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SECTION 11 - ADVANCED DIGITAL SERVICES

ADVANCED DIGITAL SERVICES (ADS) BASIC RATE ACCESS (BRA)

11.A.1 GENERAL

- A. Advanced Digital Services (ADS) are a public network-based set of communications services that make it possible to send, receive, and modify information using regular telephone lines. These services are based on NI-1, the first set of the National Integrated Services Digital Network (ISDN) standards. ISDN provides end-to-end digital communications and gives the ability to transmit data and voice over the same telephone line simultaneously (a user can send information from a personal computer and talk to the person on the other end of the line at the same time). This functionality is provided via channelized transport facilities. The ISDN architecture consists of digital central office switching systems which connect Basic Rate Access (BRA) equipped lines to customers' premises.
- B. ADS BRA is an optional service arrangement that requires an access line and can be used in conjunction with a customer's residential service, individual business line or Centrex service. It uses the ISDN architecture to provide the customer with the capability to transmit voice and data simultaneously over the same digital line. Under various optional arrangements, BRA provides the customer with access to Circuit-Switched Voice Services, Circuit-Switched Data Services, and Packet-Switched Data Services.
- C. An ADS BRA arrangement obtains its capabilities from an ISDN-capable, Telephone Company central office switch. The BRA ISDN arrangement provides two communications channels (but using only one physical line) between a telephone (or computer, fax machine or other equipment) and the digital central office. These channels are called Bearer, or B Channels. Another channel, called the Delta or D Channel, is used for signaling purposes and in some applications can be used for low speed packet data communications. The complete BRA ISDN line is known as 2B+D.
 - 1. B Channel - The B Channel is a bi-directional synchronous channel capable of supporting digital transmission speeds of up to 64 kilobits per second (kbps). Some serving central offices may be limited to speeds of 56 kbps. ISDN interconnection to or through non-ISDN equipped central offices will be sub-rated to 56 kbps per channel. Each B Channel may be configured in one of the following ways:
 - a. Circuit-Switched Voice - Allows the user to originate and receive only voice calls over a single circuit-switched B Channel.
 - b. Circuit-Switched Data - Allows the user to originate and receive only data calls over a single circuit-switched B Channel.
 - c. Alternate Circuit-Switched Voice/Data - Allows the user to originate and receive either voice calls or data calls over a single circuit-switched B Channel, but not simultaneously.
 - d. B Channel Packet-Switched Data Service (where available) - Allows the user to originate and receive X.25 packet data calls on the B Channel.

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11.A.1 GENERAL (Continued)

2. D Channel - The D Channel is a 16 kbps digital signaling channel that carries signaling and control for the B Channels. The D Channel may be optionally used to transmit X.25 packet data (where available) at a maximum transmission throughput of 9.6 kbps.
- D. All ADS consist of central office facilities (including certain outside plant facilities) extended from the Telephone Company's switching equipment to the customer's demarcation point.
- E. Distance Extension Charges, as set forth in the Pricing Addendum at the end of this tariff, will apply to customers who are within the serving central office and who are served at a transmission range where unusual expenditures are required to make the service available. (T)
- F. Directory Numbers
 1. Primary Directory Number - Each B Channel includes a single primary telephone directory number. On a given 2B+D Advanced Digital Services line, calls are routed to the appropriate terminal device (voice telephone, computer/data terminal or packet device) based on the type of call (voice, data or packet) presented to the Advanced Digital Services line.
 2. Secondary Directory Numbers - ADS may have additional telephone directory numbers. The additional telephone number(s) may originate or receive calls independent of the user's Primary Directory Number; however, each B Channel is allowed only one simultaneous circuit connection at a time.

11.A.2 CIRCUIT SWITCHING SERVICE DESCRIPTIONS

Circuit Switching is a switching arrangement in which an entire circuit or, in a digital switch equipped for ISDN, a specific selection of channels is dedicated to a given call. Circuit-Switched Service provides the ability to originate and receive circuit-switched voice and/or data calls over a 56/64 kbps B Channel. The customer may choose among the following Circuit-Switched features based upon application needs:

- A. Clear Channel Capability - A characteristic of the transmission paths on the B Channels that allows the full bandwidth of 64 kbps to be available to the customer. It is also possible to bridge two B Channels together to achieve data transmission speeds of up to 128 kbps. However, ISDN interconnection to or through non-ISDN equipped central offices will be potentially sub-rated to 56 kbps per channel.

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11.A.2 CIRCUIT SWITCHING SERVICE DESCRIPTIONS (Continued)

- B. Additional Call Offering - This feature allows the user to be notified of an additional call when the telephone set is busy. Multiple incoming calls to a directory number or secondary telephone number (if purchased) can be terminated to the telephone.
- C. Multiline Hunt Service - This feature allows incoming calls to a busy directory number to search through a predetermined list of directory numbers. This may be another ADS directory number on the same (or a different) B Channel or (for voice calls) an analog line. The hunting arrangement may be linear or circular.
- D. Call Pick-Up - This feature allows the user to answer calls directed to other stations.
- E. Custom Calling Services - Applicable Custom Calling Services (except for those superseded by Advanced Digital Services counterparts) are available at rates and charges specified in the Pricing Addendum located at the end of the Company's tariff. The following Custom Calling features found specifically in this BRA tariff will be charged at rates listed in the Pricing Addendum of this tariff:
 - 1. Call Hold - This feature allows the user to place a call on hold.
 - 2. Three-Way Calling - This feature allows the user to add a third party to an existing voice call and thus enables a conference between parties at multiple locations. The user may also disconnect the last party added. The Additional Call Offering feature or Additional Call Appearances feature is a prerequisite.
 - 3. Call Transfer - This feature allows the user to transfer a voice call to another directory number. The Additional Call Offering feature or Additional Call Appearances feature is a prerequisite.
 - 4. Conference Calling - Six-Way Station Controlled - This feature allows the user to set up a conference call for up to 6 parties (including the originator of the call). The Additional Call Offering feature or Additional Call Appearances feature is a prerequisite.
 - 5. Call Forwarding - This feature allows calls to be redirected from one station to another station.

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11.A.2 CIRCUIT SWITCHING SERVICE DESCRIPTIONS (Continued)

- F. Custom Calling Services - Custom Calling Services and Enhanced Custom Calling Services are available at rates and charges specified in the Pricing Addendum at the end of this tariff. (T)
- G. Centrex Features - Applicable Centrex features (except for those superseded by Advanced Digital Services counterparts) are available at rates and charges specified in the Pricing Addendum of this tariff. (T)
- H. Electronic Key Telephone Service (EKTS) - Electronic Key Telephone Service is a central office based key system implementation that requires no switching equipment on the customer's premise. EKTS requires the customer to provide an EKTS capable terminal set. EKTS provides the customer with the ability to access the following features (where available):
 - 1. Multiple Appearance Directory Numbers - This feature allows a directory number(s) from one EKTS set to appear on the EKTS sets of other users.
 - 2. Additional Call Appearances - This feature allows the same directory number to appear more than once (by assigning the directory number to additional buttons) on a customer's telephone set, allowing the capability of multiple incoming or outgoing calls associated with that directory number. For EKTS users, this feature provides the same functionality as Additional Call Offering (or analog Call Waiting).
 - 3. Analog Line Appearances - This feature allows analog users' directory numbers to appear on an EKTS set, thereby allowing the EKTS user to provide call coverage for analog users. It may limit the use of other features and/or functionalities on analog lines.
 - 4. Bridging - This feature allows more than one EKTS set in the Multiple Appearance Directory Number group to be active on the same call simultaneously.
 - 5. Automatic Bridged Call Exclusion (Privacy on Answer) - This feature allows only one user to answer an incoming call, thereby preventing bridging on incoming calls. On a call by call basis, this feature can be disabled via Privacy (Manual Exclusion) to allow bridging to occur.
 - 6. Privacy (Manual Exclusion) - This feature allows the user to press a feature button which will restrict other stations from bridging onto an existing call that is active at that station or picking up an existing call on hold. A user who has the Automatic Bridged Call Exclusion feature can press the Privacy button to disable Automatic Bridge Call Exclusion and thereby allow bridging to occur on a given call.

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11.A.2 CIRCUIT SWITCHING SERVICE DESCRIPTIONS (Continued)

7. Intercom Calling - This feature allows for EKTS station-to-station calls. Intercom calls can be made by pressing an intercom button and dialing one or two digits.
8. Display Capability - This feature allows an appropriately equipped telephone set to display a variety of information. For example, when idle, the time and date is displayed. When the user is making a call, call progress information is displayed. The following information is also provided:
 - a. Caller ID - This feature displays the calling number and name if available. Enhanced Calling Services, including Caller ID and Toll Block services, are available under the rules and regulations and at rates and charges specified in the Pricing Addendum. of this tariff.
 - b. Called Number Display - This feature displays the called number (dialed digits) on the telephone set when an outgoing call is made.
 - c. Calling Reason Display - This feature provides a display of the directory number from which a call was redirected (via Call Forwarding features) along with the reason (type of Call Forwarding) for the call being redirected.
9. Feature Function Buttons - This feature gives the user the ability to assign features to specific buttons on the EKTS set. When depressed, the button will activate or deactivate the assigned feature.
10. Ringing Options - This feature is used with Multiple Appearance Directory Number Arrangements and allows the EKTS set to apply different combinations of ringing (ringing is turned off after a specified period of time), delayed ringing (ringing is turned off after a specified period of time), immediate ringing, no ringing, or normal ringing. On a per EKTS user basis, each directory number may have a different ringing option.

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ADVANCED DIGITAL SERVICES (ADS) BASIC RATE ACCESS (BRA)

11.A.3 PACKET-SWITCHED DATA SERVICE DESCRIPTIONS

Packet Switching is a service in which packets of data are individually addressed and combined on a transmission path with other addressed packets. Packet-Switched Data Service provides the ability to originate and receive X.25 packet data calls. X.25 is the Consultative Committee on International Telephone and Telegraph's (CCITT) recommended and internationally accepted standard for connecting data terminals to packet-switched networks.

D-Channel Packet - This service provides packet data on the D Channel at a maximum transmission throughput of up to 9.6 kbps per logical channel.

B-Channel Packet - This service provides packet data on the B Channel at a maximum transmission throughput of 64kbps per logical channel.

The customer may choose among the following Packet-Switched features (where available) based upon application needs:

- A. Hunt Groups - An arrangement that allows an incoming call to a busy packet directory number to search through a predetermined list of packet directory numbers in search of a non-busy logical channel to complete the call. The hunting arrangement may be linear or circular.
- B. X.25 Data Services:
 - 1. Logical Channels - An arrangement that is a virtual circuit, offering multiple logical connections at the packet level of X.25. Logical Channels allow multiple packet calls (or virtual calls) to be active simultaneously on a single D Channel or B Channel.
 - 2. DTE Support Feature - The Data Terminal Equipment (DTE) Feature allows the network to prevent any network-to-user signaling on a virtual circuit associated with a directory number that is not included in the X.25 version. Virtual circuit communication is allowed between the subscriber's equipment and remote customer equipment that conforms to the X.25 version. This feature is available on a per directory number basis.
 - 3. RPOA Selection - The Recognized Private Operating Agency (RPOA) arrangement allows the user to specify an Inter-Exchange Carrier or transit network for inter-network calls on a per call basis.
 - 4. Incoming/Outgoing Calls Barred - This arrangement can either be used to prohibit a data terminal from receiving an incoming call or from originating outgoing calls.

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11.A.3 PACKET-SWITCHED DATA SERVICE DESCRIPTIONS (Continued)

B. X.25 Data Services:

5. Default Information Rate Assignment Features - This arrangement allows the user to subscribe to a default information rate for each direction of communication for a virtual call.
6. Non-Standard Default Packet Sizes Feature - This arrangement allows the user to subscribe to a larger maximum packet size for each direction of communication than the default 128 octets normally provided. To have this arrangement, the user must also have the Flow Control Parameter Negotiation Feature.
7. Flow Control Parameter Negotiation Feature - This arrangement permits the negotiation on a per call basis of the flow control parameters and automatically negotiates the maximum packet size and window size for each direction of data transmission.
8. Throughput Class Negotiation - An arrangement that allows the user to request specific throughput classes (bits/second) in the call request packet for each direction of data transfer associated with a virtual call.
9. Transit Delay Feature - This arrangement allows the user to indicate a desired maximum transit delay in the call request packet on a per call basis.
10. Non-Standard Default Window Size - An arrangement that allows the selection of the default window size of 1 through 7, instead of the standard window size of 2. To have this arrangement, the user must also have the Flow Control Parameter Negotiation Feature.
11. Fast Select - An arrangement that allows a sending data terminal to forward up to 128 bytes of data along with the call setup and clearing packets.
12. Fast Select Acceptance - An arrangement that allows the switch to transmit incoming call packets with the Fast Select facility to a destination terminal that has this feature.

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11.A.3 PACKET-SWITCHED DATA SERVICE DESCRIPTIONS (Continued)

- C. Closed User Groups - An arrangement that limits communications to members within a designated subnetwork of packet switching data users. The Closed User Group feature is established on a per line basis. Each data terminal in a Closed User Group can be arranged in one of the following modes:
1. Closed User Group with Outgoing Access - The data terminal makes outgoing calls only.
 2. Closed User Group with Incoming Access - The data terminal receives incoming calls only.
 3. Incoming Calls Barred Within a Closed User Group - The data terminal makes outgoing calls only to the data terminal in the Closed User Group with which it is associated.
 4. Outgoing Calls Barred Within a Closed User Group - The data terminal receives incoming calls only to the data terminals in the Closed User Group with which it is associated.
 5. Unrestricted Access - The data terminal receives and makes both incoming and outgoing calls.

11.A.4 TECHNICAL SPECIFICATIONS

A. Transmission Specifications

The standard transmission parameters for Advanced Digital Services utilizing an ISDN Basic Rate Interface (BRA) consists of: A maximum of 38.5db loop loss at a 40Kz test tone terminated into a 135 ohm impedance. The 38.5db loss includes all central office facilities, outside plant facilities and inside wiring (which are owned and maintained by the Company only up to and including the demarcation point).

B. Customer Premise Equipment and Facilities

Compatible customer premise equipment is required to utilize ADS. All equipment used to interface with these services is required to conform with NI-1 guidelines.

The Company shall not be responsible if changes in any of the equipment, operations, or procedures of the Company utilized in the provisioning of ADS render any facilities provided by the customer obsolete or require modification of such equipment or system, or otherwise affect its use or performance.

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11.A.5 REGULATIONS

- A. Unless specifically exempted, ADS shall be subject to all general regulations applicable to the provision of service by the Company as stated in this tariff.
- B. ADS is provided at the option of the Company. This service is furnished subject to central office switching capacity, capability, the availability of outside plant facilities, and the necessary billing capabilities.
 - 1. The availability, functionality, and capabilities of ADS may vary, or may not be available, dependent upon the type of serving central office switch, related software controlling that switch, hardware, and associated outside plant.
 - a. Where facilities are not available, or unusual expenditures are involved in making them available, the customer may be required to pay additional charges to cover the unusual expenditure, or to contract for services beyond the normal service term, or both. (These rates and charges will be determined on an individual case basis.)
 - b. Distance Extension Service: ADS may be provided to a customer's location served beyond the normal transmission range of the serving central office. In such cases, in addition to the charges and rates for ADS, Distance Extension Service rates and charges as stated in the Pricing Addendum are applicable. (T)
- C. The minimum charge period for the payment of services provided under this tariff is one month.
- D. At the Company's discretion, the following nonrecurring service connection charges may be reduced or waived during promotional campaigns and/or as a part of customer negotiations:
 - 1. Nonrecurring per B Channel and/or per D Channel service connection charge.
 - 2. Nonrecurring ECTS service connection charges.
- E. Directory Listings: One directory listing is provided without charge for each ADS customer. For Centrex customers, one directory listing (either an analog or ADS number) is provided per Centrex system. Additional listings may be provided as specified in Section 7.A.5 and the Pricing Addendum of this tariff. (T)

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11.A.5 REGULATIONS (Continued)

F. Billable Call Treatment

1. Normal toll charges shall apply to calls that are made outside of the Local Service Area.
2. ADS customers who use the Call Forwarding or Call Transfer features are responsible for the payment of any applicable charges for each billable call connected via these features over the public network. The charge is applicable to each call answered, including the Call Forwarding set-up call. It also applies to collect and person-to-person calls, which may be refused at the answering station.

G. Customer Premise Equipment

1. This tariff for ADS does not include terminal equipment on the customer's premises. Terminal equipment may be sold or leased separately by the Company (under a separate contract), or may be provided by the customer.
2. The customer is responsible for providing the power required for any and all customer premise equipment connected to an Advanced Digital Services equipped line.

H. The Company shall not be liable for any loss or damages arising out of error, interruptions, defects, failures, or malfunctions of ADS or associated equipment. Damages arising out of such interruptions, defects, failures, or malfunctions of the services after the Company has been notified, and has reasonable time for repair, shall in no event exceed an amount equivalent to the charges made for the service affected for the period following notice from the customer until service is restored.

I. ADS-BRA is not eligible for vacation rates and is not offered for joint use service.

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ADVANCED DIGITAL SERVICES (ADS) BASIC RATE ACCESS (BRA)

11.A.6 RATES AND CHARGES

A. Advanced Digital Services Access

1. ADS must be ordered in conjunction with basic exchange access services (e.g., R1, B1, Centrex). The rates and charges below are in addition to the existing rates for these services for providing an ADS capable line to the customer's premises. These charges provide a 0B + 0D ISDN service. ADS is available in 1B +D and 2B + D configurations. The customer must select the desired B Channels and D Channel arrangements to configure the service as required. When the Basic Exchange Access Service is ordered at the same time that ADS-BRA is ordered, the service connection charges listed in the Pricing Addendum of this tariff apply. Charges in the Pricing Addendum of this tariff do not apply to ADS-BRA. The monthly and nonrecurring rates for the services below are listed in the Pricing Addendum at the end of this tariff. (T)
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Access

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Residential Advanced Digital Services

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Single Line Business Advanced Digital Services

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Centrex Advanced Digital Services

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Distance Extension Charge

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B. Communications Channels

Service Element

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Circuit-Switched Voice
(per B Channel)

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Circuit-Switched Data
(per B Channel)

(M)

Circuit-Switched Alternate Voice/Data
(per B Channel)

(M)

High Speed Packet Switched Services
(per B Channel)

(M)

Low Speed Packet Switched Services
(per D Channel)

(M)

D Channel Signaling
(per D Channel)

(M)

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11.A.6 RATES AND CHARGES (Continued)

B. Communications Channels (Continued)

2. Usage Charges

- a. Circuit-Switching - The usage charges will be assessed on local calls originating from access lines equipped with Advanced Digital Services. These rates are located in the Pricing Addendum at the end of this tariff. Measured usage is not available for customers that have unlimited usage service. A customer's B Channels on BRA equipped lines will be either all measured usage or all unlimited usage service on data calls. (T)

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1. Directory Numbers

- a. Additional Directory Numbers will be available at the rates as listed in the Pricing Addendum at the end of this tariff. (T)

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11.A.6 RATES AND CHARGES (Continued)

- C. Circuit-Switched Features. The monthly and nonrecurring rates
are listed in the Pricing Addendum at the end of this tariff.

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Current rates, charges, and multiple feature discounts for applicable Custom Calling, Enhanced Custom Calling, and Centrex Services may be found in the appropriate sections of this tariff. For analog lines, the rates and charges for these services are normally applied on a per line basis. For lines equipped with Advanced Digital Services, the rates and charges for these services are applied on a per B Channel basis (to each B Channel to which these services are assigned).

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11.A.6 RATES AND CHARGES (Continued)

C. Circuit-Switched Features (Continued)

1. (T)
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2. Service establishment charges.

When the above features are ordered as part of an initial service order with an Advanced Digital Services B Channel, there is no service establishment charge for these services.
3. Subsequent feature additions and changes

When the above features are ordered or modified after the initial installation of an Advanced Digital Services B Channel, the nonrecurring feature addition and change charge is as follows:

| | |
|--|-----------------------------|
| <u>Charge</u> | |
| Feature Additions and Changes (per B Channel) | See Pricing Addendum (T)(M) |

Only one service charge will appear when multiple features are added or changed on a B Channel as part of the same service order.

Current rates, charges, and multiple feature discounts for applicable Custom Calling, Enhanced Custom Calling, and Centrex Services may be found in the appropriate sections of this tariff. For analog lines, the rates and charges for these services are normally applied on a per line basis. For lines equipped with Advanced Digital Services, the rates and charges for these services are applied on a per B Channel basis (to each B Channel to which these services are assigned).

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11.A.6 RATES AND CHARGES (Continued)

D. Electronic Key Telephone Service (EKTS)

1. The monthly and nonrecurring rates listed in the Pricing Addendum shown below apply to EKTS features. To have EKTS, a line must have at least one Advanced Digital Services Circuit-Switched Voice or Circuit-Switched Alternate Voice/Data B Channel.

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11.A.6 RATES AND CHARGES (Continued)

D. Electronic Key Telephone Service (EKTS)

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2. Subsequent feature additional and changes

When EKTS features are ordered or modified after the initial installation of EKTS, the nonrecurring feature addition and change charge as listed in the Pricing Addendum will apply.

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Only one service charge will appear when multiple features are added or changed on a B Channel as part of the same service order.

Current rates, charges, and multiple feature discounts for applicable Custom Calling, Enhanced Custom Calling, and Centrex Services may be found in the Pricing Addendum of this tariff. For analog lines, the rates and charges for these services are normally applied on a per line basis. For lines equipped with Advanced Digital Services, the rates and charges for these services are applied on a per B Channel basis (to each B Channel to which these services are assigned).

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11.A.6 RATES AND CHARGES (Continued)

E. Packet-Switched Services

1. The monthly and nonrecurring rates listed in the Pricing Addendum apply to Packet-Switched Service. D Channel Packet or B Channel Packet is a prerequisite for these services. (T)

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2. Subsequent feature additions and charges

When packet switching features and/or parameters are ordered or modified after initial installation, the nonrecurring feature addition and change charge listed in the Pricing Addendum will apply.

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Only one service charge will appear when multiple features or parameters are added or changed on a D Channel as part of the same service order.

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SECTION 11 - ADVANCED DIGITAL SERVICES
Digital Channel Service (DCS)

11.B.1. GENERAL

- A. Digital Channel Service (DCS) is an optional packaged service arrangement that is used in conjunction with a customer's business trunks. It packages Private Branch Exchange trunks and DID trunks with a T-1 transmission facility.
- B. DCS facilities provide an intraexchange connection between a customer's premises and the local serving central office. DCS is based on DS1/DS0 technology, also known as T1 service. This service arrangement uses the DS1/DS0 architecture to provide a 1.544Mbps connection. The customer is then provided the capability to transmit voice and/or data over 56Kbps channels of that digital facility. Each DS1 facility provides up to 24 56Kbps (DS0) channels.
- C. Digital Channel Service is only offered on Term Payment Plans of 12, 24, 36, 48 or 60 months.

11.B.2. DCS PACKAGING

- A. DCS service arrangement connects a Telephone Company central office switch to Customer Premises Equipment (CPE). Depending on the application, that CPE might be a PBX, a router, a multiplexer, etc. Each DCS provides up to twenty-four digital communications channels.
- B. Digital Channel Service packages the following components:
 - Digital Facility - includes the DS1 facility and terminating equipment at each end.
 - Exchange Services (per channel) - defines how each channel is to be used.

11.B.3. TECHNICAL SPECIFICATIONS

- A. Transmission Specifications - this facility is based on a 1.544 Mbps DS1 carrier (T1 facility) whose characteristics are as follows:
 - Data Rate= 56 kbps restricted
- B. Customer Premise Equipment and Facilities - compatible customer premise equipment is required for DCS. The Company shall not be responsible if changes in any of the equipment, operations, or procedures of the Telephone Company used in the provisioning of DCS render any facilities provided by the customer obsolete or require modification of such equipment or system, or otherwise affect its use or performance.

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Digital Channel Service (DCS)

11.B.4. REGULATIONS AND CONDITIONS

- A. Unless specifically exempted, DCS shall be subject to all general regulations applicable to the provision of service by the Company as stated in this tariff.
- B. DCS is furnished subject to central office switching capacity, capability, and the availability of outside plant facilities.
- C. Payment for Service
 - 1. The minimum charge period for services provided under this tariff is one year.
 - 2. Suspension of service is not allowed during the minimum charge period or contract period without penalty.
- D. At the Company's discretion and subject to Commission rule and regulations, nonrecurring charges may be reduced or waived during promotional campaigns (minimum service periods will apply).
- E. Directory Listings - One directory listing is provided without charge for each exchange service. Additional listings may be provided at the rate listed in the Pricing Addendum of this tariff. (T)
- F. Customer Premises Equipment
 - 1. This tariff does not include terminal equipment on the customer's premises.
 - 2. The customer is responsible for providing the power required for any customer premise equipment connected to DCS.
- G. End User Common Line (EUCL) Charges - DCS is subject to Federal Communications Commission (FCC) End User Common Line (EUCL) charges under the rates and application rules specified by the FCC.
- H. The Company shall not be liable for any loss or damages arising out of error, interruptions, defects, failure, or malfunctions of DCS or associated equipment. Damages arising out of such interruptions, defects, failures, or malfunctions of the services after the Company has been notified, and has reasonable time for repair, shall in no event exceed an amount equivalent to the charges made for the service affected for the period following notice from the customer until service is restored.

11.B.5. RATES AND CHARGES

- A. The monthly and nonrecurring rates for Digital Channel Service Facility are listed in the Pricing Addendum listed at the end of this tariff. (T)

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Digital Channel Service (DCS)

11.B.5. RATES AND CHARGES (continued)

B. Channel Services and Term Discounts

For each channel activated, a trunk charge will be applied. The rate for the trunk will be established as a discount of the trunk charge found in the Pricing Addendum of this tariff. The customer may subscribe to either the measured rate as found in the Pricing Addendum.

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(Customers subscribing to DCS will not be billed a link charge .The link rate is included in the Access Facility charge).

Once a term payment has expired, a new plan must be entered into. If a new plan is not entered into, the trunk rates in the Pricing Addendum will apply without the discounts listed above.

(T)

C. Subsequent feature additions and changes

When features are ordered or modified after the initial installation of DCS, the nonrecurring Feature Addition and Change charge (per DCS facility) listed in the Pricing Addendum is applied in addition to the normal charges reflected in this tariff:

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Only one service charge will apply when multiple features are added or changed on a DCS facility as part of the same service order.

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PRIMARY RATE ACCESS

11.C.1. GENERAL

- A. ISDN architecture provides two access methods that connect customers' premises to network switching systems, Primary Rate Access (PRA) for large quantities of connections and Basic Rate Access (BRA) for smaller numbers of connections. PRA facilities are typically used for business only.
- B. PRA is an optional service arrangement that must be configured with 24 PBX Trunks. This service arrangement uses the ISDN architecture to provide the customer with the capability to transmit voice and data simultaneously over the same digital facility. Under various optional arrangements, PRA provides the customer with access to Circuit Switched Voice Services and Circuit Switched Data Services. In general, this tariff addresses standardized National ISDN-1 (NI-1) capabilities and features.
- C. PRA is offered on Term Payment Plans of 12, 24, 36, 48 or 60 months.

11.C.2. PRIMARY RATE INTERFACE SERVICE ARRANGEMENT

- A. PRA Service Arrangement connects an ISDN-capable Telephone Company central office switch to ISDN-capable Class II Customer Premises Equipment (CPE). Depending on the application, the CPE might be a PBX, a router, a multiplexer, etc. Each PRA service arrangement provides twenty-three or twenty-four digital communications channels.

These communication channels can be either B (Bearer) Channels or D (Delta) Channels:

- 1. B Channel - The B Channel is a bi-directional synchronous channel capable of supporting digital transmission speeds of 56 kilobits per second (kbps) or 64 kilobits per second, where available. Each B Channel of an Advanced Digital Services PRA may carry:
 - (1) Circuit Switched Voice
 - (2) Circuit Switched Data, or
 - 2. D Channel - The D Channel is a 56 or 64 kbps digital signaling channel that carries signaling and control for the B Channels.
- B. Primary Rate Access Facility - The Primary Rate Access Facility provides a high-capacity digital link over which the Advanced Digital Services PRA capabilities are delivered. This facility is based on a 1.544 Mbps DS1 carrier (T1 facility). The typical PRA Access Facility configuration is known as 23B+D, where twenty-three of the channels are B Channels and one is a D Channel.

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PRIMARY RATE ACCESS

11.C.2. PRIMARY RATE INTERFACE SERVICE ARRANGEMENT(Cont'd)

- C. Multiple PRA Facility Arrangement - There may be situations where more than 23 B Channels are needed at a particular customer premise. In those situations, depending on facility availability, multiple PRA facilities can be assigned to an Advanced Digital Services PRA Service Arrangement. With the Multiple PRA Facility Arrangement, the D Channel in the first PRA facility is used to transport signaling for up to four additional PRA facilities. The first facility would be configured as 23B+D and the other facilities would be configured as 24B. This use of Non-Facility Associated Signaling (NFAS) allows the overhead of the D Channel to be distributed over multiple PRI facilities thereby increasing channel efficiency.
- D. D Channel Backup - In Multiple PRA Facility Arrangements, a second D Channel can be assigned (where available) to the primary D Channel to provide redundancy of the signaling channel.
- E. Distance Extension Charge - provides an additional approximately one mile of transmission facility beyond the 12,000 ft provided with the PRA Facility. If a customer is located a great distance from the Company central office, it is possible that several Distance Extension Charges could be required per PRA Facility.

11.C.3. CIRCUIT SWITCHED SERVICE DESCRIPTIONS

Circuit Switching is a switching arrangement in which an entire circuit or B Channel is dedicated to a given call. The circuit is connected on a per-call basis and can carry circuit switched voice or circuit switched data. Circuit switched related services include:

- A. Clear Channel Capability - This feature is a characteristic of the transmission paths on the B Channels that allows the full bandwidth of 64 kbps to be available to the customer. (Clear Channel Capability cannot be guaranteed outside the serving central office. Interoffice traffic may be subrated to 56 kbps.) Clear Channel Capability is applicable to CPE that supports clear channel capability.
- B. Dedicated Trunk Groups - The B Channels of PRA can be dedicated for calls to and from the public network. Trunk Group types include Incoming, Outgoing, 2-way, Direct Outward Dialing (DOD) or Direct Inward Dialing (DID).
- C. Primary Rate Call-by-Call Service - The Primary Rate Call-by-Call feature offers access to additional services via the B Channels of PRA. These additional services include:
 - Foreign Exchange
 - OutWATS
 - InWATS

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11.C.3. CIRCUIT SWITCHED SERVICE DESCRIPTIONS (Cont'd)

With this feature, any B Channel can be used to offer the above services on a per-call basis, in addition to supporting trunk calls to/from the public network (i.e., DOD/DID).

Simulated Facility Groups (SFG) are used to control the number of B Channels that can be used for a particular service or for calls to the public network. The SFG is a logical relationship between the services (or public network calls) and the number of B Channels. Any B Channel may be used for any service (or for public network calls) provided the actual number of calls currently active for that service does not exceed the maximum-allowed value associated within the SFG.

- D. Directory Numbers - Directory numbers may be purchased at rates listed in the Pricing Addendum located at the end of this tariff. (T)
- E. Caller ID (Number) - This feature allows the central office and the customer's suitably equipped CPE to communicate the calling party's directory number. On calls carried by the PRA, the number can then be made available to be displayed on a properly equipped telephone set or adjunct equipment.
- F. Caller ID (Name) - This feature (where available) allows the central office and the customer's suitably equipped CPE to communicate calling party name information (associated with the calling party's directory number) on calls carried by the PRA. The name can then be made available to be displayed on a properly equipped telephone set or adjunct equipment.

11.C.4. TECHNICAL SPECIFICATIONS

- A. Transmission Specifications - The PRA facility requires a high-capacity digital link over which PRA is delivered. This facility is based on a 1.544 Mbps DS1 carrier (T1 facility) whose characteristics are as follows:

| | | |
|----------------|---|---|
| Line Code | = | Bipolar 8 Zero Substitution (B8ZS) |
| Framing Format | = | Extended Super Frame (ESF) |
| Signaling | = | Common Channel Signaling (CCS) |
| Data Rate | = | 64 kbps clear or 56 kbps restricted |
| D Channel | = | 24th channel on the appropriate PRA access facility |

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11.C.4. TECHNICAL SPECIFICATIONS (Cont'd)

- B. Customer Premises Equipment Facilities - Compatible customer premises equipment is required for PRA. All equipment used with these services is required to conform with National ISDN guidelines, as referenced in the following Bellcore specifications:

| <u>Document Number</u> | <u>Description</u> |
|------------------------|---|
| TR-NWT-001268 | ISDN Primary Rate Access Call Control Switching and Signaling Generic Requirements for Class II Equipment |
| SR-NWT-002343 | ISDN Primary Rate Access Generic Guidelines for Customer Premises Equipment |

The Telephone Company shall not be responsible if changes in any of the equipment, operations, or procedures of the Company used in the provisioning of PRA render any facilities provided by the customer obsolete or require modification of such equipment or system, or otherwise affect its use or performance.

11.C.5. REGULATIONS AND CONDITIONS

- A. Unless specifically exempted, PRA shall be subject to all general regulations applicable to the provision of service by the Telephone Company as stated in this tariff.
- B. PRA and its optional services are furnished subject to central office switching capacity, capability, and the availability of outside plant facilities.
1. The availability, functionality, and capabilities of PRA may vary, or may not be available, dependent upon type of serving central office switch, related software controlling that switch, and associated outside plant.
- (a) Where facilities are not available, or unusual expenditures are involved in making them available, the customer may be required to pay additional charges to cover the unusual expenditure, or to contract for services beyond the normal service term, or both.

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11.C.5. REGULATIONS AND CONDITIONS (Cont'd)

B. (Cont'd)

2. Alternate Serving Arrangements: Where the customer's serving central office is not PRA capable, the Company, at its discretion, may provide service from an alternate serving central office at no additional charge to the customer. Such provisioning may be elected when, at the discretion of the Company, the service can be provided at a reasonable cost to the Company. The customer must accept the serving location assigned by the Company, and must agree to revert to service from the normal serving central office when PRA is available in that office.
 - (a) This arrangement may require that the customer accept a directory number change to a number associated with the alternate central office.
 - (b) Calls that are originated by, and terminated to, a customer using this service arrangement will be billed as if the calls were placed from the customer's normal serving central office.
 - (c) When PRA subsequently becomes available from the customer's normal serving central office, the customer will be reconnected to the normal serving central office. This may also require a directory number charge. If such changes occur, the nonrecurring charge associated with the change will not be applicable. If the customer does not wish to take service from the normal central office after such service becomes available, but continues to use service from the alternate serving central office, charges for distance extensions (foreign exchange service or special outside facilities) will apply. If foreign exchange service is used, the rates for foreign exchanges will be applied in addition to the PRA rates. Any other special outside plant facilities used to provide PRA will be tarified on an individual case basis.
 - (d) The availability, functionality, and capabilities of PRA may vary when a customer's serving central office is equipped to provide such services.
 - (e) Situations where the customer specifically requests service from a central office other than its normal serving central office will be handled on an individual case basis.

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PRIMARY RATE ACCESS

11.C.5. REGULATIONS AND CONDITIONS (Cont'd)

- C. Interconnection (T)
1. PRA service is provided for use by the end user customer only as a local switched service. PRA service is not available for use by Commercial Mobile Radio Carriers, private Mobile Radio Carriers, Interexchange Carriers, VoIP Service Providers or other carriers or providers for use in aggregating or transporting inter-exchange traffic. Such usage is strictly prohibited by this Tariff. Other services designed for and intended for such use are offered by the Company specifically via interconnection agreement or the Access Tariff. (C)
- D. Payment for Service
1. The minimum charge period for services provided under this tariff is one year.
2. Suspension of service is not allowed during the minimum charge period without penalty. If the customer disconnects PRA prior to the 12, 24, 36, 48 or 60 month service term agreement, the customer will pay a charge equal to the PRA monthly rate in affect on the date of the contract, multiplied by the remaining number of months on the term agreement for each PRA disconnected. (C)
- D. Payment for Service
3. In the event the customer cancels the contract after installation of the required equipment and facilities but before service is established, the customer will pay the applicable installation charges.
- E. Nonrecurring charges may be reduced or waived during promotional campaigns (minimum service periods will apply).
- F. Directory Listings - Directory Listings may be provided as specified for in Section 7 of this Tariff.
- G. Billable Call Treatment
1. Normal toll charges (including InWATS and OutWATS charges) shall apply to calls that are made outside the Local Service Area.
2. PRA customers who use the Call Forwarding or Call Transfer features are responsible for the payment of any applicable charges for each billable call connected via these features over the public network. The charge is applicable to each call answered, including the Call Forwarding set-up call. It also applies to collect and person-to-person calls, which may be refused at the answering station.

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PRIMARY RATE ACCESS

11.C.5. REGULATIONS AND CONDITIONS (Cont'd)

H. Customer Premise Equipment

1. This tariff does not include terminal equipment on the customer's premises. Terminal equipment may be covered under a separate tariff, sold or leased separately by the Telephone Company (under a separate contract), or may be provided by the customer.
2. The customer is responsible for providing the power required for any customer premises equipment connected to PRA.

I. End User Common Line (EUCL) Charges: PRA is subject to Federal Communications Commission (FCC) End User Common Line (EUCL) charges under the rates and application rules specified by the FCC.

J. The Company shall not be liable for any loss or damages arising out of error, interruption, defects, failure, or malfunctions of PRA or associated equipment. Damages arising out of such interruptions, defects, failures, or malfunctions of the services after the Company has been notified, and has reasonable time for repair, shall in no event exceed an amount equivalent to the charges made for the service affected for the period following notice from the customer until service is restored.

11.C.6. RATES AND CHARGES

A. Primary Rate Access (PRA) Facility

1. Basic PRA Service is provided assuming a Dedicated Trunk Configuration. Optional PRA capabilities may be used to alter that configuration. Additional charges for the PRA capabilities are listed in the Pricing Addendum located at the end of this tariff.

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PRIMARY RATE ACCESS

11.C.6. RATES AND CHARGES (Cont'd)

B. Circuit-Switched Features

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(T)

(T)

(M)
(T)

(M)
(T)

(M)
(M)
(T)

(M)
(T)

(M)

C. Subsequent Feature Additions and Changes

When the above features are ordered or modified after the initial installation of PRA, the nonrecurring feature addition and change charge reflected in the Pricing Addendum is applied per PRA facility in addition to the normal charges reflected in this tariff:

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Only one service charge will apply when multiple features are added or changed on a PRA facility as part of the same service order.

E. Term Discounts - applicable to the Primary Rate Access monthly rate are listed in the Pricing Addendum.

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(M)
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