
44.7 Mbps UNI Port	\$3200.00	2000.00	2700.00	1200.00
155.5 Mbps UNI Port	\$4200.00	2000.00	3700.00	1200.00
<u>IMA UNI PORT</u>				
3 Mbps	\$1300.00	1300.00	1100.00	900.00
4.5 Mbps	\$1580.00	1700.00	1375.00	1050.00
6 Mbps	\$1860.00	2000.00	1650.00	1200.00
12 Mbps	\$2800.00	3500.00	2475.00	1500.00
<u>NL PORT</u>				
1.53 Mbps	\$1100.00	1200.00	1000.00	600.00
<u>IMA NL PORT</u>				
3 Mbps	\$2200.00	1300.00	2000.00	900.00
4.5 Mbps	\$3300.00	1700.00	3000.00	1050.00
6 Mbps	\$4400.00	2000.00	4000.00	1200.00
12 Mbps	\$8800.00	3500.00	8000.00	1500.00

* Installation charges are in addition to a non-recurring Service Order Charge of \$34.00 per order processed.

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17. Rates and Charges – TXU Communications Telephone Company (Cont'd)

17.4 Other Services (Cont'd)

17.4.7 Public Packet Data Network (Cont'd)

(B) Digital Subscriber Line (DSL) Services (Continued)

(3) Telecommunications Service Provider Service Access (TSPSA)
(Cont'd)

	<u>Monthly Rate</u>	<u>Installation Rate</u>
VCC	\$18.00	\$40.00
VPC	\$28.00	\$40.00
CBR	\$15.00	\$ 0.00

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ACCESS SERVICE

18. Rates and Charges – Fort Bend Telephone Company

18.1 End User Access Service, Federal Universal Service Charge, and ISDN Line Ports

18.1.1 Reserved for Future Use

18.1.2 End User Access Service

Regulations and charges for End User Access Service are the same as those set forth in Sections 4 and 17 of the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5.

18.1.3 Federal Universal Service Charge

Regulations and charges for the Federal Universal Service Charge are the same as those set forth in Sections 3 and 17 of the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5.

18.1.4 ISDN Line Ports

Regulations and charges for ISDN Line Ports are the same as those set forth in Sections 3 and 17 of the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5.

18.1.5 Lifeline Assistance Plan

As set forth in 4.3 preceding, the End User Common Line Charge shall be reduced by the amount of the Lifeline Assistance Plan ordered by the Public Utility Commission of Texas and approved by the F.C.C. Waiver of the End User Common Line Charge shall not exceed 100 percent of the charge

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.2 Switched Access Service

	<u>Rate</u>	<u>Tariff Section Reference</u>
18.2.1 Nonrecurring Charges		
(A) Local Transport - Installation Per Entrance Facility		6.4.1(B)(1)
- Voice Grade Two Wire	\$100.43	
- Voice Grade Four Wire	\$100.43	
- High Capacity DS1	\$112.90	
- High Capacity DS3	\$287.31	
(B) Interim NXX Translation Per Order	\$ 40.05	6.4.1(B)(2)
Per LATA or Market Area		
(C) FGC and FGD Conversion of Multifrequency Address Signaling to SS7 Signaling or SS7 Signaling to Multifrequency Address Signaling		
- Per 24 Trunks Converted or Fraction thereof on a Per Order Basis	\$128.56	6.4.1(B)(3)
(D) Direct-Trunked Transport Activated		
	<u>Per Order</u>	
- Per 24 Trunks Activated or Fraction thereof on a Per Order Basis	\$123.12	6.4.1(B)(1)
(E) Reserved for Future Use		

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.2 Switched Access Service (Cont'd)

18.2.2 Local Transport

Rate

Tariff
Section
Reference

(A) Premium Access

(1) Entrance Facility
Per Termination

6.1.3(A)(1)

- Voice Grade Two Wire \$ 20.72
- Voice Grade Four Wire \$ 35.66
- High Capacity DS1 \$ 173.53
- High Capacity DS3 \$1,697.38

(2) Direct Trunked Transport
Direct Trunked Facility Per Mile

6.1.3(A)(2)

- Voice Grade \$ 1.16
- High Capacity DS1 \$ 11.36
- High Capacity DS3 \$ 102.46

(3) Direct Trunked Termination
Per Termination

- Voice Grade \$ 11.82
- High Capacity DS1 \$ 36.06
- High Capacity DS3 \$ 351.66

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.2 Switched Access Service (Cont'd)

18.2.2 Local Transport (Cont'd)

Rate

Tariff
Section
Reference

(A) Premium Access (Cont'd)

(4) Multiplexing
Per Arrangement

6.1.3(A)(5)

- DS3 to DS1 \$ 296.55
- DS1 to Voice \$ 114.49

(5) Tandem Switched Transport

6.1.3(A)(3)

- Tandem Switched Facility Per Access \$0.000211
Minute Per Mile
- Tandem Switched Termination \$0.000780
Per Access Minute
Per Termination
- Tandem Switching \$0.000000
Per Access Minute
Per Tandem

(B) Network Blocking Per Blocked Call

- Applies to FGD only \$0.0157

6.8.6

(C) 800 Series Data Base Access Service Queries
Per Query

6.1.3(A)(6)

- Basic \$0.000703
- Vertical Feature \$0.000782

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.2 Switched Access Service (Cont'd)

18.2.2 Local Transport (Cont'd)

(D) Service Provider Number Portability (SPNP) Service

Regulations concerning SPNP are set forth in Section 6.10.2.

Monthly Rate	<u>Per Query</u>
(1) SPNP Query - Prearranged, Per Query	
- End Office	\$0.002723
- Tandem Office	\$0.002723
(2) SPNP Query - Default, Per Query	
- End Office	\$0.002723
- Tandem Office	\$0.002723
(3) Reserved for Future Use	<u>Monthly Rate Per Line</u>
(4) SPNP Surcharge* Per access line or equivalent	\$0.62

* Billed over a 60 month period from April 11, 2003 to April 11, 2008.

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.2 Switched Access Service (Cont'd)

18.2.3 End Office	<u>Rate</u>	<u>Tariff Section Reference</u>
(A) Local Switching		
(1) Premium Per Access Minute	\$0.008977	6.1.3(B)(1)
(2) Non-Premium Per Access Minute	\$0.004040	6.1.3(B)(1)
(B) Information Surcharge		
(1) Premium Per 100 Access Minutes	\$0.015539	6.1.3(B)(2)
(2) Non-Premium Per 100 Access Minutes	\$0.006993	6.1.3(B)(2)

18.2.4 Reserved for future use.

18.2.5 Reserved for future use.

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.2 Switched Access Service (Cont'd)

18.2.6 Assumed Minutes of Use	<u>Assumed Minutes Per Month</u>	<u>Tariff Section Reference</u>
(A) Feature Group A, Two Way Calling (1510 Originating, 2685 Terminating)	4195	6.5.4
(B) Feature Group A, Originating Only	1510	6.5.4
(C) Feature Group A, Terminating Only	2685	6.5.4
(D) Feature Group B, Two Way Calling (3132 Originating, 5568 Terminating)	8700	6.6.4
(E) Feature Group B, Originating Only	3132	6.6.4
(F) Feature Group B, Terminating Only	5568	6.6.4

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service

18.3.1 Surcharge for Special Access Service

The surcharge for Special Access Service is the same as that set forth in Section 17 of the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5.

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.2 Metallic Service

Services per this section are not available.

18.3.3 Telegraph Grade Service

Services per this section are not available

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.4 Voice Grade Service

Regulations concerning Voice Grade Service are set forth in Section 7.4 of the Tariff

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Channel Termination Per Termination		
- Two-Wire	\$20.72	\$100.43
- Four-Wire	\$35.66	\$100.43
(B) Channel Mileage		
(1) Channel Mileage Facility		
Per Mile	\$1.16	
(2) Channel Mileage Termination		
Per Termination	\$11.82	
(C) Optional Features and Functions		
(1) Bridging		
(a) Voice Bridging Per Port		
- Two-Wire	\$ 4.40	
- Four-Wire	\$ 4.40	

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.4 Voice Grade Service (Cont'd)

		<u>Monthly Rate</u>
(C)	Optional Features and Functions (Cont'd)	
(1)	Bridging (Cont'd)	
(b)	Data Bridging per port	
-	Two-Wire	\$ 4.06
-	Four-Wire	\$ 4.06
(c)	Telephoto Bridging per port	
-	Two-Wire	N/A
-	Four-Wire	N/A
(d)	Reserved for Future Use	
(e)	Reserved for Future Use	

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.4 Voice Grade Service (Cont'd)

		<u>Monthly Rate</u>
(C)	Optional Features and Functions (Cont'd)	
(2)	Conditioning Per Termination	
-	C Type	\$ 4.51
-	Improved Attenuation Distortion*	None
-	Improved Envelope Delay Distortion*	None
-	Data Capability	\$ 3.36
(3)	Improved Return Loss for Effective Two-Wire or Four-Wire Transmission Per Termination	
-	Two-Wire	\$ 8.67
-	Four-Wire	\$ 8.67
(4)	Customer Specified Receive Level per two-wire termination	\$ 5.51

* Improved Attenuation Distortion and Improved Envelope Delay Distortion will continue to be provided to all customers who were provided with either or both of these optional features in conjunction with C-Type Conditioning prior to May 4, 1988.

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.4 Voice Grade Service (Cont'd)

	<u>Monthly Rate</u>
(C) Optional Features and Functions (Cont'd)	
(5) Multiplexing Per arrangement Voice to Telegraph Grade	N/A
(6) Signaling Capability Per termination	\$ 8.77
(7) Selective Signaling Arrangement Per arrangement	N/A
(8) Transfer Arrangement (key activated* or dial up**)	
- Per four port arrangement including control channel termination***	N/A
- Per five port arrangement including control channel termination***	N/A

ICB rates and charges are filed in Section 18.3.9 following.

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

** The Dial-up option requires the customer to purchase the Controller Arrangement from the Tariff.

*** An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer designated premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.5 Program Audio Service

Services per this section are not available.

18.3.6 Video Service

Services per this section are not available

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.7 Digital Data Service

Regulations concerning Digital Data Service are Service are set forth in Section 7.6 of the Tariff.

		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A)	Channel Termination Per Termination		
-	2.4 kbps	\$ 31.74	\$110.41
-	4.8 kbps	31.74	110.41
-	9.6 kbps	31.74	110.41
-	19.2 kbps	31.74	110.41
-	56.0 kbps	33.01	110.41
-	64.0 kbps	33.01	110.41
(B)	Channel Mileage		
(1)	Channel Mileage Facility Per Mile		
-	2.4 kbps	\$1.53	
-	4.8 kbps	1.53	
-	9.6 kbps	1.53	
-	19.2 kbps	1.53	
-	56.0 kbps	1.63	
-	64.0 kbps	1.63	
(2)	Channel Mileage Termination Per Termination		
-	2.4 kbps	\$14.49	
-	4.8 kbps	14.49	
-	9.6 kbps	14.49	
-	19.2 kbps	14.49	
-	56.0 kbps	15.42	
-	64.0 kbps	15.42	

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.7 Digital Data Service (Cont'd)

		<u>Monthly Rate</u>
(C)	Optional Features and Functions	
(1)	Bridging Per port	\$ 4.91
(2)	Loop Transfer Arrangement Per four port arrangement* Key activated** or Dial-Up***	\$ 3.89
(D)	Reserved for Future Use	

* An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer designated premises. Additional Channel Mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.

** The key activated control channel is rated as a metallic Channel Termination and Channel Mileage, if applicable.

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

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3.8 Special Access Service (Cont'd)

18.3.8 High Capacity Service

Regulations concerning High Capacity Service are set forth in Section 7.7 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Channel Termination Per Termination		
- 1.544 Mbps	\$ 173.53	\$ 112.90
- 44.736 Mbps	1,697.38	311.27

	<u>Monthly Rate</u>
(B) Channel Mileage	
(1) Channel Mileage Facility Per Mile	
- 64 kbps*	\$ 1.63
- 1.544 Mbps	11.36
- 44.736 Mbps	102.46
(2) Channel Mileage Termination Per Termination	
- 64 kbps*	\$ 15.42
- 1.544 Mbps	36.06
- 44.736 Mbps	351.66

* Applies to through connections of 2.4, 4.8, 9.6, 56.0 and 64 kbps.

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.8 High Capacity Service (Cont'd)

		<u>Monthly Rate</u>
(C)	Term Discounts	<u>Percentage</u>
	DS1 and DS3 Services	
	- 36 Months	10%
	- 60 Months	20%
(D)	Optional Features and Functions	
(1)	Multiplexing, per arrangement	
	DS3 to DS1	\$296.55
	DS1 to Voice*	\$114.49
	DS1 to DSO	\$114.49
	DSO to Subrates	
	- Up to 20 2.4 kbps services	\$249.03
	- Up to 10 4.8 kbps services	180.00
	- Up to 5 9.6 kbps services	157.02

* A channel of this DS1 to the Hub can be used for Digital Data service.

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.8 High Capacity Service (Cont'd)

		<u>Monthly Rate</u>
(D)	Optional Features and Functions (Cont'd)	
(2)	Automatic Loop Transfer Per arrangement*	\$ 126.67
(3)	Transfer Arrangement (key activated** or dial up***) Per four port arrangement including control channel termination****	\$ 107.67
(E)	Reserved for Future Use	

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

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

*** The Dial-up option requires the customer to purchase the Controller Arrangement from Section 18.4.4(H) of the Tariff.

**** An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer designated premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.9 Individual Case Filings

Reserved for future use.

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.4 Other Services

18.4.1 Access Ordering

	<u>Charge</u>	<u>Tariff Section Reference</u>
(A) Access Order Charge		
Per order	\$81.00	5.4.1
(B) Service Date Change Charge		
A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The Access Order Charge as specified in 18.4.1(A) preceding does not apply. The applicable charge is:		
Service Date Change Charge, per order	\$ 34.00	5.4.3
(C) Design Change Charge		
The Design Change Charge will apply on a per order per occurrence basis, for each order requiring design change. The applicable charge is:		
Design Change Charge, per order	\$ 34.00	5.4.3
(D) Miscellaneous Service Order Charge		
Per Occurrence	\$ 34.00	5.4.2

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.2 Additional Engineering

	<u>Additional Engineering Periods</u>	<u>Each Half Hour or Fraction Thereof</u>	<u>Tariff Section Reference</u>
(A)	Basic Time per engineer normally scheduled working hours	\$18.36	13.1
(B)	Overtime per engineer outside of normally scheduled working hours	\$27.53	13.1
(C)	Premium Time per engineer outside of scheduled work day.	\$36.72	13.1

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.3 Additional Labor

	<u>Additional Labor Periods</u>	<u>Each Half Hour or Fraction Thereof</u>	<u>Tariff Section Reference</u>
(A)	Installation or Repair		
-	Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	\$29.88*	13.2.1 & 13.2.2
-	Premium Time, outside of scheduled work day, per technician	\$39.84*	13.2.1 & 13.2.2
(B)	Stand by		
-	Basic time, normally scheduled working hours, per technician	\$19.50	13.2.3
-	Overtime, outside of normally scheduled working hours on a scheduled work day per technician	\$29.24	13.2.3
-	Premium Time, outside of scheduled work day, per technician	\$38.99	13.2.3

* 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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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.3 Additional Labor (Cont'd)

(C) Additional Labor Periods

Each Half Hour or Fraction Thereof

	<u>Installation and Repair Technician</u>	<u>Central Office Maintenance Technician</u>	<u>Tariff Section Reference</u>
Testing and Maintenance with other Telephone Companies, or Other Labor			
- Basic Time per technician normally scheduled working hours	\$19.93	\$19.13	13.2.4 & 13.2.5
- Overtime per technician outside of normally scheduled working hours on a scheduled work day	\$29.88*	\$28.68*	13.2.4 & 13.2.5
- Premium Time per technician outside of scheduled work day	\$39.84	\$38.24*	13.2.4 & 13.2.5

* 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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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.4 Miscellaneous Services

(A) Additional Cooperative Acceptance Testing - Switched Access

<u>Testing Periods</u>	<u>Each Half Hour or Fraction Thereof</u>	<u>Tariff Section Reference</u>
Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 18.4.3(C) preceding.	13.3.1(A)(1)

(B) Additional Automatic Testing - Switched Access

To First Point of Switching

Additional Tests

	<u>Per Test Per Transmission Path</u>	
Gain-Slope Tests	\$2.89	13.3.1(A)(2)
C-Notched Noise Tests	\$2.89	13.3.1(A)(2)
1004 Hz Loss**	\$2.89	13.3.1(A)(2)
C-Message Noise**	\$2.89	13.3.1(A)(2)
Balance (return loss)**	\$2.89	13.3.1(A)(2)

* 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.

** 1004 Hz Loss, C-Message Noise and Balance are non-chargeable routine tests, however, they may be requested on an as needed or more than routine scheduled basis, in which case the charges herein apply.

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.4 Miscellaneous Services (Cont'd)

(C) Additional Manual Testing - Switched Access
To First Point of Switching

Additional Tests

Each Half Hour
or Fraction
Thereof

Tariff
Section
Reference

Gain-Slope,
C-Notched Noise and
any other agreed to
tests, per technician

See the rates
for Additional
Labor as set
forth in 18.4.3(C)
preceding

13.3.1(A)(3)

(D) Additional Cooperative Acceptance
Testing - Special Access

Testing Periods

Each Half
Hour or
Fraction
Thereof

Tariff
Section
Reference

Basic Time, Overtime*
and Premium Time*

See the rates
for Additional
Labor as set
forth in 18.4.3(C)
preceding.

13.3.1(B)(1)

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

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.4 Miscellaneous Services (Cont'd)

(E) Additional Manual Testing - Special Access

<u>Testing Periods</u>	<u>Each Half Hour or Fraction Thereof</u>	<u>Tariff Section Reference</u>
Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 18.4.3(C) preceding.	13.3.1(B)(2)

(F) Maintenance of Service

<u>Maintenance of Service Periods</u>	<u>Each Half Hour or Fraction Thereof</u>	<u>Tariff Section Reference</u>
Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 18.4.3(C) preceding	13.3.2

* 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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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.4 Miscellaneous Services (Cont'd)

(G) Telecommunications Service Priority (TSP)

Nonrecurring
Charge

Section
Reference

Per service arranged \$54.63 13.3.3

(H) Controller Arrangement

Monthly
Rate

Per Arrangement N/A

(I) Presubscription Nonrecurring
Charge

Per Telephone Exchange Service line or trunk* \$5.00 13.4

(J) Reserved for Future Use

(K) Blocking Service**

Per exchange service line or trunk and/or per Feature Group A Switched Access line \$11.20 13.3.7

* This charge is generally billed to the end user who is the subscriber to the Telephone Exchange Service. In those instances where the IC both requests the presubscription change, and requests the associated charge be billed to it, the Telephone Company will bill the IC. In the event the subscriber is incorrectly presubscribed due to misassignment on the part of the Telephone Company, no charge shall apply. In the event the subscriber denies requesting a presubscription change, the Telephone Company will credit the subscriber's account for the presubscription change charge associated with the alleged unauthorized change, if such charge was billed to the subscriber. The Telephone Company will then bill the IC responsible for the alleged unauthorized change a presubscription change charge to return the subscriber to its previous authorized carrier and, if initially billed to the subscriber, the presubscription change charge for the alleged unauthorized change.

** Blocking access to 900 Service is offered to all subscribers at no charge at the time telephone service is established at a new number and for 60 days thereafter.

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.4 Miscellaneous Services (Cont'd)

(L)	Billing Name and Address Service	<u>Nonrecurring Charge</u>	<u>Tariff Section Reference</u>
-	Per BNA Order	\$50.94	13.3.4
-	Per BNA Record	\$0.33	13.3.4
-	Optional Magnetic Tape Charge - Per Magnetic Tape	\$91.44	13.3.4
-	Optional Format Programming Charge Per Hour	\$37.20	13.3.4
(M)	Originating Line Screening (OLS) Service		
-	Per exchange service line	\$7.95	13.3.5
(N)	Coin Supervision Additive Service	<u>Monthly Rate</u>	
-	Per exchange service line	\$2.21	13.3.6
(O)	Flexible Automatic Number Identification (Flex ANI) Service		
-	Per exchange service line	None	6.4.1(B)(5)

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18. Rates and Charges - Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.5 Special Federal Government Access Services

Services per this section are not available

18.4.6 Special Facilities Routing of Access Services

Services per this section are not available.

18.4.7 Specialized Service or Arrangements

Services per this section are not available

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18. Rates and Charges – Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.8 Public Packet Data Network

(A) Reserved for Future Use

(B) Asymmetrical Digital Subscriber Line (ADSL) Service

Regulations concerning ADSL Service are set forth in 16.2.1 preceding.

	Recurring Monthly Rate	Monthly Rate for 1-Year TPP	Recurring Service Order Charge	Nonrecurring Service Order Charge 1-Year TPP	Nonrecurring Installation Rate-Monthly Service	Nonrecurring Installation Rate-1 year TPP
Basic SpeedLink 1.53 Mbps - 384 Kbps downstream 128 Kbps upstream	\$45.00	\$22.00	\$34.00	No charge	\$66.00	No charge
Enhanced SpeedLink 1.53 Mbps - 768 Kbps downstream 256 Kbps upstream	\$65.00	\$55.00	\$34.00	No charge	\$66.00	No charge

(2) Promotional Offerings

During the time period between March 1, 2004 and May 31, 2004, the Telephone Company will waive the first month of recurring monthly charges for any new ADSL customer or current month-to-month customer who commits to at least a one-year TPP (Term Pricing Plan). If the ADSL line is disconnected for any reason prior to the end of the 12-month minimum commitment period, the Telephone Company will bill the customer an amount equal to the waived recurring charges and any termination fees. (Z)

(3) Reserved for Future Use

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18. Rates and Charges – Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.8 Public Packet Data Network (Cont'd)

(B) Asymmetrical Digital Subscriber Line (ADSL) Service (Cont'd)

(4) Telecommunications Service Provider Service Access (TSPSA)

Regulations concerning TSPSA are set forth in Section 16.2.2 preceding.

	Monthly Rate for <u>1 Year TPP</u>	Installation Rate- 1 year <u>TPP *</u>	Monthly Rate for <u>3 Years TPP</u>	Installation Rate – 3 year <u>TPP*</u>
<u>NGI PORT</u>				
1.53 Mbps NGI Port	\$ 450.00	702.00	346.00	102.00
44.7 Mbps NGI Port	\$2,520.00	1,250.00	2,040.00	825.00
155.5 Mbps NGI Port	\$3,250.00	1,250.00	2,770.00	825.00
<u>UNI PORT</u>				
1.53 Mbps UNI Port	\$700.00	1,200.00	600.00	600.00
44.7 Mbps UNI Port	\$3,200.00	2,000.00	2,700.00	1,200.00
155.5 Mbps UNI Port	\$4,200.00	2,000.00	3,700.00	1,200.00
<u>IMA UNI PORT</u>				
3 Mbps	\$1,300.00	1,300.00	1,100.00	900.00
4.5 Mbps	\$1,580.00	1,700.00	1,375.00	1,050.00
6 Mbps	\$1,860.00	2,000.00	1,650.00	1,200.00
12 Mbps	\$2,800.00	3,500.00	2,475.00	1,500.00
<u>NL PORT</u>				
1.53 Mbps	\$1,100.00	1,200.00	1,000.00	600.00
<u>IMA NL PORT</u>				
3 Mbps	\$2,200.00	1,300.00	2,000.00	900.00
4.5 Mbps	\$3,300.00	1,700.00	3,000.00	1,050.00
6 Mbps	\$4,400.00	2,000.00	4,000.00	1,200.00
12 Mbps	\$8,800.00	3,500.00	8,000.00	1,500.00

* Installation charges are in addition to a non-recurring Service Order Charge of \$70.00 per order processed.

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18. Rates and Charges – Fort Bend Telephone Company (Cont'd)

18.4 Other Services (Cont'd)

18.4.8 Public Packet Data Network (Cont'd)

(B) Asymmetrical Digital Subscriber Line (ADSL) Service (Cont'd)

(4) Telecommunications Service Provider Service Access (TSPSA)
(Cont'd)

	<u>Monthly Rate</u>	<u>Installation Rate</u>
VCC	\$18.00	\$40.00
VPC	\$28.00	\$40.00
CBR	\$15.00	\$ 0.00

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ACCESS SERVICE

19. Special Construction

19.1. Application of Section

This section contains regulations, rates, charges and liabilities applicable for the special construction of interstate facilities provided by the Issuing, Concurring, Connecting or Other Participating Carriers of this tariff, hereinafter referred to as 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 other sections of this tariff.

19.2. Regulations

19.2.1 Filing of Charges

Rates, charges and liabilities for special construction to provide facilities for use for one month or more are filed in Section 19.3. and 19.4., following, as appropriate.

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

19.2.2 Ownership of Facilities

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

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

19.2.3 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.

19.2.4 Special Construction Involving Both Interstate and Intrastate Facilities

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

19.2.5 Payments for Special Construction

(A) Payment of Charges

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

(B) Start/End of Billing

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

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

19.2.5 Payments for Special Construction

(C) Credit Allowance for Service Interruptions

In the event of a service interruption involving a specially constructed facility, the customer shall receive a recurring monthly charge credit in accordance with the credit allowance provisions in the appropriate service tariff associated with 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 19.2.6(D)(1)(d) 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.

19.2.6 Liabilities and Charges for Special Construction

(A) General

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

(B) 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 exist:

- The Telephone Company has no other requirement for the facilities requested.

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

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

(B) Conditions Requiring Special Construction (Cont'd)

- 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.

(C) 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.

(D) 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:

(1) Nonrecurring Charge

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

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

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

(D) Types of Liabilities and Charges (Cont'd)

(1) Nonrecurring Charge (Cont'd)

(a) Case Preparation Charge

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

(b) 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 non-expedited construction.

(c) Optional Payment

An optional payment charge may be included in the nonrecurring charge in association with a type of facility or route other than that which the 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 or the total non-recoverable 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.

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

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

(D) Types of Liabilities and Charges (Cont'd)

(1) Nonrecurring Charge (Cont'd)

(d) 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.

(e) 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.

(f) 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.

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

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

(D) Types of Liabilities and Charges (Cont'd)

(2) Maximum Termination Liability and Termination Charge

- (a) A Maximum Termination Liability is equal to the non-recoverable costs associated with specially constructed facilities and is the maximum amount which could be applied as a Termination Charge if all specially constructed facilities were discontinued before the Maximum Termination Liability expires. The liability period is equal to the average life of the account associated with the specially constructed facilities. The liability period is generally expressed in terms of an effective and expiration date.
- (b) 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.

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

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

(D) Types of Liabilities and Charges (Cont'd)

(2) Maximum Termination Liability and Termination Charge

(c) Example Illustrating a 27-Year Average Account Life

Maximum Termination <u>Liability</u>	Effective <u>Date</u>	Expiration <u>Date</u>
\$10,000	6/1/84	6/1/94
7,000	6/1/94	6/1/04
3,000	6/1/04	6/1/11

Prior to the expiration of each liability period, the customer has the option to (A) terminate the special construction case and pay the appropriate charges, or (B) extend the use of the specially constructed facilities for the new liability period.

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 non-recoverable 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.

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

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

(D) Types of Liabilities and Charges (Cont'd)

(2) Maximum Termination Liability and Termination Charge

- (d) 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 partial termination to list remaining Maximum Termination Liability amounts and the number of specially constructed facilities the customer will remain liable for.

Example

A customer with a filed Maximum Termination Liability of \$100,000 for 3600 specially constructed facilities requests a partial termination of 900 facilities. The Termination Charge for all facilities, at the time of election, is \$60,000. The partial termination charge, in this example, is \$60,000 x 900/3600, or \$15,000.

(3) Annual Underutilization Liability and Underutilization Charge

- (a) 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.
- (b) 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.

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

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

(D) Types of Liabilities and Charges (Cont'd)

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

(c) 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.

(d) 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.

(e) Annually thereafter, the number of underutilized facilities, if any, existing on the anniversary of the ILP expiration date will be multiplied by the annual underutilization liability amount to determine the underutilization charge for the preceding 12 month period.

(f) 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 $\$2.00 \text{ per pair} \times 20 \text{ pairs} \times 5 \text{ years}$.

If 420 pairs are in service at the end of the 6th year, there is no underutilization, i.e., $420 - 420 = 0$.

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

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

(D) Types of Liabilities and Charges (Cont'd)

(4) Recurring Monthly Charges

(a) 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.

- (i) When an Optional Payment Charge as set forth in 19.2.6(D)(1)(c) preceding has been elected, the recurring monthly charge will be reduced to include specially constructed facility operating expenses only.
- (ii) If the actual cost option as set forth in 19.2.6 (C) 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.

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

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

(D) Types of Liabilities and Charges (Cont'd)

(5) 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.

(6) Cancellation Charge

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

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

19.2.7 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:

(A) Construction Has Not Begun

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

(B) Construction Has Begun

If the construction of facilities has begun before the Telephone Company receives a request for deferral, charges will vary as follows:

(1) All Services Are Deferred

When all services which will use specially constructed facilities are deferred, a charge based on the costs incurred by the Telephone Company during each month of the deferral will apply. Those costs include the recurring costs for that portion of the facilities already completed and any other costs associated with the deferral. The cost of any components of the nonrecurring charge which have been completed at the time of deferral will also apply.

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

19.2.7 Deferral of Start of Service (Cont'd)

(B) Construction Has Begun (Cont'd)

(2) 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.

(C) 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.

19.2.8 Definitions

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

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

(C) 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.

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

(E) 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.

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

19.2.8 Definitions (Cont'd)

- (F) Installed Cost - The term "Installed Cost" denotes the total investment (estimated or actual) required by the Telephone Company to provide specially constructed facilities.
- (G) 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.
- (H) 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.
- (I) Net Salvage - The term "Net Salvage" denotes the estimated scrap, sales, 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.
- (J) 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.
- (K) 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.
- (L) Normal Cost - The term "Normal Cost" denotes the estimated cost to provide services using normal construction.
- (M) Permanent Facilities - The term "Permanent Facilities" denotes facilities providing service for one month or more.
- (N) Recoverable Cost - The term "Recoverable Cost" denotes the cost of the specially constructed facilities for which the Telephone Company has a foreseeable reuse, either in place or elsewhere, should the service be terminated.

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19. Special Construction (Cont'd)

19.2. Regulations (Cont'd)

19.2.8 Definitions (Cont'd)

- (O) 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.

19.3 Reserved for Future Use

19.4 Charges to Provide Permanent Facilities

This section contains special construction charges to provide permanent facilities. Charges are developed on an individual case basis.

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