

ACCESS SERVICES TARIFF

14. Exceptions to Access Service Offerings (M)

The services offered under the provisions of this tariff are subject to availability as set forth in 2.1.4 preceding. In addition, the following exceptions apply:

(Paragraphs 14.1 through 14.5 following are reserved for future listings as a result of a subsequent survey. In the meantime, in planning an end-to-end service, the Customer should contact the Telephone Company in each Customer premises city to assure itself that all of the service or service components required for a given Customer service are currently available.)

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

(Reserved for future use.)

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

(Reserved for future use.)

14.3 The following offering(s) is (are) limited to existing locations. Inside moves or rearrangements may be undertaken. However, no additions will be permitted.

(Reserved for future use.)

14.4 The following offering(s) is (are) limited to existing locations where additional units may be added for growth. Inside moves or rearrangements may be undertaken.

(Reserved for future use.)

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

(Reserved for future use.)

(M)

Certain regulations appearing on this page formerly appeared on page 658 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (S) (y)
 - 15.1 Switched Access Service | |
 - 15.1.1 Local Transport-Interface Groups | |

Interface Groups are provided for terminating the Local Transport 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, the individual transmission path between the Customer's designated premises and the first point of switching may at the option of the Customer be provided with optional features as set forth in the respective Feature Group preceding.

Interface Group 1 is provided with Type C Transmission Specifications, and Interface Groups 2 through 6 are provided with Type A or B Transmission Specifications, depending on the Feature Group and whether the Access Service is routed directly or through an access tandem. All Interface Groups are provided with Data Transmission Parameters.

Only certain premises interfaces are available at the Customer's designated premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups. The various premises interfaces which are available with the Interface Groups, and the Feature Groups with which they may be used, are set forth following.
- (x) Issued on not less than 1 day's notice under authority of special permission number 86-142 of the Federal Communications Commission.
- (y) Reissued material effective March 1, 1986.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.1 Local Transport-Interface Groups (Continued)

(a) Interface Group 1 (USOC TPPIX)

Interface Group 1, except as set forth following, provides two-wire voice frequency transmission at the point of termination at the Customer's 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 FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB or FGD when the first point of switching provides only four-wire terminations. (C)

The transmission path between the point of termination at the Customer's designated premises and the first point of switching 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.

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15. Technical Specifications (Continued)15.1 Switched Access Service (Continued)15.1.1 Local Transport-Interface Groups (Continued)(a) Interface Group 1 (USOC TPPIX) (Continued)

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 or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling. (C)

(b) Interface Group 2 (USOC TPP2X)

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the Customer's 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's designated premises and the first point of switching 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.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)15.1 Switched Access Service (Continued)15.1.1 Local Transport-Interface Groups (Continued)(b) Interface Group 2 (USOC TPP2X) (Continued)

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 or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling. (C)

(c) Interface Group 3 (USOC TPP3X)

Interface Group 3 provides group level analog transmission at the point of termination at the Customer's designated premises. The interface is capable of transmitting electrical signals between the frequencies of 60 to 108 kHz, with the capability to channelize up to 12 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex equipment to derive 12 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with individual transmission path SF supervisory signaling.

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15.	<u>Technical Specifications</u> (Continued)	(S) (y)
15.1	<u>Switched Access Service</u> (Continued)	
15.1.1	<u>Local Transport-Interface Groups</u> (Continued)	
(d)	<u>Interface Group 4 (USOC TPP4X)</u>	
	Interface Group 4 provides supergroup level analog transmission at the point of termination at the Customer's designated premises. The interface is capable of transmitting electrical signals between the frequencies of 312 to 552 kHz, with the capability to channelize up to 60 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 60 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.	(S) (y) (T) (x) (S) (y)
	The interface is provided with individual transmission path SF supervisory signaling.	 (S) (y)

(x) Issued on not less than 1 day's notice under authority of special permission number 86-142 of the Federal Communications Commission.

(y) Reissued material effective March 1, 1986.

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15.	<u>Technical Specifications</u> (Continued)	(S) (y)
15.1	<u>Switched Access Service</u> (Continued)	
15.1.1	<u>Local Transport-Interface Groups</u> (Continued)	
(e)	<u>Interface Group 5 (USOC TPP5X)</u>	
	Interface Group 5 provides mastergroup level analog transmission at the point of termination at the Customer's designated premises. The interface is capable of transmitting electrical signals between the frequencies of 564 to 3084 kHz, with the capability to channelize up to 600 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 600 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.	 (S) (y) (T) (x) (S) (y)
	The interface is provided with individual transmission path SF supervisory signaling.	 (S) (y)

(x) Issued on not less than 1 day's notice under authority of special permission number 86-142 of the Federal Communications Commission.

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15.	<u>Technical Specifications</u> (Continued)	(S) (y)
15.1	<u>Switched Access Service</u> (Continued)	
15.1.1	<u>Local Transport-Interface Groups</u> (Continued)	
(f)	<u>Interface Group 6 (USOC TPP6X)</u>	
	Interface Group 6 provides DS1 level digital transmission at the point of termination at the Customer's designated premises. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice frequency transmission paths.	(S) (y) (T) (x) (S) (y)
	Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive 24 transmission paths 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, at the first point of switching, a DS1 signal in D3/D4 format.	
	The interface is provided with individual transmission path bit stream supervisory signaling.	 (S) (y)

(x) Issued on not less than 1 day's notice under authority of special permission number 86-142 of the Federal Communications Commission.

(y) Reissued material effective March 1, 1986.

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15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.1 Local Transport-Interface Groups (Continued)

(g) Available Premises Interface Codes

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

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group</u>				
			<u>A</u>	<u>B</u>	<u>D</u>		
1	LO	2LS2	X			(C)	
	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			
	RV, EA, EB, EC	4EA3-E		X	X		
	RV, EA, EB, EC	4EA3-M		X	X		
	RV, EA, EB, EC	6EB3-E		X	X		
	RV, EA, EB, EC	6EB3-M		X	X		
	EA, EB, EC	6EC3		X			
	RV	2RV3-0		X	X		
	RV	2RV3-T		X	X		
	SS7	2NO2		X			(N)
	2	LO, GO	4SF2	X			
		LO, GO	4SF3	X			
LO		4LS2	X				
LO		4LS3	X				
LO		6LS2	X				
GO		4GS2	X				

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15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.1 Local Transport-Interface Groups (Continued)

(g) Available Premises Interface Codes (Continued)

Interface Group	Telephone Company	Premises Interface Code	Feature Group			(C)
			Switch	A	B	
2 (Continued)	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	
	RV, EA, EB, EC	4SF3		X		
	RV, EA, EB, EC	4DX2		X	X	
	RV, EA, EB, EC	4DX3		X		
	RV, EA, EB, EC	6EA2-E		X	X	(D)
	RV, EA, EB, EC	6EA2-M		X	X	
	RV, EA, EB, EC	8EB2-E		X	X	
	RV, EA, EB, EC	8EB2-M		X	X	
	EA, EB, EC	8EC2-M			X	
	RV	4RV2-O		X	X	
	RV	4RV2-T		X	X	
RV	4RV3-O		X		(C)	
RV	4RV3-T		X		(C)	
SS7	4NO2			X	(N)	
3	LO, GO	4AH5-B		X		(M)
	RV, EA, EB, EC	4AH5-B	X	X		
	SS7	4AH5-B			X	(N)
4	LO, GO	4AH6-C		X		
	RV, EA, EB, EC	4AH6-C	X	X		
	SS7	4AH6-C			X	(N) (M)

Certain material on this page formerly appeared on 1st Revised Page 512.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.1 Local Transport-Interface Groups (Continued)

(g) Available Premises Interface Codes (Continued)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group				(C)
			A	B	D		
5	LO, GO	4AH6-D			X		
	RV, EA, EB, EC	4AH6-D	X	X			
	SS7	4AH6-D			X		(N)
6	LO, GO	4DS9-15			X		
	LO, GO	4DS9-15L			X		
	RV, EA, EB, EC	4DS9-15	X	X			
	RV, EA, EB, EC	4DS9-15L	X	X			
	SS7	4DS9-15			X		(N)
7	LO, GO	4DS9-31			X		(N)
	LO, GO	4DS9-31L			X		
	RV, EA, EB, EC	4DS9-31	X	X			
	RV, EA, EB, EC	4DS9-31L	X	X			
	SS7	4DS9-31			X		
8	LO, GO	4DSO-63			X		
	LO, GO	4DSO-63L			X		
	RV, EA, EB, EC	4DSO-63	X	X			
	RV, EA, EB, EC	4DSO-63L	X	X			
	SS7	4DSO-63			X		
9	LO, GO	4DS6-44			X		
	LO, GO	4DS6-44L			X		
	RV, EA, EB, EC	4DS6-44	X	X			
	RV, EA, EB, EC	4DS6-44L	X	X			
	SS7	4DS6-44			X		
10	LO, GO	4DS6-27			X		
	LO, GO	4DS6-27L			X		
	RV, EA, EB, EC	4DS6-27	X	X			
	RV, EA, EB, EC	4DS6-27L	X	X			
	SS7	4DS6-27			X		(N)

Certain material previously found on this page can now be found on 2nd Revised Page 511.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.2 Transmission Specifications

Each Switched Access Service transmission path is provided with standard transmission specifications. There are three different standard specifications (Types A, B and C). The standard for a particular transmission path is dependent on the Feature Group, the Interface Group and whether the service is directly routed or via an access tandem. The available transmission specifications are set forth following. Data transmission Parameters are also provided with each Switch Access Service transmission path. The Telephone Company will, upon notification by the Customer that the data parameters set forth in Sections 15.1.2(A) or 15.1.2(B) are not being met, conduct tests independently or in cooperation with the Customer, and take any necessary action to insure that the data parameters are met.

(D) (x)
 (D) (x)
 (S) (y)
 (S) (y)
 | |
 | |
 (S) (y)

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to the effective date of this tariff, except that service configurations having performance specifications exceeding the standards listed in this provision will be maintained at performance levels specified in this tariff.

- (x) Issued under authority of special permission number 86-357 of the Federal Communications Commission.
- (y) Reissued material effective June 1, 1986.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)15.1 Switched Access Service (Continued)15.1.2 Transmission Specifications (Continued)

The transmission specifications contained in this Section are immediate action limits. Acceptance limits are set forth in Technical Reference PUB 62500. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

(A) Standard Transmission Specifications

Following are descriptions of the three Standard Transmission Specifications available with Switched Access Service Feature Groups. The specific applications in terms of the Feature Groups and Interface Groups with which the Feature Group Standard Transmission Specifications are provided are set forth in Section 6. preceding.

(D) (x)

(1) Type A Transmission Specifications

Type A Transmission Specifications is provided with the following parameters:

(a) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 2.0 dB

(b) 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.

(x) Issued under authority of special permission number 86-357 of the Federal Communication Commission.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
- 15.1 Switched Access Service (Continued) (T)
 - 15.1.2 Transmission Specifications (Continued)
 - (A) Standard Transmission Specifications (Continued)
 - (1) Type A Transmission Specifications (Continued)
 - (c) C-Message Noise (T)

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to: (M)

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	32 dBrnCO
51 to 100	34 dBrnCO
100 to 200	37 dBrnCO
201 to 400	40 dBrnCO
401 to 1000	42 dBrnCO
 - (d) C-Notch Noise (T)

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBrnCO. (M)
 - (e) Echo Control (T)

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 Point of termination (POT) (M)

Certain regulations appearing on this page formerly appeared on page 216 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

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- 15. Technical Specifications (Continued) (N)
- 15.1 Switched Access Service (Continued) (T)
 - 15.1.2 Transmission Specifications (Continued)
 - (A) Standard Transmission Specifications (Continued)
 - (1) Type A Transmission Specifications (Continued)
 - (e) Echo Control (Continued) (T)

to the end office or via an access tandem. It is equal to or greater than the following: (M)

	Echo Return <u>Loss</u>	Singing Return <u>Loss</u>
POT to Access Tandem	21 dB	14dB
POT to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11 dB
 - (f) Standard Return Loss (T)

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: (M)

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

Certain regulations appearing on this page formerly appeared on pages 216 and 217 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(N)
15.1	<u>Switched Access Service</u> (Continued)	(T)
15.1.2	<u>Transmission Specifications</u> (Continued)	
	(A) <u>Standard Transmission Specifications</u> (Continued)	
	(2) <u>Type B Transmission Specifications</u>	(T)
	Type B Transmission Specifications is provided with the	(M)
	following parameters:	(M)
	(a) <u>Loss Deviation</u>	(T)
	The maximum Loss Deviation of the 1004 Hz loss	(M)
	relative to the Expected Measured Loss (EML) is \pm	
	2.5 dB.	(M)
	(b) <u>Attenuation Distortion</u>	(T)
	The maximum Attenuation Distortion in the 404 to	(M)
	2804 Hz frequency band relative to loss at 1004 Hz is	
	-2.0 dB to +4.0 dB.	(M)

Certain regulations appearing on this page formerly appeared on page 217 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (continued)

15.1 Switched Access Service (Continued)

15.1.2 Transmission Specifications (Continued)

(A) Standard Transmission Specifications (Continued)

(2) Type B Transmission Specifications (Continued)

(c) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type B1</u>	<u>Type B2</u>
less than 50	32 dBrnCO	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

* For Feature Group 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. (C)

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.2 Transmission Specifications (Continued)

(A) Standard Transmission Specifications (Continued)

(2) Type B Transmission Specifications (Continued)

(d) C-Notch Noise

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

(e) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for 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 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: (C)

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15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.2 Transmission Specifications (Continued)

(A) Standard Transmission Specifications (Continued)

(2) Type B Transmission Specifications (Continued)

(e) Echo Control (Continued)

	Echo Return <u>Loss</u>	Singing Return <u>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 FGD access (Effective 4-Wire transmission path at end office)	16 dB	11 dB	(C)
. For FGD access (Effective 2-Wire transmission path at end office)	13 dB	6 dB	(C)

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.1 Switched Access Service (Continued) (T)

15.1.2 Transmission Specifications (Continued) |

(A) Standard Transmission Specifications (Continued) |

(2) Type B Transmission Specifications (Continued) |

(f) Standard Return Loss (T)

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: (M)

Echo Return Loss Singing Return Loss |

5 dB 2.5 dB (M)

Certain regulations appearing on this page formerly appeared on page 219 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

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15.	<u>Technical Specifications</u> (Continued)	(N)
15.1	<u>Switched Access Service</u> (Continued)	(T)
15.1.2	<u>Transmission Specifications</u> (Continued)	
(A)	<u>Standard Transmission Performance</u> (Continued)	
(3)	<u>Type C Transmission Specifications</u>	(T)
	Type C Transmission Specifications is provided with the following	(M)
	parameters:	(M)
(a)	<u>Loss Deviation</u>	(T)
	The maximum Loss Deviation of the 1004 Hz loss relative to	(M)
	the Expected Measured Loss (EML) is ± 3.0 dB.	(M)
(b)	<u>Attenuation Distortion</u>	(T)
	The maximum Attenuation Distortion in the 404 to 2804 Hz	(M)
	frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5	
	dB.	(M)

Certain regulations appearing on this page formerly appeared on page 220 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.2 Transmission Specifications (Continued)

(A) Standard Transmission Performance (Continued)

(3) Type C Transmission Specifications (Continued)

(c) 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

* For Feature Group D only Type C2 will be provided. (C)
 For Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference TR-NPL-000334.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.2 Transmission Specifications (Continued)

(A) Standard Transmission Performance (Continued)

(3) Type C Transmission Specifications (Continued)

(d) C-Notch Noise

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

(e) 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 Point of Termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	Echo Return <u>Loss</u>	Singing Return <u>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	(C) (C)

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.2 Transmission Specifications (Continued)

(A) Standard Transmission Specifications (Continued)

(D) (x)

(D) (x)

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ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.2 Transmission Specifications (Continued)

(A) Standard Transmission Specifications (Continued)

(D) (x)

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ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.2 Transmission Specifications (Continued)

(A) Standard Transmission Specifications (Continued)

(D) (x)

(D) (x)

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15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.2 Transmission Specifications (Continued)

(B) Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Feature Group arrangements. The specific applications in terms of the Feature Groups with which they are provided are set forth in Section 6. preceding. Following are descriptions of each.

(D) (x)

(1) Data Transmission Parameters Type DA

(a) Signal to C-Notched Noise Ratio

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

(b) 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

(x) Issued under authority of special permission number 86-357 of the Federal Communications Commission.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
- 15.1 Switched Access Service (Continued) (T)
 - 15.1.2 Transmission Specifications (Continued) |
 - (B) Data Transmission Parameters (Continued) |
 - (1) Data Transmission Parameters Type DA (Continued) |
 - (c) Impulse Noise Counts (T)
 - The Impulse Noise Counts exceeding a 65 dBrnC0 threshold in 15 minutes is no more than 15 counts. (M)
 - (d) Intermodulation Distortion (T)
 - The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than: (M)
 - The Second Order (R2) 33 dB |
 - Third Order (R3) 37 dB (M)
 - (e) Phase Jitter (T)
 - Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5 degrees peak-to-peak. (M)
 - (f) Frequency Shift (T)
 - The maximum Frequency Shift does not exceed -2 to +2 Hz. (M)

Certain regulations appearing on this page formerly appeared on page 222 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
- 15.1 Switched Access Service (Continued) (T)
 - 15.1.2 Transmission Specifications (Continued)
 - (B) Data Transmission Parameters (Continued)
 - (2) Data Transmission Parameters Type DB
 - (a) Signal to C-Notched Noise Ratio (T)
 - The signal to C-Notched Noise Ratio is equal to or greater than 30 dB. (M)
 - (b) Envelope Delay Distortion (T)
 - The maximum Envelope Delay Distortion for the frequency bands and route miles specified is: (M)
 - 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 (M)
 - (c) Impulse Noise Counts (T)
 - The Impulse Noise Counts exceeding a 67 dBmCO threshold in 15 minutes is no more than 15 counts. (M)

Certain regulations appearing on this page formerly appeared on page 223 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(N)
15.1	<u>Switched Access Service</u> (Continued)	(T)
15.1.2	<u>Transmission Specifications</u> (Continued)	
(B)	<u>Data Transmission Parameters</u>	
(2)	<u>Data Transmission Parameters Type DB</u> (Continued)	
(d)	<u>Intermodulation Distortion</u>	(T)
	The Second Order (R2) and Third Order (R3)	(M)
	Intermodulation Distortion products are equal to or greater	
	than:	
	Second Order (R2) 31 dB	
	Third Order (R3) 34 dB	(M)
(e)	<u>Phase Jitter</u>	(T)
	The Phase Jitter over the 4-300 Hz frequency band is less	(M)
	than or equal to 7 degrees peak-to-peak.	(T)
(f)	<u>Frequency Shift</u>	(T)
	The maximum Frequency Shift does not exceed -2 to +2 Hz.	(M)
		(M)

Certain regulations appearing on this page formerly appeared on page 223 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.2 Transmission Specifications (Continued)

(B) Data Transmission Parameters (Continued)

(D) (x)

(D) (x)

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ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (S)
 - 15.1 Switched Access Service (Continued) |
 - 15.1.2 Transmission Specifications (Continued) (S)
- (D)
- (D)

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ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
- 15.1 Switched Access Service (Continued) (T)
 - 15.1.3 Obligations of the Telephone Company (T)

In addition to the obligations of the Telephone Company set forth in Section 2. preceding, the Telephone Company has certain other obligations pertaining only to the provision of Switched Access Service. These obligations are as follows: (M)

 - (A) Network Management (T)

The Telephone Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. Generally, service levels are considered acceptable only when both end users and Customers are able to establish connections with little or no delay encountered within the Telephone Company network. The Telephone Company maintains the right to apply protective controls, i.e., those actions, such as call gapping, which selectively cancel the completion of traffic, over any traffic carried over its network, including that associated with an Customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Telephone Company or Customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Telephone Company result in the complete loss of service by the Customer, the Customer will be granted a Credit Allowance for Service Interruption as set forth in Section 2.4.4(B)(3) preceding. (M)

Certain regulations appearing on this page formerly appeared on page 224 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)15.1 Switched Access Service (Continued)15.1.3 Obligations of the Telephone Company (Continued)(B) Design and Traffic Routing of Switched Access Service

For Feature Group D, the Telephone Company shall design and determine the routing of Switched Access Service, including the selection of the first point of switching and the selection of facilities from the interface to any switching point and to the end offices where busy hour minutes of capacity are ordered. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups. Finally, the Telephone Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment. Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment and the Telephone Company traffic routing plans. If the Customer desires routing or directionality different from that determined by the Telephone Company, the Telephone Company will work cooperatively with the Customer in determining (1) whether the service is to be routed directly to an end office or through an access tandem switch and (2) the directionality of the service. (C)

For Feature Group A and Feature Group B, the line directionality and traffic routing of the Switched Access Service between the Customer's designated premises and the entry switch are determined by the Customer's order for service.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)
- 15.1 Switched Access Service (Continued) (T)
- 15.1.3 Obligations of the Telephone Company (Continued) (T)
- (C) Provision of Service Performance Data (T)
- Subject to availability, end-to-end service performance data available to the Telephone Company through its own service evaluation routines, may also be made available to the Customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and non-completion performance, e.g., Customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff sections, e.g., testing service results. If data are to be provided in other than paper format, the charges for such exchange will be determined on an individual case basis. (M)
- (D) Trunk Group Measurement Reports (T)
- Subject to availability, the Telephone Company will make available trunk group data in the form of usage in CCS, peg count and overflow, to the Customer based on previously agreed to intervals. (M)

Certain regulations appearing on this page formerly appeared on page 225 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)15.1 Switched Access Service (Continued)15.1.3 Obligations of the Telephone Company (Continued)(E) Determination of Number of Transmission Paths

For Feature Group A and Feature Group B, which is ordered on a per line or per trunk basis respectively, the Customer specifies the number of transmission paths in the order for service between the customer's designated premises and the first point of switching. The number of transmission paths between the first point of switching and the Telephone Company's end office is determined by the Telephone Company. The Telephone Company will determine the number of Switched Access Service transmission paths to be provided for the Switched Access Feature Group D busy hour minutes of capacity ordered. A transmission path is a communication path within the frequency bandwidth of approximately 300 to 3000 Hz or a derived communication path of a frequency bandwidth of approximately 300 Hz to 3000 Hz provided over a high frequency analog facility or a high speed digital facility between the Customer's designated premises and a Telephone Company location. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in Section 6. preceding) for the end offices for each Feature Group ordered from a Customer's designated premises. The total busy hour minutes of capacity by type for the end office will be converted to transmission paths using standard Telephone Company traffic engineering methods. (C)

The number of transmission paths provided shall be the number required based on (1) the use of access tandem switches and end office switches, (2) the use of end office switches only, or (3) the use of tandem switches only.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.3 Obligations of the Telephone Company (Continued)

(F) Determination of Number of End Office Transport Terminations

For analog entry switches, a termination will be provided for each transmission path provided. For digital entry switches, an equivalent termination will be provided for each transmission path provided.

(G) Design Blocking Probability

The Telephone Company will design the facilities used in the provision of Switched Access Service to meet the blocking probability criteria as set forth in (1) through (3) following.

- (1) For Feature Group A and B, no design blocking criteria apply.
- (2) For Feature Group D, the design blocking objective will be no greater than one percent (.01) between the point of termination at the Customer's designated premises and the first point of switching when traffic is directly routed without an alternate route. Standard traffic engineering methods will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking. (C)

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.1 Switched Access Service (Continued)

15.1.3 Obligations of the Telephone Company (Continued)

(G) Design Blocking Probability (Continued)

- (3) The Telephone Company will perform routine measurement functions except on Feature Groups A and B, to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional capacity (i.e., busy hour minutes of capacity or trunks) be ordered by the Customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables. (C)

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (S) (y)

15.1 Switched Access Service (Continued)

15.1.3 Obligations of the Telephone Company (Continued)

(G) Design Blocking Probability (Continued)

(3) (Continued)

- (a) For transmission paths carrying only first routed traffic direct between an end office and Customer's designated premises without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

Number of Transmission Paths <u>Per Trunk Group</u>	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m.			
	<u>Per Trunk Group</u>			
	15-20 Measure- <u>ments</u>	11-14 Measure- <u>ments</u>	7-10 Measure- <u>ments</u>	3-6 Measure- <u>ments</u>
2	.070	.080	.090	.140
3	.050	.060	.070	.090
4	.050	.060	.070	.080
5-6	.040	.050	.060	.070
7 or more	.030	.035	.040	.060

(x) Issued on not less than 1 day's notice under authority of special permission number 86-142 of the Federal Communications Commission.

(y) Reissued material effective March 1, 1986.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (S) (y)

15.1 Switched Access Service (Continued)

15.1.3 Obligations of the Telephone Company (Continued)

(G) Design Blocking Probability (Continued)

(3) (Continued)

(b) For transmission paths carrying first routed traffic between an end office and a Customer designated premises via an access tandem, the measured blocking thresholds are as follows: (S) (y)
 (T) (x)
 (S) (y)

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m. Per Trunk Group			
	15-20	11-14	7-10	3-6
	Measure- ments	Measure- ments	Measure- ments	Measure- ments
2	.045	.055	.060	.095
3	.035	.040	.045	.060
4	.035	.040	.045	.055
5-6	.025	.035	.040	.045
7 or more	.020	.025	.030	.040

(x) Issued on not less than 1 day's notice under authority of special permission number 86-142 of the Federal Communications Commission.

(y) Reissued material effective March 1, 1986.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
- 15.2 Special Access Service (T)
- 15.2.1 Service Descriptions (T)
 - For the purposes of ordering, there are seven categories of Special Access Service. These are: (D)
 - Metallic (MT) |
 - Telegraph Grade (TG) |
 - Program Audio (AP) |
 - Voice (VG) (M)
 - Video (TV) (D)
 - Digital Data (DA) (M)
 - High Capacity (HC) |
 - Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the Customer. The components of the service are described in this Section. |
 - Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the Customer will be advised and given the opportunity to change the order. |
 - When a customized channel is ordered the Customer will be notified whether Additional Engineering Charges apply. In such cases, the Customer will be given an estimate of the hours to be billed before any further action is taken on the order. (M)

Certain regulations appearing on this page formerly appeared on page 272 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.2 Special Access Service (Continued)

15.2.1 Service Descriptions (Continued)

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed, or between a Customer designated premises and a WATS Serving Office. (C)
 (C)

Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service. The letter "C" following the two letter code indicates the technical specifications package for a customized service. The letter "w" following the two letter code indicates the technical specifications package for a voice grade Special Access Service used in the provision of WATS or WATS-type service using a Telephone Company designated WATS Serving Office. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the Customer may select any parameter available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix. (N)
 |
 |
 |
 (N)

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)
- 15.2 Special Access Service (Continued) (T)
- 15.2.1 Service Descriptions (Continued) (T)
- Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in this Section in a combination format. (M)
|
| (M)
(T)
- Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in at the end of this 15.2.1. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel. (M)
(M)
(T)
(M)
(M)

Certain regulations appearing on this page formerly appeared on page 273 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
- 15.2 Special Access Service (Continued) (T)
 - 15.2.1 Service Descriptions (Continued) (T)
 - The optional features and functions available with each type of Special Access Service are described in Section 7. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications package listed across the top in this section. (M) (T) (M) | (M) (T)
 - The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards listed in this provision will be maintained at the performance levels specified in this tariff. (M) | | | | |
 - All services installed after the effective date of this tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service: | | | | |
 - Metallic PUB 62502 | | | | |
 - Telegraph Grade PUB 62502 | | | | |
 - Voice Grade PUB 62501 and associated Addendum | | | | |
 - PUB 41004 Table 4 | | | | |
 - Program Audio PUB 62503 and associated Addendum | | | | |
 - Video PUB 62504 and associated Addendum (M) | | | | |
 - Digital Data PUB 62507 (D) | | | | |
 - PUB 62310 (M) | | | | |
 - High Capacity PUB 62508 | | | | |
 - PUB 62411 (M) | | | | |

Certain material appearing on this page formerly appeared on pages 273 and 274 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Services Descriptions (Continued) |

(A) Metallic Service |

(1) Basic Channel Descriptions (T)

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

(2) Technical Specifications Packages (T)

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

The technical specifications are delineated in Technical Reference PUB 62502. (M)

Certain regulations appearing on this page formerly appeared on page 275 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
 - 15.2 Special Access Service (Continued) (T)
 - 15.2.1 Service Descriptions (Continued)
 - (A) Metallic Services (Continued)
 - (3) Channel Interfaces (T)

Compatible channel interfaces are set forth in 15.2.2(E) following. (T)
 - (4) Optional Features and Functions (M)
 - (a) Central Office Bridging Capability (T)
 - (1) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third Customer designated premises. (M)
 - (2) Series Bridging of up to 26 Customer designated premises. (M)
- The following table shows the technical specifications packages with which the optional features and functions are available. (M)
- | | <u>Available with Technical Specifications Package MT-</u> | | |
|-------------------------|--|----------|-------------------|
| | <u>C</u> | <u>1</u> | <u>2</u> <u>3</u> |
| Three Premises Bridging | X | X | X |
| Series Bridging | X | X | |
- (M)

Certain regulations appearing on this page formerly appeared on page 275.1 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
- 15.2 Special Access Service (Continued) (T)
 - 15.2.1 Service Descriptions (Continued)
 - (B) Telegraph Grade Service
 - (1) Basic Channel Description (T)

A Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade channels are provided between Customer designated premises or between a Customer designated premises and a Telephone Company hub. (M)
 - (2) Technical Specifications Packages (T)

<u>Parameter</u>	<u>Package TG-</u>		
	<u>C</u>	<u>1</u>	<u>2</u>
Telegraph Distortion	X	X	X

The technical specifications are delineated in Technical Reference PUB 62502. (M)
 - (3) Channel Interfaces (T)

Compatible channel interfaces are set forth in 15.2.2(E) following. (T)

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ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (S)

15.2 Special Access Service (Continued)

15.2.1 Service Descriptions (Continued)

(B) Telegraph Grade Service (Continued)

(4) Optional Features and Functions

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

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

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

(C) Voice Grade Service

(1) Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. (S)

Voice Grade channels are provided between Customer designated premises, between a Customer designated premises and a WATS Serving Office or between a Customer designated premises and a Telephone Company hub. (N)
 (N)
 (S)

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued)

(C) Voice Grade Service (Continued)

(2) Technical Specifications Packages (T)

Parameter	Package VG-												
	C*	1	2	3	4	5	6	7	8	9	10	11	12
Attenuation													
Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message													
Noise	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control	X	X	X	X	X	X	X	X	X	X	X	X	X
Envelope Delay													
Distortion	X						X	X	X	X	X	X	X
Frequency													
Shift	X						X	X	X	X	X	X	X
Impulse Noise	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
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

* The desired parameters are selected by the Customer from the list of available parameters. (M)

Certain regulations appearing on this page formerly appeared on page 277 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(N)
15.2	<u>Special Access Service</u> (Continued)	(T)
15.2.1	<u>Service Descriptions</u> (Continued)	
	(C) <u>Voice Grade Service</u> (Continued)	
	(2) <u>Technical Specifications Packages</u> (Continued)	(T)
	The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference PUB 62501 and associated Addendum. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference PUB 41004, Table 4.	(M)
	(3) <u>Channel Interfaces</u>	(T)
	The following channel interfaces for Voice Grade service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.	(M)
	The following channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.	(M)
	Compatible channel interfaces are set forth in 15.2.2(E) following.	(T)
		(M)

Certain regulations appearing on this page formerly appeared on page 278 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(N)
15.2	<u>Special Access Service</u> (Continued)	(T)
15.2.1	<u>Service Descriptions</u> (Continued)	
	(C) <u>Voice Grade Service</u> (Continued)	
	(4) <u>Optional Features and Functions</u>	
	(a) <u>Central Office Bridging Capability</u>	
	(1) Voice Bridging (two-wire and four-wire)	(T)
	(2) Data Bridging (two-wire and four-wire)	(T)
	(3) Telephoto Bridging (two-wire and four-wire)	(T)
	(4) DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports	(T) (M) (M)
	(5) Telemetry and Alarm Bridging	(T)
	Split Band, Active Bridging	(M)
	Passive Bridging Summation, Active Bridging	(M)
	(b) <u>Central Office Multiplexing</u>	(T)
	Voice to Telegraph Grade: An arrangement that converts a Voice Grade channel to Telegraph Grade channels using frequency division multiplexing.	(M) (M)

Certain regulations appearing on this page formerly appeared on pages 278 and 279 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(N)
15.2	<u>Special Access Service</u> (Continued)	(T)
15.2.1	<u>Service Descriptions</u> (Continued)	
	(C) <u>Voice Grade Service</u> (Continued)	
	(4) <u>Optional Features and Functions</u> (Continued)	
	(c) <u>Conditioning</u>	(T)
	Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.	(M)
	For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid link or end link. C-Type conditioning and Data Capability may be combined on the same service.	(M)
	(1) <u>C-Type Conditioning</u>	(T)
	C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are:	(M)

Certain regulations appearing on this page formerly appeared on pages 279 and 280 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued)

(C) Voice Grade Service (Continued)

(4) Optional Features and Functions (Continued)

(c) Conditioning (Continued)

(1) C-Type Conditioning (Continued) (T)

Attenuation Distortion (Frequency Response) (M)

Relative to 1004 Hz

Frequency Variation

Range (Hz) (db)

400-2800 -1.0 to +2.0

300-3000 -1.0 to +3.0

3000-3200 -2.0 to +6.0

Envelope Delay Distortion

Frequency Variation

Range (Hz) (micro-seconds)

1000-2600 100

800-2600 200

600-2600 300

500-2800 600

500-3000 3000 (M)

Certain regulations appearing on this page formerly appeared on page 280 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(N)
15.2	<u>Special Access Service</u> (Continued)	(T)
15.2.1	<u>Service Descriptions</u> (Continued)	
	(C) <u>Voice Grade Service</u> (Continued)	
	(4) <u>Optional Features and Functions</u> (Continued)	
	(c) <u>Conditioning</u> (Continued)	
	(2) <u>Sealing Current Conditioning</u>	(T)
	Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.	(M)
	(d) <u>Customer Specified Premises Receive Level</u>	(T)
	This option allows the Customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference PUB 62501.	(M)
	(e) <u>Improved Return Loss</u>	(T)
	(1) On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at	(M)

Certain regulations appearing on this page formerly appeared on 281, 282 and 283 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(S) (y)
15.2	<u>Special Access Service</u> (Continued)	
15.2.1	<u>Service Descriptions</u> (Continued)	
	(C) <u>Voice Grade Service</u> (Continued)	
	(4) <u>Optional Features and Functions</u> (Continued)	
	(e) <u>Improved Return Loss</u> (Continued)	
	(1) (Continued)	(S) (y)
	the Customer's designated premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference PUB 62501.	(T) (x) (S) (y)
	(2) On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the Customer's designated premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference PUB 62501.	 (S) (y) (T) (x) (S) (y) (S) (y)

(x) Issued on not less than 1 day's notice under authority of special permission number 86-142 of the Federal Communications Commission.

(y) Reissued material effective March 1, 1986.

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(N)
15.2	<u>Special Access Service</u> (Continued)	(T)
15.2.1	<u>Service Descriptions</u> (Continued)	
	(C) <u>Voice Grade Service</u> (Continued)	
	(4) <u>Optional Features and Functions</u> (Continued)	
	(f) <u>Data Capability</u>	(T)
	Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or three-point multipoint services. The Signal to C-Notched Noise Ratio and intermodulation distortion parameter for Data Capability are:	(M)
	- Signal to C-Notched Noise Ratio is equal to or greater than 32dB	
	- Intermodulation distortion:	
	- Signal to second order modulation products (R2) is equal to or greater than 38dB.	
	- Signal to third order modulation products (R3) is equal to or greater than 42dB.	
	When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.	(M)

Certain regulations appearing on this page formerly appeared on page 283 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued)

(C) Voice Grade Service (Continued)

(4) Optional Features and Functions (Continued)

(g) Telephoto Capability (T)

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

<u>Attenuation Distortion</u> (1004Hz Reference)	
<u>Frequency Range (Hz)</u>	<u>Variation (db)</u>
500-3000	-0.5 to +1.5
300-3200	-1.0 to +2.5

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

(M)

Certain regulations appearing on this page formerly appeared on page 283.1 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(N)
15.2	<u>Special Access Service</u> (Continued)	(T)
15.2.1	<u>Service Descriptions</u> (Continued)	
	(C) <u>Voice Grade Service</u> (Continued)	
	(4) <u>Optional Features and Functions</u> (Continued)	
	(h) <u>Signaling Capability</u>	(T)
	Signaling Capability provides for the process by which one	(M)
	Customer premises alerts another Customer premises on the	
	same service with which it wishes to communicate.	(M)
	(i) <u>Selective Signaling Arrangement</u>	(T)
	An arrangement that permits code selective ringing for up	(M)
	to ten codes on a multipoint service.	(M)
	(j) <u>Transfer Arrangement</u>	(T)
	An arrangement that affords the Customer an additional	(M)
	measure of flexibility in the use of their access channel(s).	
	The arrangement can be utilized to transfer a leg of a	
	Special Access Service to another channel that terminates	
	in either the same or a different Customer premises. A key	
	activated or dial-up control service is required to operate	
	the transfer arrangement. A spare channel, if required, is	
	not included as part of the option.	(M)

Certain regulations appearing on this page formerly appeared on pages 283.1 and 283.2 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued) |

(C) Voice Grade Service (Continued) |

(4) Optional Features and Functions (Continued) (T)

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

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

Certain regulations appearing on this page formerly appeared on page 284 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued)

(D) Program Audio Service

(1) Basic Channel Description (T)

A Program Audio channel is a channel measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the Customer. Only one-way transmission is provided. Program Audio channels are provided between Customer designated premises or between a Customer designated premises and a Telephone Company hub. (M)

(2) Technical Specifications Packages (T)

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

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

* The desired parameters are selected by the Customer from the list of available parameters. (M)

Certain regulations appearing on this page formerly appeared on page 285 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
- 15.2 Special Access Service (Continued) (T)
 - 15.2.1 Service Descriptions (Continued)
 - (D) Program Audio Service (Continued)
 - (3) Channel Interfaces (T)

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

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

Compatible channel interfaces are set forth in 15.2.2(E) following. (T)
 - (4) Optional Features and Functions
 - (a) Central Office Bridging Capability (T)

Distribution Amplifier (M)
 - (b) Gain Conditioning (T)

Control of 1004 Hz AML at initiation of service to $\text{OdB} \pm 0.5 \text{ dB}$. (M)
 - (c) Stereo (T)

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

Certain regulations appearing on this page formerly appeared on pages 285 and 286 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued)

(D) Program Audio Service (Continued)

(4) Optional Features and Functions (Continued)

(c) Stereo (Continued) (T)

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

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

(M)

Certain regulations appearing on this page formerly appeared on page 286 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
- 15.2 Special Access Service (Continued) (T)
 - 15.2.1 Service Descriptions (Continued)
 - (E) Video Service
 - (1) Basic Channel Description (T)

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

Certain regulations appearing on this page formerly appeared on page 287 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued)

(E) Video Service (Continued)

(2) Technical Specifications Packages (T)

<u>Parameter</u>	<u>Package TV-</u>		
	<u>C*</u>	<u>1</u>	<u>2</u>
Amplitude vs. Frequency Response	X		
Chrominance/Luminance Inequalities			
Gain	X	X	X
Delay	X	X	X
Chrominance/Luminance			
Intermodulation	X		
Chrominance Nonlinear Gain	X		
Chrominance Nonlinear Phase	X		
Crosstalk	X		
Differential Gain	X	X	X
Differential Phase	X	X	X
Dynamic Gain (picture and sync signal)	X		
Field-Time Distortion	X	X	X
Gain/Frequency Distortion	X	X	X
Gain Stability	X	X	X
Insertion Gain	X	X	X
Line-Time Distortion	X	X	X
Long-Time Distortion	X	X	X
Luminance Nonlinearity	X		
Luminance Signal/CCIR			
Weighted Noise	X	X	X
Short-Time Distortion			
2 T Pulse	X	X	X
T - Bar Ringing	X	X	X

* The desired parameters are selected by the Customer from the list of available parameters. (M)

Certain regulations appearing on this page formerly appeared on pages 287 and 288 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued) |

(E) Video Service (Continued) |

(2) Technical Specifications Packages (Continued) (T)

<u>Parameter</u>	<u>Package TV-</u>			(M)	
	<u>C*</u>	<u>1</u>	<u>2</u>		
Transient Sync Signal Non-Linearity		X			
Video/Audio Delay Difference		X			
Signal/15 kHz Flat					
Weighted Noise		X	X	X	
Signal/Low Frequency Noise	X				
Stereo Gain Difference		X	X		
Stereo Phase Difference		X	X		
Total Harmonic Distortion		X	X	X	(M)

(M)
(D)
(D)
(D)
(D)

The technical specifications are delineated in Technical Reference PUB 62504 and associated with Addendum. (M)
(M)

* The desired parameters are selected by the Customer from the list available parameters. (M)

Certain regulations appearing on this page formerly appeared on page 288 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued)

(E) Video Service (Continued)

(3) Channel Interfaces (T)

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

CI	Audio		
	Bandwidth	Provision	
2TV6-1	15kHz	1 Channel, diplexed	
2TV6-2	15kHz	2 Channels, diplexed	
2TV7-1	15kHz	1 Channel, diplexed	
2TV7-2	15kHz	2 Channels, diplexed	
4TV6-5	5kHz	1 Channel, separate	
4TV6-15	15kHz	1 Channel, separate	
4TV7-5	5kHz	1 Channel, separate	
4TV7-15	15kHz	1 Channel, separate	
6TV6-5	5kHz	2 Channels, separate	
6TV6-15	15kHz	2 Channels, separate	
6TV7-5	5kHz	2 Channels, separate	
6TV7-15	15kHz	2 Channels, separate	(M)

Compatible channel interfaces are set forth in 15.2.2(E) following. (T)

(M)

Certain regulations appearing on this page formerly appeared on pages 288 and 289 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(N)
15.2	<u>Special Access Service</u> (Continued)	(T)
15.2.1	<u>Service Descriptions</u> (Continued)	
(F)	<u>Digital Data Service</u>	
(1)	<u>Basic Channel Description</u>	(T)
	A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, or 56 kbps. The actual bit rate is a function of the channel interface selected by the Customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the Customer in the received bit stream. Digital Data channels are only available via Telephone Company designated hubs and are provided between Customer designated premises or between a Customer designated premises and a Telephone Company hub.	(M)
		(M)

Certain regulations appearing on this page formerly appeared on page 294 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
- 15.2 Special Access Service (Continued) (T)
 - 15.2.1 Service Descriptions (Continued)
 - (F) Digital Data Service (Continued)
 - (1) Basic Channel Description (Continued) (T)

The Customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the Customer premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1. (M)
 - (2) Technical Specifications Packages (T)

<u>Parameter</u>	<u>Package DA-</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-Free Seconds	X	X	X	X

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

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

Certain regulations appearing on this page formerly appeared on page 294 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued) |

(F) Digital Data Service (Continued) |

(3) Channel Interfaces (T)

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

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

Compatible channel interfaces are set forth in 15.2.2(E) following. (T)

(4) Optional Features and Functions (M)

(a) Transfer Arrangement (T)

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

Certain regulations appearing on this page formerly appeared on page 295 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued) |

(F) Digital Data Service (Continued) |

(4) Optional Features and Functions (Continued) (T)

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

	Available with Technical <u>Specifications Package DA-</u>				
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	
Central Office Bridging Capability	X	X	X	X	
Transfer Arrangement	X	X	X	X	(M)

Certain regulations appearing on this page formerly appeared on page 295.1 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

- 15. Technical Specifications (Continued) (N)
 - 15.2 Special Access Service (Continued) (T)
 - 15.2.1 Service Descriptions (Continued)
 - (G) High Capacity Service
 - (1) Basic Channel Description (T)

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps* or 1.544, 3.152, 6.312, or 274.176 Mbps isochronous serial data. The actual bit rate is a function of the channel interface selected by the Customer. High Capacity channels are provided between Customer designated premises or between a Customer designated premises and a Telephone Company hub. (M)

The Customer may provide the Network Channel Termination Equipment associated with the High Capacity channel at the Customer's premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.
- * Available only as a channel of a 1.544 Mbps facility to a Telephone Company Digital Data hub or as a cross connect of two 2.4, 4.8, 9.6, or 56.0 or 64.0 kbps channels of two 1.544 Mbps facilities to a Digital Data hub(s). The Customer must provide system and channel assignment data. (M)

Certain regulations appearing on this page formerly appeared on page 296 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued) |

(G) High Capacity Service (Continued) |

(2) Technical Specifications Packages (T)

Parameters	Package HC-			
	0	1	2	3 4
Error-Free Seconds		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. (M)

(3) Channel Interfaces (T)

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

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

Compatible channel interfaces are set forth in 15.2.2(E) following. (T)
(M)

** A 64.0 kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Telephone Company hub. (M)
(M)

Certain regulations appearing on this page formerly appeared on pages 296 and 297 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.2 Special Access Service (Continued)

15.2.1 Service Descriptions (Continued)

(G) High Capacity Service (Continued)

(4) Optional Features and Functions

(a) Automatic Loop Transfer

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

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.2 Special Access Service (Continued)

15.2.1 Service Descriptions (Continued)

(G) High Capacity Service (Continued)

(4) Optional Features and Functions (Continued)

(b) Transfer Arrangement

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

(T)

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(N)
15.2	<u>Special Access Service</u> (Continued)	(T)
15.2.1	<u>Special Descriptions</u> (Continued)	
	(G) <u>High Capacity Service</u> (Continued)	
	(4) <u>Optional Features and Functions</u> (Continued)	
	(c) <u>Central Office Multiplexing</u>	
	(1) <u>DS4 to DS1</u>	(T)
	An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.	(M) (M)
	(2) <u>DS3 to DS1</u>	(T)
	An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.	(M) (M)
	(3) <u>DS2 to DS1</u>	(T)
	An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.	(M) (M)

Certain regulations appearing on this page formerly appeared on page 298 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15.	<u>Technical Specifications</u> (Continued)	(N)
15.2	<u>Special Access Service</u> (Continued)	(T)
15.2.1	<u>Service Descriptions</u> (Continued)	
	(G) <u>High Capacity Service</u> (Continued)	
	(4) <u>Optional Features and Functions</u> (Continued)	
	(c) <u>Central Office Multiplexing</u> (Continued)	
	(4) <u>DS1C to DS1</u>	(T)
	An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.	(M) (M)
	(5) <u>DS1 to Voice</u>	(T)
	An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel at this DS1 to the Hub can also be used for a Digital Data Service.	(M) (M)
	(6) <u>DS1 to DS0</u>	(T)
	An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.	(M) (M)

Certain regulations appearing on this page formerly appeared on page 298 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.1 Service Descriptions (Continued)

(G) High Capacity Service (Continued)

(4) Optional Features and Functions (Continued)

(c) Central Office Multiplexing (Continued)

(7) DS0 to Subrate (T)

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps, or five 9.6 kbps channels using digital time division multiplexing. (M)

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

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

* Available only on a channel of a 1.544 Mbps facility to a Telephone Company hub. (M)

Certain regulations appearing on this page formerly appeared on page 299 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (T)

This section explains the Channel Interface codes and Network Channel codes that the Customer must specify when ordering Special Access Service. (M)

Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

Example: If the Customer specifies a NT Network Channel Code and a 2DC8-3 Channel Interface at the Customer's premises, the following is being requested:

NT = Metallic Channel with a Predefined Technical Specification Package (1)

2 = Number of physical wires at Customer premises

DC = Facility interface for direct current or voltage

8 = Variable impedance level

3 = Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

(A) Glossary of Channel Interface Codes and Options (M)

<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

(M)

(M)

Certain regulations appearing on this page formerly appeared on page 300 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued) |

(A) Glossary of Channel Interface Codes and Options (Continued) (T)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	(M)
AH	-	analog high capacity interface	
	- B	60 kHz to 108 kHz (12 channels)	
	- C	312 kHz to 552 kHz (60 channels)	
	- D	564 kHz to 3084 kHz (600 channels)	
CT	-	Centrex Tie Trunk Termination	
DA	-	data stream in VF frequency band at Customer's end user's point of termination	
DB	-	data stream in VF frequency band at Customer's point of termination	
	- 10	VF for TG1 and TG2	
	- 43	VF for 43 Telegraph Carrier type signals, TG1 and TG2	(M)

Certain regulations appearing on this page formerly appeared on page 300 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued) |

(A) Glossary of Channel Interface Codes and Options (Continued) (T)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	(M)
	- 15K	1.544 Mbps format per PUB 41451 plus extended framing format	
	- 15L	1.544 Mbps (DS1) with SF signaling	
	- 27	274.176 Mbps (DS4)	
	- 27	274.176 Mbps (DS4) with SF signaling	
	- 31	3.152 Mbps (DS1C)	
	- 31L	3.152 Mbps (DS1C) with SF signaling	
	- 44	44.736 Mbps (DS3)	
	- 44L	44.736 Mbps (DS3) with SF signaling	
	- 63	6.312 Mbps (DS2)	
	- 63L	6.312 Mbps (DS2) with SF signaling	
DU	-	digital access interface	
	- 24	2.4 kbps	
	- 48	4.8 dbps	
	- 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	
	- C	1.544 Mbps format per PUB 41451 plus extended framing format	
DX	-	duplex signaling interface at Customer's point of termination	
DY	-	duplex signaling interface at Customer's end user's point of termination	
EA	- E	Type I E&M Lead Signaling. Customer at POT or Customer's end user at POT originates on E Lead.	
EA	- M	Type I E&M Lead Signaling. Customer at POT or Customer's end user at POT originates on M Lead.	

Certain regulations appearing on this page formerly appeared on pages 301 and 302 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued) (T)

(A) Glossary of Channel Interface Codes and Options (Continued) (T)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	(M)
EB	- E	Type II E&M Lead Signaling. Customer at POT or Customer's end user at POT originates on E Lead.	(M)
EB	- M	Type II E&M Lead Signaling. Customer at POT or Customer's end user at POT originates on M Lead.	(M)
EC	-	Type III E&M signaling at Customer POT	(M)
EX	-	A tandem channel unit signaling for loop start or ground start and Customer supplies open end (dial tone, etc.) functions.	(M)
EX	-	B tandem channel unit signaling for loop start or ground start and Customer supplies closed end (dial pulsing, etc.) functions.	(M)
GO	-	ground start loop signaling - open end function by Customer or Customer's end user	(M)
GS	-	ground start loop signaling - closed end function by Customer or Customer's end user	(M)
IA	-	E.I.A. (25 pin RS-232)	(M)
LA	-	end user loop start loop signaling - Type A OPS registered port open end	(M)
LB	-	end user loop start loop signaling - Type B OPS registered port open end	(M)

Certain regulations appearing on this page formerly appeared on page 302 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued) (T)

(A) Glossary of Channel Interface Codes and Options (Continued) (T)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	(M)
LC	-	end user loop start loop signaling - Type C OPS registered port open end	
LO	-	loop start signaling - open end function by Customer or Customer's end user	
LR	-	20 Hz automatic ringdown interface at Customer with Telephone Company provided PLAR	
LS	-	loop start loop signaling - closed end function by Customer or Customer's end user	
NO	-	no signaling interface, transmission only	
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*	

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

Certain regulations appearing on this page formerly appeared on pages 302 and 303 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued) (T)

(A) Glossary of Channel Interface Codes and Options (Continued) (T)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	(M)
RV	- 0	reverse battery signaling, one way operation, originate by Customer	
	- T	reverse battery signaling, one way operation, terminate function by Customer or Customer's end user	
SF	-	single frequency signaling with VF band at either Customer POT or Customer's end user POT	
TF	-	telephotograph interface	
TT	-	telegraph/teletypewriter interface at either Customer POT or Customer's end user POT	
	- 2	20.0 milliamperes	
	- 3	3.0 milliamperes	
	- 6	62.5 milliamperes	
TV	-	television interface	
	- 1	combined (diplexed) video and one audio signal	
	- 2	combined (diplexed) video and two audio signals	
	- 5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire	
	- 15	video plus one (or two) audio 15 kHz signal(s)	

(M)

(D)

Certain regulations appearing on this page formerly appeared on page 303 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1. (D)

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued) |

(B) Impedance (T)

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

<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	(M)

+ 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. (M)

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ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(C) Digital Hierarchy Channel Interface Codes (4DS)

This interface is available to Customers that select the multiplexed four-wire DSX-1 or higher facility interface option at the Customer designated premises and provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS9, 4DS0 or 4DS6 plus the speed options indicated below: (T)
(M)

<u>Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS8-15	1.544	DS1
4DS9-31	3.152	DS1C
4DS0-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

(M)

Certain regulations appearing on this page formerly appeared on page 305 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)15.2 Special Access Service (Continued)15.2.2 Channel Interface and Network Channel Codes (Continued)(D) Service Designator/Network Channel Code Conversion Table

The purpose of this table is to show the relationship between the service designator codes (e.g., VGC, MT2, etc.) and the network channel codes that are used for various administrative purposes.

<u>Service Designator Code</u>	<u>Network Channel Code</u>	
MTC	MQ	
MT1	NT	
MT2	NU	
MT3	NV	
TGC	NQ	
TG1	NW	
TG2	NY	
VGC	LQ	
VG1	LB	
VG2	LC	
VG3	LD	
VG4	LE	
VG5	LF	
VG6	LG	
VG7	LH	
VG8	LJ	
VG9	LK	
VG10	LN	
VG11	LP	
VG12	LR	
WAL (Standard & Improved)	SE	(N) (x)
APC	PQ	
AP1	PE	

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ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued) (T)

(D) Service Designator/Network Channel Code Conversion Table (T)
(Continued) (M)

<u>Service Designator</u> <u>Code</u>	<u>Network Channel</u> <u>Code</u>	
AP2	PF	
AP3	PJ	
AP4	PK	
TVC	TQ	
TV1	TV	
TV2	TW	
WA1	WJ	
WA1T	WQ	
WA2	WL	
WA2A	WR	
WA3	WN	
WA4	WP	
WD1	WB	
WD2	WE	
WD3	WF	
DA1	XA	
DA2	XB	
DA3	XG	
DA4	XH	
HCO	HS	
HC1	HC	
HC1C	HD	
HC2	HE	
HC3	HF	
HC4	HG	(M)

Codes appearing on this page formerly appeared on page 306 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued) (T)

(E) Compatible Channel Interfaces (T)

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

(1) Metallic (T)

Compatible CIs Compatible CIs (M)

2DC8-1	2DC8-2	4AH6-C	2DC8-2		
2DC8-3	2DC8-3	4AH6-D	2DC8-1		
4AH5-B	2DC8-1		2DC8-2		
	2DC8-2	4DS9-*	2DC8-1		
4AH6-C	2DC8-1		2DC8-2		(M)

(2) Telegraph Grade (T)

Compatible CIs Compatible CIs Compatible CIs (M)

2DB2-10	10IA8	4AH5-B	10IA8	4DB2-10	10IA8
	2TT2-2		2TT2-2		2TT2-2
	4TT2-2		2TT2-6		4TT2-2
2DB2-43+	10IA8		4TT2-2	4DB2-43+	10IA8
	2TT2-2		4TT2-6		2TT2-6
	2TT2-6	4AH6-C	10IA8		4TT2-2
	4TT2-2		2TT2-2	4DS9-*	10IA8
2TT2-2	2TT2-2		2TT2-6		2TT2-2
2TT2-3	2TT2-2		4TT2-2		2TT2-6
	4TT2-2		4TT2-6		4TT2-2
2TT2-2	2TT2-6	4AH6-D	10IA8		4TT2-6
	4TT2-6		2TT2-2	4TT2-2	4TT2-2
			2TT2-6	4TT2-6	2TT2-6
			4TT2-2		
			4TT2-6		

* See 15.2.2(C) preceding for explanation. (T)

+ Supplemental Channel Assignment information required. (M)

Codes appearing on this page formerly appeared on page 307 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(3) Voice Grade (T)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		(M)
4AB2	4AB2					
4AB2	4AC2	4AH6-C	6DA2	4AH6-D	6DY3	
4AB3	4AC2	4AH6-C	4DA2	4AH6-D	4DY2	
4AB2	2AC2	4AH6-C	2DA2	4AH6-D	2DY2	
4AB3	2AC2	4AH5-B	6DA2	4AH6-C	9DY2	
2AB2	2AC2	4AH5-B	4DA2	4AH6-C	9DY3	
2AB3	2AC2	4AH5-B	2DA2	4AH6-C	6DY2	
				4AH6-C	6DY3	
		4AH6-D	4DE2	4AH6-C	4DY2	
4AB2	4SF2	4AH6-C	4DE2			
4AB3	4SF2	4AH5-B	4DE2	4AH6-C	2DY2	
		4AH6-D	2DE2	4AH5-B	9DY2	
4AH6-D	4AC2	4AH6-C	2DE2	4AH5-B	9DY3	
4AH6-D	2AC2	4AH5-B	2DE2	4AH5-B	6DY2	
4AH6-C	4AC2			4AH5-B	6DY3	
4AH6-C	2AC2	4AH6-D	4DX3	4AH5-B	4DY2	
4AH5-B	4AC2	4AH6-C	4DX3	4AH5-B	2DY2	
4AH5-B	2AC2	4AH5-B	4DX3			
		4AH6-D	4DX2	4AH6-D	9EA2	
4AH6-D	2CT3	4AH6-C	4DX2	4AH6-D	9EA3	
4AH6-C	2CT3	4AH5-B	4DX2	4AH6-D	6EA2-E	
4AH5-B	2CT3			4AH6-D	6EA2-M	
		4AH6-D	9DY2	4AH6-D	4EA2-E	
4AH6-D	6DA2	4AH6-D	9DY3	4AH6-D	4EA2-M	
4AH6-D	4DA2	4AH6-D	6DY2	4AH6-C	9EA2	
4AH6-D	2DA2			4AH6-C	9EA3	
				4AH6-C	6EA2-E	(M)

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ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(3) Voice Grade (Continued) (T)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		(M)
4AH6-C	6EA2-M	4AH5-B	2GO2	4AH6-D	2LO3	
4AH6-C	4EA2-E	4AH5-B	2GO3	4AH6-D	2LO2	
4AH6-C	4EA2-M	4AH6-D	6GS2	4AH6-C	2LO3	
4AH5-B	9EA2	4AH6-D	4GS2	4AH6-C	2LO2	
4AH5-B	9EA3	4AH6-D	2GS3	4AH5-B	2LO3	
4AH5-B	6EA2-E	4AH6-D	2GS2	4AH5-B	2LO2	
4AH5-B	6EA2-M	4AH6-C	6GS2			
4AH5-B	4EA2-E	4AH6-C	4GS2	4AH6-D	4LR2	
4AH5-B	4EA2-M	4AH6-C	2GS3	4AH6-D	2LR2	
		4AH6-C	2GS2	4AH6-C	4LR2	
4AH6-D	8EB2-E	4AH5-B	6GS2	4AH6-C	2LR2	
4AH6-D	8EB2-M	4AH5-B	4GS2	4AH5-B	4LR2	
4AH6-D	6EB2-E	4AH5-B	2GS3	4AH5-B	2LR2	
4AH6-D	6EB2-M	4AH5-B	2GS2			
4AH6-C	8EB2-E			4AH6-D	6LS2	
4AH6-C	8EB2-M	4AH6-D	2LA2	4AH6-D	4LS2	
4AH6-C	6EB2-E	4AH6-C	2LA2	4AH6-D	2LS2	
4AH6-C	6EB2-M	4AH5-B	2LA2	4AH6-D	2LS3	
4AH5-B	8EB2-E			4AH6-C	6LS2	
4AH5-B	8EB2-M	4AH6-D	2LB2	4AH6-C	4LS2	
4AH5-B	6EB2-E	4AH6-C	2LB2	4AH6-C	2LS2	
4AH5-B	6EB2-M	4AH5-B	2LB2	4AH6-C	2LS3	
				4AH5-B	6LS2	
4AH6-D	2GO2	4AH6-D	2LC2	4AH5-B	4LS2	
4AH6-D	2GO3	4AH6-C	2LC2	4AH5-B	2LS2	
4AH6-C	2GO2	4AH5-B	2LC2	4AH5-B	2LS3	
4AH6-C	2GO3					(M)

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ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(3) Voice Grade (Continued) (T)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		(M)
4AH6-D	4NO2	4AH6-D	4TF2	2CT3	8EB2-E	
4AH6-D	2NO2	4AH6-D	2TF2	2CT3	8EB2-M	
4AH6-C	4NO2	4AH6-C	4TF2			
4AH6-C	2NO2	4AH6-C	2TF2	2CT3	6EB2-E	
4AH5-B	4NO2	4AH5-B	4TF2	2CT3	6EB2-M	
4AH5-B	2NO2	4AH5-B	2TF2			
				2CT3	6EB3-E	
4AH6-D	4PR2	2CT3	4DS9-*			
4AH6-D	2PR2			2CT3	8EC2	
4AH6-C	4PR2	2CT3	6DX2			
4AH6-C	2PR2	2CT3	4DX2	2CT3	4SF2	
4AH5-B	4PR2	2CT3	4DX3	2CT3	4SF3	
4AH5-B	2PR2					
		2CT3	9DY3	6DA2	6DA2	
4AH6-D	4RV2-T	2CT3	6DY3	6DA2	4DA2	
4AH6-D	2RV2-T	2CT3	9DY2	4DA2	4DA2	
4AH6-C	4RV2-T	2CT3	6DY2			
4AH6-C	2RV2-T	2CT3	4DY2	4DB2	6DA2	
4AH5-B	4RV2-T	2CT3	2DY2	4DB2	4DA2	
4AH5-B	2RV2-T			4DB2	2DA2	
		2CT3	9EA3	2DB3	2DA2	
4AH6-D	4SF2	2CT3	9EA2	2DB2	2DA2	
4AH6-C	4SF2	2CT3	6EA2-E			
4AH5-B	4SF2	2CT3	6EA2-M	4DB2	4DB2	
4AH6-D	4SF3	2CT3	4EA2-E			
4AH6-C	4SF3	2CT3	4EA2-M	4DB2	4NO2	
4AH5-B	4SF3			4DB2	2NO2	
				4DB2	4PR2	
				4DB2	2PR2	
				4DB2	2PR2	(M)

* See 15.2.2(C) preceding for explanation. (T)

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ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(3) Voice Grade (Continued) (T)

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

* See 15.2.2(C) preceding for explanation. (T)

Codes appearing on this page formerly appeared on page 310.1 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(3) Voice Grade (Continued) (T)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		(M)
4DS8-*	8EB2-E	4DS8-*	4NO2	4DX3	9DY2	-----
4DS8-*	8EB2-M	4DS8-*	2NO2	4DX2	6DY3	
4DS8-*	6EB2-E			4DX3	6DY3	
4DS8-*	6EB2-M	4DS8-*	4PR2	4DX2	6DY2	
		4DS8-*	2PR2	4DX3	6DY2	
4DS8-*	2GO2			4DX2	4DY2	
4DS8-*	2GO3	4DS8-*	4RV2-T	4DX3	4DY2	
		4DS8-*	2RV2-T	4DX2	2DY2	
4DS8-*	6GS2			4DX3	2DY2	
4DS8-*	4GS2	4DS8-*	4SF2			
4DS8-*	2GS2	4DS8-*	4SF3	6DX2	9EA3	
4DS8-*	2GS3			6DX2	9EA2	
		4DS8-*	4TF2	6DX2	6EA2-E	
4DS8-*	2LA2	4DS8-*	2TF2	6DX2	6EA2-M	
				6DX2	4EA2-E	
4DS8-*	2LB2	4DX2	4DX2	6DX2	4EA2-M	
		4DX3	4DX2	4DX2	9EA2	
4DS8-*	2LC2	4DX3	4DX3	4DX3	9EA2	
				4DX2	9EA3	
4DS8-*	2LO2	6DX2	9DY3	4DX3	9EA3	
4DS8-*	2LO3	6DX2	9DY2	4DX2	6EA2-E	
		6DX2	6DY3	4DX3	6EA2-E	
4DS8-*	4LR2	6DX2	6DY2	4DX2	6EA2-M	
4DS8-*	2LR2	6DX2	4DY2	4DX3	6EA2-M	
		6DX2	2DY2	4DX2	4EA2-E	
4DS8-*	6LS2	4DX2	9DY3	4DX3	4EA2-E	
4DS8-*	4LS2	4DX3	9DY3	4DX2	4EA2-M	
4DS8-*	2LS2	4DX2	9DY2	4DX3	4EA2-M	
4DS8-*	2LS3					

* See 15.2.2(C) preceding for explanation. (T)

Codes appearing on this page formerly appeared on page 311 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.2 Special Access Service (Continued)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(3) Voice Grade (Continued)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>			
6DX2	8EB2-E	4DX2	6LS2	9DY26DY3			
6DX2	8EB2-M	4DX3	6LS2	9DY34DY2			
6DX2	6EB2-E	4DX3	4LS2	9DY24DY2			
6DX2	6EB2-M	4DX2	4LS2	9DY22DY2			
4DX2	8EB2-E	4DX3	2LS3	9DY32DY2			
4DX2	8EB2-M	4DX2	2LS3	6DY36DY3			
4DX3	8EB2-E	4DX3	2LS2	6DY36DY2			
4DX3	8EB2-M	4DX2	2LS2	6DY26DY2			D
4DX2	6EB2-E	2DX3	2LS2	6DY34DY2			X2
4DX2	6EB2-M	2DX3	2LS3	6DY32DY2			
4DX3	6EB2-E			6DY24DY2			
4DX3	6EB2-M	4DX3	4RV2-T	6DY22DY2			D
		4DX2	4RV2-T	4DY2	2DY2		X3
4DX2	2LA2	4DX3	2RV2-T	4DY24DY2			
4DX3	2LA2	4DX2	2RV2-T				2LC
2DX3	2LA2			6EA2-E4AC2			
		6DX2	4SF2	6EA2-M 4AC2			
4DX2	2LB2	4DX2	4SF2	6EA2-E2AC2			
4DX3	2LB2	4DX3	4SF2	6EA2-M2AC2			
2DX3	2LB2	4DX2	4SF3				
2DX3	2LC29DY39DY29EA26DY2						(N)
		9DY2	9DY2	9EA2	4DY2		
4DX2	2LO3	9DY3	6DY3	9EA22DY2			(T)
4DX3	2LO3	9DY3	6DY2	9EA39DY3			
2DX3	2LO3	9DY2	6DY2				
							(T)

Codes appearing on this page formerly appeared on page 312 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1. (M)

ACCESS SERVICES TARIFF

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(M)

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801 N. 31st Street
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ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(3) Voice Grade (Continued) (T)

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

Codes appearing on this page formerly appeared on page 313 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(3) Voice Grade (Continued) (T)

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

Codes appearing on this page formerly appeared on page 314 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(3) Voice Grade (Continued) (T)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		(M)
8EB2-M	6EB2-E	8EB2-E	4RV2-T	8EC2	8EB2-M	
8EB2-M	6EB2-M	8EB2-M	4RV2-T	8EC2	6EB2-E	
6EB2-E	6EB2-E	8EB2-E	2RV2-T	8EC2	6EB2-M	
6EB2-E	6EB2-M	8EB2-M	2RV2-T			
6EB3-E	8EB2-E			8EC2	4SF2	
6EB3-E	8EB2-M	8EB2-E	4SF2			
6EB2-M	6EB2-M	8EB2-M	4SF2	6EX2-B	2GO3	
		8EB2-E	4SF3			
8EB2-E	2LA2	8EB2-M	4SF3	6EX2-A	6GS2	
8EB2-M	2LA2	6EB3-E	4SF2	6EX2-A	4GS2	
		6EB2-E	4SF2	6EX2-A	2GS2	
8EB2-E	2LB2	6EB2-M	4SF2	6EX2-A	2GS3	
8EB2-M	2LB2					
		8EC2	9DY2	6EX2-B	2LA2	
8EB2-E	2LC2	8EC2	9DY3			
8EB2-M	2LC2	8EC2	6DY2	6EX2-B	2LB2	
		8EC2	6DY3			
8EB2-E	2LO3	8EC2	4DY2	6EX2-B	2LC2	
8EB2-M	2LO3	8EC2	2DY2			
				6EX2-B	2LO2	
8EB2-E	6LS2	8EC2	9EA2	6EX2-B	2LO3	
8EB2-M	6LS2	8EC2	9EA3			
8EB2-E	4LS2	8EC2	6EA2-E	6EX2-B	4LR2	
8EB2-M	4LS2	8EC2	6EA2-M	6EX2-B	2LR2	
8EB2-E	2LS2	8EC2	4EA2-E			
8EB2-M	2LS2	8EC2	4EA2-M	6EX2-A	6LS2	
8EB2-E	2LS3			6EX2-A	4LS2	
8EB2-M	2LS3	8EC2	8EB2-E	6EX2-A	2LS2	
				6EX2-A	2LS3	(M)

Codes appearing on this page formerly appeared on page 315 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

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(M)

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Lera D. O'Brian, Vice President
801 N. 31st Street
Monroe, Louisiana 71201

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)15.2 Special Access Service (Continued)15.2.2 Channel Interface and Network Channel Codes (Continued)(E) Compatible Channel Interfaces (Continued)(3) Voice Grade (Continued)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6LS2	4SF2	4SF2	9DY3	4SF3	2LA2
4LS3	4SF2	4SF3	6DY3		
		4SF2	6DY2	4SF2	2LB2
4NO2	6DA2	4SF2	6DY3	4SF32LB2	
4NO2	4DA2	4SF3	6DY2		
4NO2	2DA2	4SF2	4DY2	4SF22LC2	
2NO2	2DA2	4SF3	4DY2	4SF32LC2	
		4SF3	2DY2		
4NO2	4DE2	4SF2	2DY2	4SF22LO3	
4NO2	2DE2			4SF32LO3	
		4SF3	9EA2		
4NO2	4NO2	4SF3	9EA3	4SF22LR2	
4NO2	2NO2	4SF3	4EA2-E	4SF34LR2	
2NO2	2NO2	4SF3	4EA2-M	4SF32LR2	
2NO3	2NO2				
		4SF3	6EB2-E	4SF3	6LS2
2NO3	2PR2	4SF3	6EB2-M	4SF24LS2	
				4SF3	4LS2
4RV2-O	4RV2-T	4SF3	2GO3	4SF2	2LS2
4RV2-O	2RV2-T			4SF2	2LS3
4RV2-O	2RV2-T	4SF3	6GS2	4SF3	2LS2
		4SF2	6GS2	4SF3	2LS3
4RV2-O	4SF2	4SF2	6GS2		
		4SF3	4GS2	4SF3	4RV2-T
4SF2	4AC2	4SF2	2GS2	4SF2	4RV2-T
4SF2	2AC2	4SF2	2GS3	4SF2	2RV2-T
		4SF3	2GS2	4SF3	2RV2-T
4SF3	9DY3	4SF3	2GS3		
4SF2	9DY2			4SF3	4SF3
4SF3	9DY24SF22LA2				

Codes appearing on this page formerly appeared on page 317 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

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ACCESS SERVICES TARIFF

(T)

(T)

(M)

(M)

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued)

15.2 Special Access Service (Continued)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(3) Voice Grade (Continued)

Compatible CIs

4SF3	4SF2
4SF2	4SF2

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

Compatible CIs

2GS	2GS
	2LS
	4GS
	4LS

Compatible CIs

4GS	2GS
	2LS
	4GS
	4LS
4LS	2GS
	2LS
	4GS
	4LS

(N)	(x)
(N)	(x)

(x) Issued under authority of special permission number 86-357 of the Federal Communications Commission.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(4) Program Audio (T)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		(M)
2PG2-1	2PG2-1	4AH6-C	2PG1-3	4DS8-15E	2PG1-3	
	2PG2-1		2PG1-5		2PG2-3	
2PG2-3	2PG1-3		2PG1-8	4DS8-15F	2PG1-5	
	2PG2-3		2PG2-3		2PG2-5	
2PG2-5	2PG1-5		2PG2-5	4DS8-15G	2PG1-8	
	2PG2-5		2PG2-8		2PG2-8	
2PG2-8	2PG1-8	4AH6-D	2PG1-3	4DS8-15H	2PG1-1	
	2PG2-8		2PG1-5		2PG2-1	
4AH5-B	2PG1-3		2PG1-8			
	2PG1-5		2PG2-3			
	2PG1-8		2PG2-5			
	2PG2-3		2PG2-8			
	2PG2-5					
	2PG2-8					

Codes appearing on this page formerly appeared on page 319 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

15. Technical Specifications (Continued) (N)

15.2 Special Access Service (Continued) (T)

15.2.2 Channel Interface and Network Channel Codes (Continued)

(E) Compatible Channel Interfaces (Continued)

(5) Video (T)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		(M)
2TV6-1	4TV6-15	4TV7-5	4TV6-5	
	4TV7-15		4TV7-5	
2TV6-2	6TV6-15	4TV7-15	4TV6-15	
	6TV7-15		4TV7-15	
2TV7-1	4TV6-15	6TV6-5	6TV6-5	
	4TV7-15		6TV7-5	
2TV7-2	6TV6-15	6TV6-15	6TV6-15	
	6TV7-15		6TV7-15	
4TV6-5	4TV6-5	6TV7-5	6TV6-5	
	4TV7-5		6TV7-5	
4TV6-15	4TV6-15	6TV7-15	6TV6-15	
	4TV7-15		6TV7-15	

Codes appearing on this page formerly appeared on page 320 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 1.

ACCESS SERVICES TARIFF

(D) (x)

(D) (x)

(x) Issued under authority of special permission number 88-49 of the Federal Communications Commission.(D)

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801 N. 31st Street
Monroe, Louisiana 71201

ACCESS SERVICES TARIFF

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(M) (x)

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Issuing Officer:
Lera D. O'Brian, Vice President
801 N. 31st Street
Monroe, Louisiana 71201

ACCESS SERVICES TARIFF

(D) (x)

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(D) (x)

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(D) (x)

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Issuing Officer:
Lera D. O'Brian, Vice President
803 N. 31st Street
Monroe, Louisiana 71201

ACCESS SERVICES TARIFF

(D) (x)

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| |

(D) (x)

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Issuing Officer:
Lera D. O'Brian, Vice President
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(D) (x)

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(D) (x)

(D) (x)

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Lera D. O'Brian, Vice President
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Monroe, Louisiana 71201

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(D) (x)

(D) (x)

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Lera D. O'Brian, Vice President
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Monroe, Louisiana 71201

ACCESS SERVICES TARIFF

(D) (x)

(D) (x)

(x) Issued under authority of special permission number 88-49 of the Federal Communications Commission.

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Issuing Officer:
Lera D. O'Brian, Vice President
803 N. 31st Street
Monroe, Louisiana 71201

ACCESS SERVICES TARIFF

17. Special Construction (T)

EXPLANATION OF ABBREVIATIONS (M)

- AUL - Annual Underutilization Liability (D)
- F.C.C. - Federal Communications Commission (M)
- ILP - Initial Liability Period |
- MTL - Maximum Termination Liability |
- NRC - Nonrecurring Charge |
- RMC - Recurring Monthly Charge (M)

REFERENCE TO OTHER TARIFFS (M)

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

Certain regulations appearing on this page formerly appeared on page 5 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

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Lera D. O'Brian, Vice President
801 N. 31st Street
Monroe, Louisiana 71201

ACCESS SERVICES TARIFF

17.	<u>Special Construction</u> (Continued)	(S) (y)
17.1	<u>Application of Tariff</u>	(S) (y)
	The Company is not now providing this service. General regulations are set forth in this section. Specific regulations and rates will be added to the tariff at such time as there is a Customer request for service.	(N) (x) (N) (x)
	This tariff contains regulations, rates, charges and liabilities applicable for the special construction of interstate facilities provided by the Bay Springs Telephone Company, Inc., hereinafter referred to as the Telephone Company.	(S) (y)
	When special construction of facilities is required, the provisions of this tariff apply in addition to all regulations, rates and charges set forth in the appropriate service tariff.	
17.2	<u>Regulations</u>	
17.2.1	<u>Filing of Charges</u>	
	Rates, charges and liabilities for special construction to provide facilities for use for one month or more are filed in 17.3 following as appropriate.	
	Rates, charges and liabilities for the construction of facilities for use for less than one month are filed in supplements to this section.	
17.2.2	<u>Ownership of Facilities</u>	
	The Telephone Company providing specially constructed facilities under the provisions of this tariff retains ownership of all such facilities.	(S) (y)

- (x) Issued on not less than 1 day's notice under authority of special permission number 86-142 of the Federal Communications Commission.
- (y) Reissued material effective March 1, 1986.

ACCESS SERVICES TARIFF

17. Special Construction (Continued) (T)
- 17.2. Regulations (Continued) (T)
- 17.2.3 Interval to Provide Facilities (T)
- Based on available information and the type of service ordered, the Telephone Company will establish a completion date for the specially constructed facilities. (M)
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. (M)
- 17.2.4 Special Construction Involving Both Interstate and Intrastate Facilities (T)
- 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. (M)
Charges for the portion of the construction used to provide intrastate service shall be in accordance with the appropriate intrastate tariff. (M)
- 17.2.5 Payments for Special Construction (T)
- 17.2.5.1 Payment of Charges (T)
- All bills associated with special construction charges are due in accordance with the regulations in the appropriate service tariff. (M)
- 17.2.5.2 Start/End of Billing (T)
- 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. (M)

Certain regulations appearing on this page formerly appeared on page 7 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17. Special Construction (Continued) (T)
- 17.2. Regulations (Continued) (T)
- 17.2.5 Payments for Special Construction (Continued) (T)
- 17.2.5.3 Credit Allowance for Service Interruptions (T)
- In the event of a service interruption involving a specially constructed facility, the Customer shall receive a recurring monthly charge credit in accordance with the credit allowance provisions in the appropriate service tariff associated with the affected services. (M)
- 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 17.2.6.4(A)(4) following, the credit allowance will be terminated on the seventh calendar day after the Telephone Company has provided the Customer with written notification of the need for replacement. The credit allowance will resume on the day after the Telephone Company receives written authorization for the replacement from the Customer. (M)
- 17.2.6 Liabilities and Charges for Special Construction (T)
- 17.2.6.1 General (T)
- 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. (M)

Certain regulations appearing on this page formerly appeared on page 8 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17. Special Construction (Continued) (T)
- 17.2. Regulations (Continued) (T)
- 17.2.6 Liabilities and Charges for Special Construction (Continued) (T)
- 17.2.6.2 Conditions Requiring Special Construction (T)
- 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: (M)
- The Telephone Company has no other requirement for the facilities requested. |
 - It is requested that service be furnished using a type of facility, or via a route, other than that which the 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. (M)
- 17.2.6.3 Development of Liabilities and Charges (T)
- 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. (M)
- 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. (M)

Certain regulations appearing on this page formerly appeared on pages 8 and 9 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17.	<u>Special Construction</u> (Continued)	(T)
17.2.	<u>Regulations</u> (Continued)	(T)
17.2.6	<u>Liabilities and Charges for Special Construction</u> (Continued)	(T)
17.2.6.4	<u>Types of Liabilities and Charges</u>	(T)
	Depending on the specifics associated with each individual case, one or more of the following special construction charges and/or liabilities may be applicable:	(M) (M)
	(A) <u>Nonrecurring Charge</u>	(T)
	A nonrecurring charge always applies and includes one or more of the following components:	(M)
	(1) <u>Case Preparation Charge</u>	
	A nonrecurring charge always includes a case preparation charge component to cover the administrative expenses associated with preparing a special construction case and the associated tariff filing.	
	(2) <u>Expediting Charge</u>	
	A nonrecurring charge may include an expediting charge when it is requested that special construction be completed on an expedited basis. The charge equals the difference in estimated cost between expedited and nonexpedited construction.	 (M)

Certain regulations appearing on this page formerly appeared on pages 9 and 10 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17.	<u>Special Construction</u> (Continued)	(T)
17.2.	<u>Regulations</u> (Continued)	(T)
17.2.6	<u>Liabilities and Charges for Special Construction</u> (Continued)	(T)
17.2.6.4	<u>Types of Liabilities and Charges</u> (Continued)	(T)
	(A) <u>Nonrecurring Charge</u> (Continued)	(T)
	(3) <u>Optional Payment</u>	(M)
	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 nonrecoverable cost, whichever is less. This election must be made in writing before special construction starts. If this election is coupled with the actual cost option, the optional payment charge will reflect the actual cost of the specially constructed facilities.	(M)

Certain regulations appearing on this page formerly appeared on page 10 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

- 17. Special Construction (Continued) (T)
- 17.2. Regulations (Continued) (T)
- 17.2.6 Liabilities and Charges for Special Construction (Continued) (T)
- 17.2.6.4 Types of Liabilities and Charges (Continued) (T)
 - (A) Nonrecurring Charge (Continued) (T)
 - (4) Replacement Charge (M)

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

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.

Certain regulations appearing on this page formerly appeared on pages 10 and 11 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

- 17. Special Construction (Continued) (T)
- 17.2. Regulations (Continued) (T)
- 17.2.6 Liabilities and Charges for Special Construction (Continued) (T)
- 17.2.6.4 Types of Liabilities and Charges (Continued) (T)
 - (A) Nonrecurring Charges (Continued) (T)
 - (6) Special Construction of Facilities for Use for less than One Month (M)

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. (M)
 - (B) Maximum Termination Liability and Termination Charge (T)

A Maximum Termination Liability is equal to the nonrecoverable costs associated with specially constructed facilities and is the maximum amount which could be applied as a Termination Charge if all specially constructed facilities were discontinued before the Maximum Termination Liability expires. (M)

The liability period is equal to the average life of the account associated with the (M)

Certain regulations appearing on this page formerly appeared on page 11 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17. Special Construction (Continued) (T)

17.2. Regulations (Continued) (T)

17.2.6 Liabilities and Charges for Special Construction (Continued) (T)

17.2.6.4 Types of Liabilities and Charges (Continued) (M)

(B) Maximum Termination Liability and Termination Charge (T)
(Continued) (M)

specially constructed facilities. The liability period is generally expressed in terms of an effective and expiration date.

The Maximum Termination Liability is filed with the initial tariff filing in decreasing amounts at ten-year intervals over the average account life of the facilities. In the event that the average account life of the facilities is not an even multiple of ten, the last increment will reflect the appropriate number of years remaining.

Example Illustrating a 27-Year Average Account Life

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

(M)

Certain material appearing on this page formerly appeared on pages 11 and 11.1 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

- 17. Special Construction (Continued) (T)
 - 17.2. Regulations (Continued) (T)
 - 17.2.6 Liabilities and Charges for Special Construction (Continued) (T)
 - 17.2.6.4 Types of Liabilities and Charges (Continued) (T)
 - (B) Maximum Termination Liability and Termination Charge (Continued) (T)
(M)
- The Telephone Company will notify the Customer six months in advance of the expiration date of each ten-year liability period. The Customer must provide the Telephone Company with written notification at least 30 days prior to the expiration of the liability period if termination is elected. Failure to do so will result in an automatic extension of the special construction case to the next liability period at the filed Maximum Termination Liability amount.
- A Termination Charge may apply when all services using specially constructed facilities which have a tariffed Maximum Termination Liability are discontinued prior to the expiration of the liability period. The charge reflects the unamortized portion of the nonrecoverable costs at the time of termination, adjusted for net salvage and possible reuse. Administrative costs associated with the specific case of special construction and any costs for restoring a location to its original condition are also included. A Termination Charge may never exceed the filed Maximum Termination Liability.
- (M)

Certain regulations appearing on this page formerly appeared on pages 11.1 and 12 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

- 17. Special Construction (Continued) (T)
 - 17.2. Regulations (Continued) (T)
 - 17.2.6 Liabilities and Charges for Special Construction (Continued) (T)
 - 17.2.6.4 Types of Liabilities and Charges (Continued) (T)
 - (B) Maximum Termination Liability and Termination Charge (Continued) (T)
(M)
- A partial termination of specially constructed facilities will be provided, at the election of the Customer. The amount of the Termination Charge associated with such partial termination is determined by multiplying the termination charge which would result if all services using the specially constructed facilities were discontinued, at the time partial termination is elected, by the percentage of specially constructed facilities to be partially terminated. A tariff filing will be made following a partial termination to list remaining Maximum Termination Liability amounts and the number of specially constructed facilities the Customer will remain liable for.
- 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.
- (M)

Certain regulations appearing on this page formerly appeared on page 12 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17.	<u>Special Construction</u> (Continued)	(T)
17.2.	<u>Regulations</u> (Continued)	(T)
17.2.6	<u>Liabilities and Charges for Special Construction</u> (Continued)	(T)
17.2.6.4	<u>Maximum Termination Liability and Termination Charge</u> (Continued)	(T) (M)
	(C) <u>Annual Underutilization Liability and Underutilization Charge</u>	(T) (M)
	Prior to the start of special construction, the Telephone Company and the Customer will agree on (1) the quantity of facilities to be provided, and (2) the length of the planning period during which the Customer expects to place the facilities in service. The planning period is hereinafter referred to as the Initial Liability Period (ILP). The ILP is listed in the tariff with an effective and expiration date.	
	Underutilization occurs only if, at the expiration date of the ILP and annually thereafter, less than 70 percent of the specially constructed facilities are in service at filed tariff service rates.	
	An annual underutilization liability amount is filed on a per unit basis (e.g., per cable pair) for each case of special construction. This amount is equal to the annual per unit cost and includes depreciation, maintenance, administration, return, taxes and any other costs identified in the supporting documentation provided at the time the special construction case is filed.	
		(M)

Certain regulations appearing on this page formerly appeared on pages 12 and 12.1 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17.	<u>Special Construction</u> (Continued)	(T)
17.2.	<u>Regulations</u> (Continued)	(T)
17.2.6	<u>Liabilities and Charges for Special Construction</u> (Continued)	(T)
17.2.6.4	<u>Types of Liabilities and Charges</u> (Continued)	(T)
(C)	<u>Annual Underutilization Liability and Underutilization Charge</u> (Continued)	(T) (M)
	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.	
	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.	
	<u>Example</u>	
	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 in 5 years. The annual underutilization liability is filed at \$2.00 per pair. If 400 pairs	 (M)

Certain regulations appearing on this page formerly appeared on page 12.1 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17.	<u>Special Construction</u> (Continued)	(T)
17.2.	<u>Regulations</u> (Continued)	(T)
17.2.6	<u>Liabilities and Charges for Special Construction</u> (Continued)	(T)
17.2.6.4	<u>Types of Liabilities and Charges</u> (Continued)	(T)
(C)	<u>Annual Underutilization Liability and Underutilization Charge</u> (Continued)	(T) (M)
	<u>Example</u> (Continued)	
	were in service at the end of the ILP, there would be an underutilization of 20 pairs, i.e., $420 (70\% \text{ of } 600) - 400 = 20$. The total underutilization charge for the first 5 years would be \$200.00, or \$2.00 per pair x 20 pairs x 5 years.	
	If 420 pairs are in service at the end of the 6th year, there is no underutilization, i.e., $420 - 420 = 0$.	 (M)
(D)	<u>Recurring Monthly Charges</u>	(T)
(1)	<u>Charge for Route or Type other than Normal</u>	(T)
	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.	(M) (M)

Certain material appearing on this page formerly appeared on pages 12.1 and 13 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17. Special Construction (Continued) (T)
- 17.2. Regulations (Continued) (T)
- 17.2.6 Liabilities and Charges for Special Construction (Continued) (T)
- 17.2.6.4 Types of Liabilities and Charges (Continued) (T)
- (D) Recurring Monthly Charges (Continued) (T)
- (1) Charge for Route or Type other than Normal (T)
(Continued) (M)
- (a) When an Optional Payment Charge as set forth (M)
in 17.2.6.4(A)(3) preceding has been elected, the (T)
recurring monthly charge will be reduced to (M)
include specially constructed facility operating |
expenses only. (M)
- (b) If the actual cost option as set forth in 17.2.6.3 (T)
preceding has been elected, the recurring charge (M)
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. (M)
- (E) Lease Charge (T)
- This charge applies when the Telephone Company leases (M)
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. (M)

Certain material appearing on this page formerly appeared on pages 13 and 14 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

- 17. Special Construction (Continued) (T)
- 17.2. Regulations (Continued) (T)
- 17.2.6 Liabilities and Charges for Special Construction (Continued) (T)
- 17.2.6.4 Types of Liabilities and Charges (Continued) (T)
- (F) Cancellation Charge (T)
- 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. (M)

Certain regulations appearing on this page formerly appeared on page 14 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

- 17. Special Construction (Continued) (T)
- 17.2. Regulations (Continued) (T)
 - 17.2.7 Deferral of Start of Service (T)
 - 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: (M)
 - 17.2.7.1 Construction Has Not Begun (T)
 - If the Telephone Company has not incurred any installation costs before receiving a request for deferral, no charge applies. (M)
 - 17.2.7.2 Construction Has Begun (T)
 - If the construction of facilities has begun before the Telephone Company receives a request for deferral, charges will vary as follows: (M)
 - (A) All Services Are Deferred
 - When all services which will use specially constructed facilities are deferred, a charge based on the costs incurred by the Telephone Company during each month of the deferral will apply. Those costs include the recurring costs for that portion of the facilities already completed and any other costs associated with the deferral. The cost of any components of the nonrecurring charge which have been completed at the time of deferral will also apply. (M)

Certain material appearing on this page formerly appeared on page 15 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

- 17. Special Construction (Continued) (T)
- 17.2. Regulations (Continued) (T)
 - 17.2.7 Deferral of Start of Service (Continued) (T)
 - 17.2.7.2 Construction Has Begun (Continued) (T)
 - (B) Some Services Are Deferred (M)
 - 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. (M)
 - 17.2.7.3 Construction Complete (T)
 - If the construction of facilities has been completed before the Telephone Company receives a request for deferral, all special construction charges will apply. (M)
 - 17.2.8 Definitions (T)
 - Actual Cost - The term "Actual Cost" denotes all costs charged against a specific case of special construction, including any appropriate taxes. (M)
 - Annual Underutilization Liability - The term "Annual Underutilization Liability" denotes a per unit amount which may be billed annually if fewer services are in use utilizing specially constructed facilities at filed tariff rates than were originally specially constructed.
 - Estimated Cost - The term "Estimated Cost" denotes all estimated costs that will be incurred in providing a specific case of special construction, including any appropriate taxes. (M)

Certain regulations appearing on this page formerly appeared on page 16 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17. Special Construction (Continued) (T)
- 17.2. Regulations (Continued) (T)
- 17.2.8 Definitions (Continued) (T)
- 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. (M)
- Initial Liability Period - The term "Initial Liability Period" denotes the initial planning period during which the Customer expects to place specially constructed facilities in service.
- Installed Cost - The term "Installed Cost" denotes the total investment (estimated or actual) required by the Telephone Company to provide specially constructed facilities.
- Maximum Termination Liability - The term "Maximum Termination Liability" denotes the maximum amount which may be billed if all services using specially constructed facilities are terminated prior to the expiration of the Maximum Termination Liability Period.
- Maximum Termination Liability Period - The term "Maximum Termination Liability Period" denotes the length of time for which a termination charge may apply if all services using specially constructed facilities are terminated.
- Net Salvage - The term "Net Salvage" denotes the estimated scrap, sale, or trade-in value, less the estimated cost of removal. 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. (M)

Certain regulations appearing on this page formerly appeared on pages 16 and 17 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17. Special Construction (Continued) (T)
- 17.2. Regulations (Continued) (T)
- 17.2.8 Definitions (Continued) (T)
- 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. (M)
- Normal Construction - The term "Normal Construction" denotes all facilities the Telephone Company would normally use to provide service in the absence of a requirement for special construction.
- Normal Cost - The term "Normal Cost" denotes the estimated cost to provide services using normal construction.
- Permanent Facilities - The term "Permanent Facilities" denotes facilities providing service for one month or more.
- Recoverable Cost - The term "Recoverable Cost" denotes the cost of the specially constructed facilities for which the Telephone Company has a foreseeable reuse, either in place or elsewhere, should the service be terminated.
- Termination Charge - The term "Termination Charge" denotes the portion of the Maximum Termination Liability that is applied as a nonrecurring charge when all services are discontinued prior to the expiration of the specified liability period. (M)

Certain regulations appearing on this page formerly appeared on page 17 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

ACCESS SERVICES TARIFF

17. Special Construction (Continued) (T)

17.3. Charges to Provide Permanent Facilities

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

Case No.	Telephone Co./ Customer Name	Description	Charge/ Liability	Effective Date	Expiration Date

(T)

(left blank intentionally) (N)

Certain regulations appearing on this page formerly appeared on page 19 of EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 3.

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