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December 1, 2021

AT&T California (U 1001 C)
Advice Letter No. 48969

Public Utilities Commission of the State of California
Advice Letter Coordinator, Communications Division
505 Van Ness Avenue
San Francisco, CA 94102

Re: Grandfather Certain Private Line Services and Associated Features

Pursuant to General Order 96-B, AT&T California (U-1001-C) submits this Advice Letter to make changes to Schedule Cal. P.U.C. Nos. B. Private Line Services, B3. Analog Services and B5. Digital Services and 175-T Access Service, Section 7. Special Access.

The purpose of this filing is to grandfather Analog Voice Grade (Voice and Data) Private Line Services, Digital Data Service, Advanced Digital Network Service, Miscellaneous Experimental Services, Channel Conditioning, Signaling Options, and Switching Arrangements. Customer notice has been sent to affected customer as required by D.07-09-019. Copies of the customer notices are included.

This advice letter is submitted as a Tier I filing in accordance with General Order 96-B. AT&T California requests that this advice letter become effective the same day as the submission date, December 1, 2021. This filing will not increase any rate or charge, nor conflict with other schedules or rules.

Included in this filing are the following revised tariff sheets:

Schedule Cal. P.U.C. No. B3			
7 th	Revised	Sheet	55
4 th	"	"	82
3 rd			184
4 th			185
6 th			229
3 rd			278
Schedule Cal. P.U.C No. B5			
8 th	Revised	Sheet	25
Schedule Cal. P.U.C No. 175-T			
8 th	Revised	Sheet	238
19 th	"	"	239
4 th	"	"	239-A
6 th	"	"	248
18 th	"	"	249
1 st	"	"	249-A
14 th	"	"	251
6 th	"	"	251-A
2 nd	"	"	251-B
4 th	"	"	255
8 th	"	"	278-A
4 th	"	"	310-A
8 th	"	"	330-A
5 th	"	"	330-B

In compliance with General Order 96-B, we are serving a copy of this advice letter via email upon the parties identified on the attached CPUC Advice Letter Service List for “Changes in rates, terms and conditions of service, or installation of new service” as well as others who have requested such notification. If there are any questions regarding the distribution of this advice letter, call 415.417.5033.

Anyone may object to this advice letter, which was submitted on December 1, 2021, by sending a written protest to: Telecommunications Advice Letter Coordinator, Communications Division, 505 Van Ness Avenue, 3rd Floor, San Francisco, CA 94102-3298, or via email to: TD.PAL@cpuc.ca.gov. The protest must state specifically the grounds on which it is based. The protest must be received by the Telecommunications Advice Letter Coordinator no later than 20 days after the date that the advice letter was submitted. On or before the day that the protest is sent to the Telecommunications Advice Letter Coordinator, the protestant must send a copy of the protest to: Fassil Fenikile, 430 Bush Street, 5th Floor, San Francisco, CA 94108. If this advice letter was served via email, the protest must be served to AT&T California via email at att-regulatory-ca@att.com. To obtain information about the Commission’s procedures for advice letters and protests, go to the Commission’s Internet site (www.cpuc.ca.gov) and look for document links to General Order 96-B.

Respectfully Submitted,

A handwritten signature in black ink that reads "Fassil Fenikile". The signature is written in a cursive, flowing style.

Assistant Vice President, Regulatory Affairs
AT&T California

Attachments

PRIVATE LINE SERVICES

B3. ANALOG SERVICES

3.2 CLASSIFICATION AND RATES (Cont'd)

3.2.2 VOICE GRADE¹ (VOICE)

(C)

Effective December 1, 2021, Voice Grade (Voice) Analog Services will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted.

(N)

(N)

A. DESCRIPTION

1. Type 2001 (VG32)

- a. Private line telephone service uses channel facilities used to connect customer-provided terminal equipments or communications systems to other terminal equipments. Such facilities are furnished to enable the customer, or the customer and authorized user, to communicate orally between specified locations. Such facilities are furnished only between different premises.
- b. Private line voice service is that of providing the requisite facilities to enable the customer or the customer and authorized user to communicate orally between specified locations.
- c. The channels used for private line voice service are exclusive of those furnished under the exchange service schedules of the Utility.
- d. Analog Special Services - Voice (Type 2001) - Approximate bandwidth of 300-3000 Hertz. Furnished for voice transmission on a half-duplex basis.
- e. Extension Service¹

Extension service is that of furnishing facilities for authorized connection to an interwire center private line telephone circuit furnished to a branch or agency of the United States Government for the collection and dissemination of information relating to air traffic control activities and similar information of public interest in connection with supervision of the flight of aircraft along civil airways.

Extension service is furnished twenty-four hours per day, seven days per week, for a minimum period of one month.

Allowance for service interruptions is as provided in Schedule Cal.P.U.C. No. A2.1.14.

NOTE 1: Frozen/Grandfathered Service - See General Regulations, Schedule Cal.P.U.C. No. B2.2.4,C.

Continued

PRIVATE LINE SERVICES

B3. ANALOG SERVICES

3.2 CLASSIFICATION AND RATES (Cont'd)

3.2.3 VOICE GRADE¹ (DATA) (C)

A. DESCRIPTION

Effective December 1, 2021, Voice Grade (Data) Analog Services will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. (N)

This schedule contains the rates, charges and regulations applicable to Type 3001, 3007 and 3009 (VG36) services for remote metering, supervisory control, miscellaneous signaling and voice frequency monitoring purposes, and to series Type 3002 (VG36) services for data transmission. (N)

1. Metering, Control and Signaling Channels - Type 3001, 3007 and 3009

a. Type 3001 and 3009 for remote metering, supervisory control, miscellaneous signaling and voice frequency monitoring purposes are facilities suitable for connecting metering, supervisory control, signaling and voice monitoring equipment, provided by the customer, and are furnished between specified locations.

b. Type 3001 and 3009 are furnished for such purposes as to indicate the readings of meters at distant locations, to operate switches which in turn perform some desired operation, to operate signal devices or for voice monitoring. The purposes for which a service is to be used must be made known to the Utility.

c. Type 3007 channels are furnished specifically for alarm service monitoring and metering and are suitable for connecting metering and monitoring equipment provided by the customer. (See B.1.o. following)

d. Channel Types

(1) Type 3001 (VG36)

Approximate bandwidth of 300-3000 Hertz with transmission characteristics similar to those of private line telephone service. Furnished for remote metering, supervisory control and miscellaneous signaling purposes with overall installed loss of - 16 db (\pm 1db). Type 3001 services are suitable for the transmission of tones. They are also suitable to be equipped for direct current continuity where facilities are available.

(2) Type 3007 (VG36)

A basic, non-designed two-point voice grade circuit with transmission characteristics similar to those of private line telephone service. This channel provides for the transmission of half duplex service with an approximate bandwidth of 300-3000 Hertz. (See B.1.o. following)

NOTE 1: Frozen/Grandfathered Service - See General Regulations, Schedule Cal.P.U.C. No. B2.2.4,C. (N)

Continued

PRIVATE LINE SERVICES

B3. ANALOG SERVICES

3.2 CLASSIFICATION AND RATES (Cont'd)

3.2.11 SPECIAL ASSEMBLIES¹

(C)

Effective December 1, 2021, Special Assemblies for Voice Grade (Voice and Data) Analog Services will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted.

(N)

(N)

A. GENERAL

1. Applicability

Applicable to special assemblies of equipment to meet special requirements.

2. Regulations

When a customer is furnished special equipment for which provision is not otherwise made, an installation charge and monthly rate and where applicable, a termination charge, will be incurred based upon the total cost of the equipment furnished or of the special work required, subject to the review of such charges by the Public Utilities Commission of the State of California.

a. General

(1) Rules of the Utility applicable to services with which special assemblies of equipment are associated also apply to the special assemblies of equipment.

(2) Unless otherwise specified, the rates and regulations for special equipment furnished in this schedule, are in addition to the rates, charges and regulations, applicable to and as filed in other schedules of the tariff for equipment items with which the special assemblies are associated.

(D)

(D)

NOTE 1: Frozen/Grandfathered Service - See General Regulations, Schedule Cal.P.U.C. No. B2.2.4,C.

(N)

(N)

Material omitted now on Sheet 185.

(N)

Continued

PRIVATE LINE SERVICES

B3. ANALOG SERVICES

3.2 CLASSIFICATION AND RATES (Cont'd)

3.2.11 SPECIAL ASSEMBLIES (Cont'd)

A. GENERAL (Cont'd)

2. Regulations (Cont'd)

b. Basic Termination Charge

(L)

If at any time during the termination liability period following installation, a special assembly of equipment is disconnected as a result of a customer request or disconnection of the customer's telephone service in accordance with the Utility's applicable tariffs, the customer will be billed for the basic termination charge as specified under rates and regulations, less a credit, as indicated, of said charge for each month between the date on which said equipment was installed and the date on which it was so disconnected. For purposes of computing that basic termination charge, the last equipment installed shall be considered to be the first equipment removed.

(L)

c. Cable Allowance

Unless otherwise specified in rates and regulations of this schedule, a special assembly of equipment requiring cable has included in its rate 100 feet of cable, route measurement, from the equipment item to the Utility's demarcation point or the closest practicable point to the Utility's local loop demarcation point.

d. Equipment Located Outside Exchange Areas

Special assemblies of equipment are furnished within the exchange areas of all exchanges as said areas are defined on maps filed as part of the tariff schedules. Special assemblies of equipment may be furnished outside the defined exchange areas where facilities and operating conditions permit and may be subject to charges in addition to the special assembly provided.

e. Limitations

- (1) Special assemblies of equipment will be furnished where they are compatible with other services furnished by the Utility.
- (2) The Utility will designate the equipment to be used to provide special assemblies of equipment.
- (3) Special assemblies of equipment signified, Frozen Date, apply only to those special assemblies in service as of the date shown, and furnished the same customer on the same premises.

(L) Material formerly on Sheet 184.

(N)

Continued

PRIVATE LINE SERVICES

B3. ANALOG SERVICES

3.2 CLASSIFICATION AND RATES (Cont'd)

3.2.12 OTHER ANALOG SERVICES (Cont'd)

D. MISCELLANEOUS EXPERIMENTAL SERVICES¹ (C)

Effective December 1, 2021, Miscellaneous Experimental Services for Voice Grade (Voice and Data) Analog Services will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. (N)

1. Types and Description

a. Special assembly private line service(s) specially adapted for experimental purposes are furnished between specified locations for use by the customer as follows:

(1) In the development or trial of customer-provided equipment designed for miscellaneous transmission purposes or,

(2) In the trial and evaluation of experimental equipment provided by the Utility.

b. These service(s) are furnished to connect two or more service points to the Utility's local loop demarcation point.

2. Regulations

a. This schedule contains the rates and regulations applicable to special assembly private line service(s) for miscellaneous experimental purposes, furnished or made available by the Utility, over facilities wholly within or partly within and partly without the State of California, between stations, all of said stations being within the territory served in California.

b. Station Equipment

Station equipment and station wiring, other than the equipment and wiring necessary for the termination of the channel on the customer's premises shall be provided by the customer.

NOTE 1: Frozen/Grandfathered Service - See General Regulations, Schedule Cal.P.U.C. No. B2.2.4,C. (N)

Continued

PRIVATE LINE SERVICES

B3. ANALOG SERVICES

3.3 OTHER FEATURES AND ARRANGEMENTS¹ (C)

Effective December 1, 2021, Channel Conditioning, Signaling Options, and Switching Arrangements will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. (N)
(N)

3.3.1 CLASSIFICATION AND RATES - CHANNEL CONDITIONING

A. TYPES AND DESCRIPTION

The following specific conditions are applicable to general purpose channel conditioning arrangements for private line services.

1. Type C1

- a. Envelope delay between 1000 and 2400 Hertz shall not exceed a maximum difference of 1000 microseconds.
- b. The loss deviation with frequency (from a 1000 Hertz reference) shall not exceed -1 to +3 db from 1000 to 2400 Hertz and -2 to +6 db from 300 to 2700 Hertz². (T)

2. Type C2

- a. Envelope delay shall not exceed the maximum difference as follows:

Between 1000 and 2600 Hertz a maximum difference of 500 microseconds.
Between 600 and 2600 Hertz a maximum difference of 1500 microseconds.
Between 500 and 2800 Hertz a maximum difference of 3000 microseconds.
- b. The loss deviation with frequency (from a 1000 Hertz reference) shall not exceed -1 to +3 db from 500 to 2800 Hertz and -2 to +6 db from 300 to 3000 Hertz². (T)

3. Type C4

- a. Envelope delay shall not exceed the maximum difference as follows:

Between 1000 and 2600 Hertz a maximum difference of 300 microseconds.
Between 800 and 2800 Hertz a maximum difference of 500 microseconds.
Between 600 and 3000 Hertz a maximum difference of 1500 microseconds.
Between 500 and 3000 Hertz a maximum difference of 3000 microseconds.
- b. The loss deviation with frequency (from a 1000 Hertz reference) shall not exceed -1 to +3 db from 500 to 3000 Hertz and -2 to +6 db from 300 to 3200 Hertz². (T)

NOTE 1: Frozen/Grandfathered Service - See General Regulations, Schedule Cal.P.U.C. No. B2.2.4,C. (N)
(N)

NOTE 2: + means more loss. (T)

Continued

PRIVATE LINE SERVICES

B5. DIGITAL SERVICES

5.3 RATES AND CHARGES FOR DIGITAL DATA SERVICE¹ (C)

Effective December 1, 2021, Digital Data Services will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. (N)

A. APPLICABILITY

The rates and charges specified in this section apply for all services involving Digital City Serving Areas.

B. ANALOG TO DIGITAL ADAPTOR

The rates and charges set forth below apply for the connection of a private line analog data service at a Principal Central Office to Digital Data Service at the transmission speeds of 2.4 Kbps, 4.8 Kbps and 9.6 Kbps.

	<u>Monthly</u> <u>Rate</u>	<u>USOC</u>
- Per adaptor providing analog private line data channel connection to DDS operating at 2.4 Kbps	\$265.50	DDH
- Per adaptor providing analog private line data channel connection to DDS operating at 4.8 Kbps	327.13	DDK
- Per adaptor providing analog private line data channel connection equipped with high performance data channel conditioning Type D1 to DDS operating at 9.6 Kbps.	464.62	DDM

NOTE 1: Frozen/Grandfathered Service - See General Regulations, Schedule Cal.P.U.C. No. B2.2.4,C. (N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Customers can order a basic channel and select, from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this tariff, there is no restriction against doing so.

Following is a brief description of each type of channel:

Metallic* - a channel for the transmission of low speed varying signals at rates up to 30 baud.

Telegraph Grade** - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade*** - a channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz. (C)

Video - a channel for the transmission of standard 525 line/60 field monochrome or National Television Systems Committee color video signal and one to four associated 5 or 15 KHz audio signals. The bandwidth for a video channel is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 Mhz. Or, a digital broadband pipe of uncompressed video and audio at a rate of 270 Mbps.

* Limited Offering Service provided only to existing customers and services working as of January 1, 1995. See General Regulations 2.1.4, (C) preceding.

** Frozen/Grandfathered Service provided only to existing customers and services working as of the effective date of Advice Letter No. 18405. Additions, deletions, moves, or changes will result in complete disconnection of the service. See General Regulations 2.1.4, (F) preceding. (T)

*** Effective December 1, 2021, Voice Grade Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. See Frozen/Grandfathered Service, General Regulations 2.1.4, (F). (N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Digital Data** - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kbps. (C)

Advanced Digital Network*** - a channel for the digital transmission of synchronous serial data at the fixed speeds of 2.4, 4.8, 9.6, 19.2, 56, 64 Kbps and 1.544 Mbps. Also, variable speed bands of 1.2 to 38.4 Kbps and 1.2 to 64.0 Kbps.* (C) (T)

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps.

SONET Ring and Access Service# - a channel for the transmission of synchronous or asynchronous data at the rates of 1.5, 45, 155 and 622 Mbps or 2.4 Gbps, 100 Mbps and 1 Gbps.

GigaMANSM - a channel for the transmission of one-way digital signals at 1 Gbps.

Dedicated OC-192 SONET Ring Service - is a 9.953 Gbps transport Service. OC-192 is designed for transport of lower speed optical services, e.g., OC-3 or OC3c, OC-12 or OC-12c, OC-48 or OC-48c, and 1 Gbps.

Optical Carrier Network (OCN), Point to Point service, designed for transport of synchronous data at the rates of 155.52 Mbps, 622.08 Mbps, 2488.32 Mbps and 9953.28 Mbps.

(D)
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(D)

* Provided only to existing customers and services working as of January 1, 1995.

Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006, pending CPUC Resolution. See General Regulations, Schedule Cal.P.U.C. No. 175-T, Section 2.1.4, (F).

** Limited Offering Service as of January 1, 1995. See 2.1.4, (C) preceding for description. (N) (N) (D)

*** Effective December 1, 2021, Advanced Digital Network (fixed speeds 2.4, 4.8, 9.6, 19.2, 56, and 64 Kbps) service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. See Frozen/Grandfathered Service, General Regulations 2.1.4, (F). (N) | (N)

Material omitted now on Sheet 239-A.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Multi-service Optical Network Ring service - designed for the physical transport of multiple data signals utilizing each of these wavelengths represents a transmission channel in the MON Ring system and is protocol independent of every other channel in the system, as set forth in Schedule Cal.P.U.C. No. D12.@

(L)
|
(L)

OC-3, OC-12, OC-48 Dedicated SONET Ring Service provides dedicated bandwidth capacity over a self-healing ring for a single customer for the purpose of transporting the customer's data over a dedicated network.

The customer also has the option of ordering digital High Capacity or Fiber AdvantageSM facilities (i.e., 1,544 Mbps, 3.152 kbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to a Utility Hub for multiplexing to individual channels of a lower capacity bandwidth. Descriptions of the types of multiplexing available at the Hubs, as well as the number of individual channels which may be derived from each type of facility, are set forth in 7.2 following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are also set forth in 7.2 following.

Detailed descriptions of each of the channel types are provided in 7.2 following. (L)
(L)

@ Effective December 1, 2012, MON Ring Service is Grandfathered and limited to customers with existing service. For additional information see Schedule Cal. P.U.C. No. D12.2, Limited Offer. (L)
(L)

(L) Material formerly on Sheet 239. (N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.9 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions set forth in Section 5. preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

Certain Special Access Services may be offered to a customer through a Sales Agency Program as set forth in Schedule Cal.P.U.C. Nos. A2.1.1, Rule 1 - Definition of Terms. See also, A2.3 - Form, Network Services Marketing Agreement, Form No. UE 0028. The services available under a Sales Agency Program are:

- Advanced Digital Network (ADN)** (C)
- Digital Data Service (DDS)*
- High Capacity Service (HCS)

* Limited Offering Service as of January 1, 1995. See 2.1.4, (C) preceding for description.

** Effective December 1, 2021, Advanced Digital Network (fixed speeds 2.4, 4.8, 9.6, 19.2, 56, and 64 Kbps) service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. See Frozen/Grandfathered Service, General Regulations 2.1.4, (F). (N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions

For the purposes of ordering, these are the categories of Special Access Service:

Metallic (MT)*		
Telegraph Grade (TG)#	Video (TV)	
Voice Grade (VG)***	Digital Data (DA)*	(C)
- Universal WATS Access Line (UWAL)	Advanced Digital Network*** (ADN)	(C)
- Private Virtual Network Access Line (PVNAL)	High Capacity (HC)	
Optical Carrier Network (OCN) Point to Point Service	SONET Ring and Access Service@	
	GigaMAN® Service	
OC-3, OC-12 and OC-48 Dedicated SONET Ring Service	OC-192 Dedicated SONET Ring Service	
	Multi-service Optical Network Point to Point Service	
	Multi-service Optical Network Ring Service**	

(D)
 |
 (D)

- * Limited Offering Service provided only to existing customers and services working as of January 1, 1995. See Section 2.1.4 General Regulations preceding. Existing service arrangements will be maintained up to and including the Utility's local loop demarcation point. Work activity beyond the Utility's local loop demarcation point is the responsibility of the customer at the customer's expense.
- # Frozen/Grandfathered Service available only to customers and services working as of the effective date of Advice Letter No. 18405. Additions, deletions, moves, or changes will result in complete disconnection of the service. See General Regulations 2.1.4, (F) preceding. (T)
- @ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006, pending CPUC Resolution. See General Regulations, Schedule Cal.P.U.C. No. 175-T, Section 2.1.4, (F). (T)
- ** MON Ring Grandfathered effective December 1, 2012. See Schedule Cal.P.U.C. No. 12.2, Limited Offer.
- *** Effective December 1, 2021, Voice Grade Service and Advanced Digital Network (fixed speeds 2.4, 4.8, 9.6, 19.2, 56, and 64 Kbps) service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. See Frozen/Grandfathered Service, General Regulations 2.1.1, (F). (N)

Material omitted now on Sheet 249-A. (N)
 Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface and when desired optional features and functions are added to construct the service desired by the customer. Each of the components of the service are described in this section. Technical limitations may exist that affect the provisioning of services as shown in 7.2.1 and 7.2.2, depending on the availability of equipment and facilities. The Utility will provide reasonable notification to the customer of any limitations that materially affect the operating characteristics of the special access service. (See Section 2.1.7 for information concerning changes and substitutions.)

(L)

Customized technical specifications packages will be provided where technically feasible. If the Utility determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

(L)

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.

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 Utility Hub where bridging or multiplexing functions are performed.

(L) Material formerly on Sheet 249.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

The Utility will maintain existing transmission specifications on services installed prior to the effective date of this tariff except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this tariff. All services installed after September 6, 1988 will conform to the transmission specification standards contained in the following Technical References for each category of service:

Metallic*	PUB	TR-NPL-000336	
Telegraph Grade#	PUB	TR-NPL-000336	
Voice Grade**	PUB	TR-NWT-000335	(C)
	PUB	41004, and L-7800042-PB/NB	
- WATS Access Line Service		GR-334-CORE	
- Universal WATS Access Line Service		GR-334-CORE	
- Private Virtual Network Access Line Service	PUB	GR-334-CORE	
Program Audio	PUB	TR-NPL-000337	
Video	PUB	AM-TR-NIS-000137, L720026PB/NB	
Digital Data*	PUB	TR-NWT-000341	
	PUB	MDP-326-726	
Advanced Digital Network**	PUB	L-780036-PB	(C) (D)

* Limited Offering Services - See General Regulations 2.1.4, (C) preceding. Provided only to existing customers and services working as of January 1, 1995. Existing service arrangements will be maintained up to and including the Utility's local loop demarcation point. Work activity beyond the Utility's local loop demarcation point is the responsibility of the customer at the customer's expense.

Frozen/Grandfathered Service - See General Regulations 2.1.4, (F) preceding. (T)

@ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006, pending CPUC Resolution. See General Regulations, Schedule Cal.P.U.C. No. 175-T, Section 2.1.4, (F).

** Effective December 1, 2021, Voice Grade Service and Advanced Digital Network (N) (fixed speeds 2.4, 4.8, 9.6, 19.2, 56, and 64 Kbps) service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. See Frozen/Grandfathered Service, General Regulations 2.1.1, (F). (N)

Material omitted now on Sheet 251-A.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

The Utility will maintain existing transmission specifications on services installed prior to the effective date of this tariff except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this tariff. All services installed after September 6, 1988 will conform to the transmission specification standards contained in the following Technical References for each category of service: (Cont'd)

High Capacity	PUB	62508	(L)
		L-780059-PB/NB	
- IntraLATA Voice Grade Private Line Service	PUB	TR-NWT-000965 and L-780029-PB	
- Data Communications Using Local Area Data Channel	PUB	MDP-326-986	
- SONET Ring and Access Service [®]	PUB	L-780046PB/NB	
GigaMAN SM	PUB	AM-TR-NIS-000104	(L)
OC-n Dedicated SONET Ring Service	PUB	AM TR-NIS-000111	
	PUB	AM TR-TMO-000101	
Optical Carrier Network (OCN) Point to Point Service	PUB	AM-TR-NIS-000111	
	PUB	AM-TR-TMO-000101	

(D)

(D)

(L) Material formerly on Sheet 251.

(N)

Material omitted now on Sheet 251-B.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

The Utility will maintain existing transmission specifications on services (N)
installed prior to the effective date of this tariff except that the
existing services with performance specifications exceeding the standard
listed in this provision will be maintained at the performance levels
specified in this tariff. All services installed after September 6, 1988
will conform to the transmission specification standards contained in the
following Technical References for each category of service: (Cont'd) (N)

Multi-service Optical Ring Network Service (MON Ring)*	PUB	AM TR-NIS-000100 AM TR-NIS-000104 AM-TR-NIS-000111 AM-TR-TMO-000101 AM-TR-TMO-000080 AM-TR-NIS-000096 AM-TR-NIS-000107 IBM SA22-7202-XX IBM SA23-0394-XX ANSI X3.T9.3 ANSI/IEEE 802.3 IEEE 802.3x and z IEEE 802.3ae ANSI/SMPTE 259M	(L)
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* Effective December 1, 2012, MON Ring Service is Grandfathered and limited to
customers with existing service. For additional information see Schedule
Cal. P.U.C. No. D12.2, Limited Offer. (L)

(L) Material formerly on Sheet 251-A. (N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service**

(C)

(A) 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. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Utility Hub or between a customer designated premises or Utility Hub and an EIS POT.

(B) Technical Specifications Packages

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
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	X
Intermodulation													
Distortion	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	
Signal-to-C													
Message Noise					X								
Signal-to-C													
Notch Noise	X					X	X	X	X	X	X	X	X

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

** Effective December 1, 2021, Voice Grade Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. See Frozen/Grandfathered Service, General Regulations 2.1.4, (F). (N)
 (N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Services

(B) Advanced Digital Network#**

(C)

(1) Basic Channel Description

Advanced Digital Network service provides full duplex four-wire transmission of synchronous serial data at the fixed rate of 2.4, 4.8, 9.6, 19.2, 56.0 64.0 Kbps and 1.544* Mbps. Customer speed selectability will be provided when ordered as variable@. There are two variable speed bands; (1) 1.2 to 38.4 Kbps which include digital rates of 1.2, 2.4, 4.8, 9.6, 19.2, 32.0 and 38.4 Kbps, (2) 1.2 to 64.0 Kbps which include digital rates of 1.2, 2.4, 4.8, 9.6, 19.2, 32.0, 38.4 and 64.0 Kbps. Variable speed selection will allow the customer to change bit rate without issuing an order through the Utility. The actual bit rate is a function of Utility equipment and the channel interface selected by the customer. Synchronous timing is provided by the Utility through the Utility's facilities to the customer in the received bit stream. Advanced Digital Network services are provided between customer designated premises through Serving Wire Centers, or through a Utility Advanced Digital Network Hub or between a customer designated premises, or Utility Hub, and an EIS POT. 1.544* Mbps service is only available via Utility designated Advanced Digital Network Hubs.

Advanced Digital Network Service connected to Access Advantage Plus is only offered between customer designated presence and not a carrier point of presence.

The customer will provide the Network Channel Terminating Equipment compatible with Advanced Digital Network service at the customer premises.

Advanced Digital Network may be terminated on a channel port of Access Advantage Plus as found in Guidebook, Part 6, Section 7.

@ Provided only to existing customers and services working as of January 1, 1995. Not available with Access Advantage Plus.

* Regulations, Rates and Charges for 1.544 Mbps service are set forth in 7.2.8(C) and 7.5.8(C) following.

** Effective December 1, 2021, Advanced Digital Network (fixed speeds 2.4, 4.8, 9.6, 19.2, 56, and 64 Kbps) service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. See Frozen/Grandfathered Service, General Regulations 2.1.1, (F).

(N)
|
(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.3 Voice Grade Service***

		USOC	Monthly Rates	Nonrecurring [@] Charges		(C)
				1st	Add'l.	
(A)	Channel Termination					
	- Per Point of termination					
	*- at an End User location					
	- Two-wire	T6E2X	\$31.67	\$565.13	\$497.81	
	- Four-wire	T6E4X	40.20	565.13	497.81	
	** - at an IC POT location					
	- Two-Wire	T6P2X	23.25	565.13	497.81	
	- Four-Wire	T6P4X	31.63	565.13	497.81	
	#- Per Point of termination With DC Continuity					
	- at an End User location					
	- Two-wire	T6E2D	31.67	565.13	497.81	
	- Four-wire	T6E4D	40.20	565.13	497.81	
	- at an IC POT location					
	- Two-Wire	T6P2D	23.25	565.13	497.81	
	- Four-Wire	T6P4D	31.63	565.13	497.81	

** Access Advantage Plus can only be terminated at an end user location.

* When service terminates on an Access Advantage Plus Channel port a channel termination charge will not apply.

DC continuity is not allowed at any point of termination on Access Advantage Plus.

@ Non-recurring charges associated with the installation of Access Advantage Plus on a 3 year Term Pricing Plan are waived.

*** Effective December 1, 2021, Voice Grade Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. See Frozen/Grandfathered Service, General Regulations 2.1.4, (F). (N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.8 Digital Services (Cont'd)

(B) Advanced Digital Network**

(1) Channel Termination#

-Per point of
 Termination

Fixed Speeds

	USOC	Monthly Rates	Nonrecurring Charges [@]
2.4 Kbps	VAN0D/VAN0P/VAN0W	\$47.41	\$597.37
4.8 Kbps	VAN1D/VAN1P/VAN1W	47.41	597.37
9.6 Kbps	VAN2D/VAN2P/VAN2W	47.41	597.37
19.2 Kbps	VAN3D/VAN3P/VAN3W	47.41	597.37
56.0 Kbps	VAN4D/VAN4P/VAN4W	47.41	597.37
64.0 Kbps	VAN5D/VAN5P/VAN7W	47.41	597.37

Variable Speeds*

- 1.2 to 38.4 Kbps	VAN5D/VAN5P/VAN5W	63.39	597.37
- 1.2 to 64.0 Kbps	VAN6D/VAN6P/VAN6W	71.35	597.37

(D)

(D)

* Provided only to existing customers and services working as of January 1, 1995.

@ Non-recurring charges associated with the installation of Access Advantage Plus on a 3 year Term Pricing Plan are waived.

All USOCs are used in CABS and CRIS billing systems.

** Effective December 1, 2021, Advanced Digital Network (fixed speeds 2.4, 4.8, 9.6, 19.2, 56, and 64 Kbps) service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. See Frozen/Grandfathered Service, General Regulations 2.1.1, (F).

(N)

(N)

Material omitted now on Sheet 330-B.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.8 Digital Services (Cont'd)

(B) Advanced Digital Network (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>		(L)
		<u>Fixed</u>	<u>Per Mile</u>	
(2) <u>Channel Mileage</u>				
- Per Mile				
Fixed Speeds				
2.4 Kbps	1L5XX	\$4.74	\$5.22	
4.8 Kbps	1L5XX	4.74	5.22	
9.6 Kbps	1L5XX	4.74	5.22	
19.2 Kbps	1L5XX	4.74	5.22	
56.0 Kbps	1L5XX	4.74	5.22	
64.0 Kbps	1L5XX	4.74	5.22	
Variable Speeds#				(T)
1.2 to 38.4 Kbps	1L5XX	4.74	5.22	
1.2 to 64.0 Kbps	1L5XX	4.74	5.22	(L)
	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	
(3) <u>Optional Features and Functions</u>				
(a) <u>Bridging*</u>				
- per port	DFOCO	\$5.69	None	
(b) <u>Secondary Channel*</u>				
- per station	DFOSC	4.60	None	
(c) <u>Network Control and Diagnostics*#</u>				
- per station	DFODG	7.58	None	

** Not available with 1.544 Mbps service.

Provided only to existing customers and services working as of January 1, 1995.

(L) Material formerly on Sheet 330-A.

(N)

Continued