INTEGRATED SERVICES DIGITAL NETWORK   (C)

1.   DESCRIPTION

Integrated Services Digital Network (ISDN) is a digital architecture that provides an integrated voice/data capability to the customer premises facility, utilizing the public switched network. ISDN distributes voice, data, image and facsimile by two standard methods of access: a Basic Rate Interface (BRI) or a Primary Rate Interface (PRI).   (C) (C)

2.   DEFINITIONS

Basic Rate Interface   (T)

BRI consists of up to three distinct channels on one pair of wire: one or two B (Bearer) Channels and one D (Delta) Channel. BRI is offered on either an individual case basis or in a packaged offering, referred to as Single Line ISDN Service.   (T) (T)

B (Bearer) Channel

The B-channel carries circuit-switched voice and/or data communications at speeds up to 64 Kilobits per second (Kbps), from the customer's premises, over the loop facility, to the central office.   (T) (T)

B-Channel Circuit-Switched Data

Circuit-switched Data provides the capability of making data calls over the public switched network. Information is transmitted the same way as digitized voice. Like a voice call, a circuit-switched data call ties up network/system resources for the duration of the call. Similar to voice, Calling Line Identification functionality is provided.

INTEGRATED SERVICES DIGITAL NETWORK (cont'd)   (C)

2.   DEFINITIONS (cont'd)   (T)

D (Delta) Channel

The D-channel carries signaling and/or packet data information, at speeds up to 16 Kbps on BRI, and   (T)
signaling only information up to 64 Kbps for PRI, from the customer's premises to the central office. The   (T)
D-channel has both data and signaling functionality; it does not have voice capability.

D-Channel Packet-Switched Data   (T)

The X.25 Logical Circuit Call allows users to originate and receive X.25 data calls over the D-channel.   (T)
Multiple data calls can be active simultaneously on a single D-channel.

Digital Subscriber Loop

The ISDN basic rate interface loop from the Central Office to the customer's premises.

Primary Rate Interface (PRI)   (T)

PRI has a capacity of 1.544 Megabits per second (Mbps) and has multiple channels: 23 B-channels and 1   (T)
D-channel, and is also known as 23B+D access. The B-channels carry the circuit-switched voice/data while
the D-channel handles signaling information.

T1 Facility

This element is the digital facility transmitting at a rate of 1.544 Mbps.   (T)

3.   TERMS AND CONDITIONS

    A.   GENERAL

        1.   The customer or the customer's authorized agent will be responsible for the procurement of associated customer premises equipment (CPE) and will ensure compatibility with the ISDN digital switch serving the customer.

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INTEGRATED SERVICES DIGITAL NETWORK (cont'd)   (C)

3.   TERMS AND CONDITIONS (cont'd)   (T)

        A.   GENERAL (cont'd)   (T)

                2.   Single Line ISDN includes a comprehensive 2B+D package. Contained in the standard   (T)
                        package are numerous voice and data features. The standard features and functions
                        support two terminals per BRI. Within the standard package there is limited flexibility for   (T)
                        customization and various optional features can be added. Single Line ISDN does not   (T)
                        offer B-channel Packet Service capabilities.

                3.   Company shall terminate ISDN at the Company network interface.   (T)

                4.   Should any change in inside wiring (including riser cable) not owned by the Company, or
                        CPE, require the Company to redesign ISDN, the customer shall reimburse the Company   (T)
                        for all costs incurred by the Company in making such a change. Should ISDN fail due to   (T)
                        inside wiring (including riser cable) not owned by the Company, CPE, or power failure,
                        the responsibility for failure shall be solely that of the customer and the Company shall
                        have no liability of any kind.

                5.   The customer is responsible for placement, installation, operation, maintenance, repair
                        and replacement of all inside wire (including riser cable), not owned by the Company,
                        and CPE that the Customer uses in connection with this service. Premises wiring and   (T)
                        CPE must be compatible with the Company's provision of ISDN.

                6.   If there is an ISDN Service interruption, disconnection, error, performance failure, or   (C)
                        some other out-of-service condition occurs and lasts for more than 24 consecutive hours
                        after the customer gives the Company notice of such out-of-service condition, except for
                        problems caused by the customer's actions, inside wiring (including riser cable),
                        interface, and/or CPE, an out-of-service credit will be applied to the customer's bill. This
                        credit shall be based on a 30 day month and shall be calculated by dividing the monthly
                        rate for the service affected by 30 days and multiplying that daily rate by the number of
                        days, or major fraction thereof (i.e. more than 12 hours), that the service was interrupted.
                        This will be the customer's sole remedy. The company shall not be liable for   (T)
                        consequential or incidental charges of any kind, including but not limited to lost profits.   (T)

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INTEGRATED SERVICES DIGITAL NETWORK (cont'd)   (C)

3.   TERMS AND CONDITIONS (cont'd)   (T)

     B.   AVAILABILITY

          1.   The rates and charges specified for Single Line ISDN are applicable only to customers   (T)
               whose serving central office has been identified by the Company as having ISDN
               available. Customers whose serving central office has not been identified as having ISDN
               available will have rates and charges determined on an individual case-by-case basis.

          2.   Single Line ISDN may be provided to customers from a central office other than their   (T)
               normal serving office depending on available facilities.

          3.   ISDN is offered where facilities and equipment are available.   (T)

          4.   Some services are not available and/or compatible with ISDN.

          5.   D-Channel Packet-Switched Data and Primary Rate Interface (PRI) are currently not   (T)
               available.

     C.   INDEMNIFICATION

          1.   It is the customer's responsibility to indemnify and hold harmless the Company against
               any and all claims, losses, liabilities, damages and lawsuits brought by any person or
               entity and arising, in whole or in part, out of customer's material breach of this Tariff.
               Indemnification shall include, but is not limited to, costs and attorney's fees.

          2.   Customer is responsible for the content of communications. Where customer's negligence
               or wrongful actions in using inside wire (including riser cable) not owned by the
               Company, CPE or customer's communications result in any claim or legal action brought
               by any person or entity, customer shall indemnify and hold the Company harmless.

     D.   PROTECTION OF THE NETWORK

          1.   The Company has the right and option to check the output of any equipment used in the
               transmission of signals, to or from the customer premises, for this service. This includes
               Company provided facilities or other companies' facilities used in connection with
               provision of ISDN capabilities, such as customer provided equipment.

<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd)   (C)

3.   <u>TERMS AND CONDITIONS</u> (cont'd)   (T)

    D.   <u>PROTECTION OF THE NETWORK</u> (cont'd)   (T)

        2.   When it detects a problem the Company will notify the customer of any deviation from the authorized transmissions or specifications established in provision of the service. The Company has no duty to inspect for such unauthorized transmissions or specifications, but may do so from time to time to protect company property.

        3.   Upon notification by the Company that unauthorized transmissions are present due to customer equipment or facilities, the customer or customer's authorized agent will correct the situation on an expeditious basis or service will be disconnected by the Company to protect the network. The company shall not be liable for and disclaims liability for losses   (T)
which might be incurred as a result of disconnecting the service and disclaims any and all
implied warranties. Including without limitation, warranties of merchantability and
fitness for a particular purpose with respect to such equipment or service. The company
shall not be liable for any incidental or consequential damages including, but not limited
to loss, damage, or expense directly or indirectly arising from the customer's use of or
inability to use this service or equipment, either separately or in combination with other
services or equipment.   (T)

    E.   <u>CONTRACT</u>

        Each customer, who is not subscribing to Single Line ISDN or Primary Rate Interface, will be   (T)
required to sign a contract for the furnishing of ISDN not provided under this Tariff. Additions or   (T)
changes to the contract may be negotiated only with agreement by both parties to new terms.

4.   <u>SINGLE LINE ISDN</u>   (T)

    Single Line ISDN is compatible with National ISDN 1 and includes circuit-switched voice, circuit-   (T)
switched data and packet functionality.

                                                                            (D)

                                                                                (D)

<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd)   (C)

4.   <u>SINGLE LINE ISDN</u> (cont'd)   (T)

     A.   <u>STANDARD FEATURES AND FUNCTIONS</u>   (T)

          Two sets of features are being offered: One for "voice" and one for "data". Because of CPE   (M)
          selected by the customer or the customer's agent, some of the features offered may function |
          differently, may not be available or may be required to be offered via an access code. The standard   (M)
          features and functions support two terminals per BRI. The feature sets are as follows: (T)

          1.   <u>VOICE:</u>   (C)

               a.   *Additional Functional Calls* - This feature allows up to five appearances of the   (T)
                    Primary Directory Number or Additional Directory Numbers on the same terminal.
                    If this feature is selected, the Primary Directory Number or Additional Directory
                    Numbers cannot appear on any other terminal.

               b.   *Call Exclusion* - This feature has three options: (T)

                    1.   <u>Automatic Exclusion</u> - This option allows a user to restrict other users that   (T)
                         share a Directory Number from bridging onto an active call or from
                         retrieving a held call. This option is automatically invoked whenever the
                         user goes off-hook to receive or place a call.

                    2.   <u>Automatic Exclusion with Privacy Release</u> - This option allows a user to   (C)
                         allow other users that share a restricted Directory Number to bridge onto an
                         active call or to retrieve a held call. This option is activated by pressing a
                         feature button before dialing or during the call.

                    3.   <u>Non-Exclusion</u> - This option allows the users of a Shared Directory Number   (T)
                         to bridge onto an active call or to retrieve a held call. This option is
                         automatically invoked whenever the user goes off hook to receive or place a
                         call.

<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd)   (C)

4.   <u>SINGLE LINE ISDN SERVICE</u> (cont'd)   (T)

     A.   <u>STANDARD FEATURES AND FUNCTIONS</u> (cont'd)   (T)

         1.   <u>VOICE</u> (cont'd):   (C)

           c.   *Call Forward - Don't Answer* - This feature allows all calls to a Primary Directory Number which does not answer within a predefined period of time to be forwarded to another number either within the same central office, or in a different central office.   (T)

           d.   *Call Forwarding Busy Line-All Calls* - This feature allows all calls to a busy Primary Directory Number to be forwarded to another number either within the same central office or in a different central office.   (T)

           e.   *Call Forwarding Variable - All Calls* - This feature allows all Primary Directory Number calls to be forwarded to another number either within the same central office, or in a different central office. The forward-to number is customer changeable. The user must activate or deactivate the forwarding function by using either an access code or a feature button.   (T)

           f.   *Call Hold* - This feature allows the user to place a call on hold by depressing a button or dialing an access code.   (T)

           g.   *Caller Identification Blocking* - Per Call - This feature enables a customer to control the disclosure of his/her name and/or directory number to a subscriber of Caller Identification (where technically feasible) by temporarily changing the public/private status indicator of the directory number. A customer must dial a code before each call to change the indicator from public to private. "Public status" allows delivery of the name and/or directory number. "Private status" prevents delivery of the name and/or directory number. Per Call Blocking is provided at no charge.   (T)

INTEGRATED SERVICES DIGITAL NETWORK (cont'd)   (C)

4.   SINGLE LINE ISDN SERVICE (cont'd)   (T)

    A.   STANDARD FEATURES AND FUNCTIONS (cont'd)   (T)

        1.   VOICE (cont'd):   (C)

        h. *Calling Line Identification* - Calling Line Identification is provided on both an incoming and outgoing basis.   (T)

            1. Incoming Calling Line Identification - This feature displays the call identification information and the calling party's directory number (including non-published and non-listed directory numbers) prior to the call being answered. Calling party's name is currently not available for ISDN services. Callers have the ability to inhibit the display of calling party information to the terminating number. Calling Line Identification is provided to the Primary Directory Number and to additional Directory Numbers. Calling Line Identification cannot just display to the Primary Directory Number when the number is shared.   (T)

            2. Outgoing Calling Line Identification - This feature provides a user who is originating a call with information about the called party and the facility or destination.   (T)

        i. *Flexible Calling Features* -   (T)

            1. Conference 3 - This feature allows a user to establish a three-way conference. Six-way conferences are available at additional charges.   (T)

            2. Drop - This feature allows the user to drop the last party added to a conference call or to disconnect a two-party call.   (T)

            3. Transfer - This feature enables the user to transfer a call to a third party.   (T)

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INTEGRATED SERVICES DIGITAL NETWORK (cont'd)   (C)

4.   SINGLE LINE ISDN SERVICE (cont'd)   (T)

        A.   STANDARD FEATURES AND FUNCTIONS (cont'd)   (T)

        1.   VOICE (cont'd):   (C)

                j.   Primary Directory Number (PDN)   (T)

                        The main Directory Number assigned to each terminal will be considered the Primary Directory Number of that terminal.

                k.   Ringing   (T)

                        Ringing begins immediately for an incoming call and continues until the call is forwarded, answered, or abandoned.

                l.   Shared Directory Number   (T)

                        This feature allows several terminals to share one or more Directory Numbers of existing PDNs or Additional Directory Numbers. Origination of and termination of calls on one terminal will affect all terminals sharing the Directory Numbers. All Shared Directory Numbers must be provisioned from the same serving central office. If more than five Shared Directory Numbers are assigned to a terminal, additional charges will apply. A Shared PDN or Shared Additional Directory Number can only appear once on a terminal.

                m.   Speed Calling 10   (T)

                        This feature permits the user to dial pre-programmed numbers using fewer digits than normally required. A standard speed call list allows for up to ten preprogrammed numbers per terminal. Speed Calling 30, a call list with 30   (C)
                        members, is an Optional Feature described later in this section and is available at   (C)
                        additional charges.

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<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd) (C)

4. <u>SINGLE LINE ISDN SERVICE</u> (cont'd) (T)

   A. <u>STANDARD FEATURES AND FUNCTIONS</u> (cont'd) (T)

      2. <u>DATA (B-Channel)</u> (C)

         a. *Call Forwarding Busy Line for Circuit-Switched Data* (T)

            This feature permits all circuit-switched data calls, attempting to terminate to a busy PDN, to be redirected to another customer-specified directory number. A busy line condition exists when a circuit-switched data B-channel is unavailable. This feature can either be assigned to the user on an active basis or it can be assigned an access code that can be activated or deactivated by the user.

         b. *Call Forwarding Don't Answer for Circuit-Switched Data* (T)

            This feature permits all circuit-switched data calls attempting to terminate to an idle PDN to ring a specified number of seconds prior to being forwarded to a previously specified directory number. This feature can either be assigned to the user on an active basis or it can be assigned an access code that can be activated or deactivated by the user.

         c. *Call Forwarding Variable-All Calls for Circuit-Switched Data* (T)

            This feature allows circuit-switched data calls, attempting to terminate to a line, to be redirected to another specified line. The user must activate or deactivate the forwarding function by using an access code.

      3. <u>DATA (D-Channel)</u> (C)

         a. *X.25 Flow Control Parameter Negotiation* - This packet feature permits negotiation on a per-call basis of the flow control parameters associated with a given virtual call, such as packet size and window size for each direction of data transfer. The data window size and the maximum packet size is negotiated automatically during an X.25 data call. (T)

<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd) (C)

4. <u>SINGLE LINE ISDN SERVICE</u> (cont'd) (T)

    A. <u>STANDARD FEATURES AND FUNCTIONS</u> (cont'd) (T)
    (D)
    (D)

        3. <u>DATA (D-Channel)</u> (cont'd) (C)

            b. *X.25 Logical Channels -* Virtual circuits rather than physical circuits are used to establish packet switch calls. When a virtual circuit is established, a logical channel is assigned at the CPE and the switch for the duration of the call. A virtual circuit does not use any capacity of the facility unless data is actually being transferred. Two logical channels are provided per Digital Subscriber Loop. (T)

            c. *X.25 Throughput Class Negotiation -* This packet feature permits negotiation on a per-call basis of the throughput class for each direction of data transfer associated with a virtual call. The data terminal can negotiate the throughput class for an X.25 data call. (T)

    B. <u>OPTIONAL FEATURES AND FUNCTIONS</u>

        1. <u>VOICE</u>: (T)

            a. Additional Directory Number (T)

                An Additional Directory Number is any directory number that has not been previously assigned to a terminal.

            b. Analog Call Appearance (T)

                Analog Call Appearance is the existence of a PDN from a Digital Subscriber Loop terminal appearing on an analog line. (C)

            c. Call Pickup (T)

                This feature allows a user to answer a call at another station, even when the user's station does not have a call appearance for the called Directory Number. While the other station is ringing, the user goes off-hook and enters a call pickup code or presses a call pickup feature button to answer the call.

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<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd)   (C)

4.   <u>SINGLE LINE ISDN SERVICE</u> (cont'd)   (T)

    B.   <u>OPTIONAL FEATURES AND FUNCTIONS</u> (cont'd)   (T)

        1.   <u>VOICE</u> (cont'd):   (C)

            d.   Caller Identification Blocking - All Calls   (T)

                    This feature provides a permanent private indicator on a per-station basis. Once
                    the blocking is established on the station, the private status can be deactivated by
                    the customer on a per call basis. Rates and charges are provided herein. Stations
                    that share appearances of a restricted station are also restricted to avoid passing
                    caller identification information.

            e.   CLASS Features   (T)

            1.   Selective Call Acceptance   (T)

                    This feature allows a customer to specify a special list of a maximum of 12
                    telephone numbers. When active, incoming calls placed to the customer from
                    telephone numbers on that list will automatically be accepted. All other calls
                    will be rejected.

            2.   Selective Call Forwarding   (T)

                    This feature allows a customer to specify a special list of a maximum of 12
                    telephone numbers. When active, incoming calls placed to the customer from
                    telephone numbers on that list will automatically be forwarded to a predefined
                    telephone number. All other calls will be handled normally.

            3.   Selective Call Rejection   (T)

                    This feature allows a customer to specify a special list of a maximum of 12
                    telephone numbers. When active, any call attempts to the customer from these
                    numbers will be prevented from terminating to the customer and will instead be
                    connected to an announcement informing the caller that the call is not presently
                    being accepted by the called party.

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<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd) (C)

4.   <u>SINGLE LINE ISDN SERVICE</u> (cont'd) (T)

    B.   <u>OPTIONAL FEATURES AND FUNCTIONS</u> (cont'd) (T)

       1.   <u>VOICE</u> (cont'd): (C)

          f.   Conference 6 (T)

             This feature allows a user to establish a six-way conference. Group Intercom

             This feature allows the user to establish a dedicated call to any other station that is a member of the same intercom group within the same central office. This is done by pressing the intercom key and dialing one or more digits. Special alerting, depending on CPE, is provided for an incoming intercom call.

          g.   Intercom (T)

             This feature allows the user to establish a dedicated call to one other station within the same central office. This is done by pressing the intercom button. Special alerting, depending on CPE is provided for an incoming intercom call.

          h.   Ringing Options (T)

             Ringing options allow ISDN station users to establish flexible call handling arrangements for answering incoming calls that terminate on shared directory numbers. The ringing options available on a per-station basis for shared directory numbers are as follows:

             1.   Abbreviated Ringing (T)

                Ringing assigned to begin immediately for an incoming call and to stop ringing after "N" seconds.

             2.   Delayed Ringing (T)

                Ringing assigned for an incoming call to be delayed for "N" seconds, however, the call appearance indicator or "status" lamp begins flashing immediately.

             3.   No Ringing (M)

                This option can be assigned for a user who desires no ringing for an incoming call that terminates on a shared directory number. (M)

<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd)   (C)

4.   <u>SINGLE LINE ISDN SERVICE</u> (cont'd)   (T)

   B.   <u>OPTIONAL FEATURES AND FUNCTIONS</u> (cont'd)   (T)

      1.   <u>VOICE</u> (cont'd):   (C)
                                                                           (D)
                                                                            |
                                                                           (D)

         i.   Speed Calling 30   (T)

                 This feature permits the user to dial pre-programmed numbers using fewer digits than normally required. It allows the customer to change speed calling lists directly from their terminal.

         j.   Visual Message Waiting Indicator   (T)

                 This feature is available on PDN's and notifies the user of a message waiting by lighting a lamp on the customer's phone. Messages may be retrieved by calling the message service center or by accessing a voice mail system. The feature is dependent on the serving ISDN equipped central office and the customer's equipment.

      2.   <u>D-Channel Packet-Switched Data Features X.25 Fast Select Acceptance</u>

              This packet feature authorizes incoming packets from sending data terminal equipment (DTE) to be transmitted to the destination DTE with Fast Select. Fast Select is a function of the CPE and is used on a per-call basis allowing the user to send up to 128 octets in the user data field of the call request packet to a terminal with Fast Select Acceptance.

         a.   X.25 Reverse Charging   (T)

                 This packet feature allows a user to assign billing to the called data telephone number on a per-call basis.

         b.   X.25 Reverse Charging Acceptance   (T)

                 This packet feature authorized transmission of incoming calls identified as Reverse Charge calls.

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<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd)   (C)

4.   <u>SINGLE LINE ISDN SERVICE</u> (cont'd)   (T)

    C.   <u>RATES AND CHARGES</u>

        1.   <u>Standard Package Description</u>

The standard package includes a total of six call appearances, per terminal. The six call appearances will include one Primary Directory Number and five call appearances made up of the following:

-       Maximum of four Additional Functional Call appearances of the Primary Directory Number (same number)
-       Maximum of one Analog Call Appearance
-       Maximum of five Shared Directory Numbers

Additional Directory Numbers or additional Shared Directory Numbers are available at rates and charges specified in Optional Features and Functions.

        2.   <u>Standard Charges</u>

Following are the monthly rate and nonrecurring charges for Single Line ISDN Service. These rates and charges apply in addition to applicable rates and charges for other services as provided in this and other Company's tariffs.

Single Line ISDN Service Basic Rate Access includes a usage allowance of up to 40 hours per month of aggregate usage for circuit-switched voice and circuit-switched data. Single Line ISDN Service Premium Rate Access includes a usage allowance of up to 200 hours per month of aggregate usage for circuit-switched voice and circuit-switched data. Additional usage in excess of the 40 (Basic), or 200 (Premium) hours in a monthly billing period, will incur measured usage charges as specified in e. below.

	Nonrecurring	Monthly	
Basic Rate Access –			(C)
Including Standard Features and Functions			|
			|
a. Residence	[1]	$35.00	|
b. Business	[1]	$40.00	(C)

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<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd)   (C)

4.   <u>SINGLE LINE ISDN SERVICE</u> (cont'd)   (T)

   C.   <u>RATES AND CHARGES</u> (cont'd)   (T)

      2.   <u>Standard Charges</u> (cont'd)   (C)

		Nonrecurring	Monthly	
Premium Rate Access -				(C)
Including Standard Features and Functions				|
c.	Residence	[1]	$55.00	|
d.	Business	[1]	$60.00	|
				(C)
e.	Usage Charges			
	Per Minute on Originating Calls	N/A	$.01	
f.	Optional Features and Functions			
	Additional Directory Number, per DN	$15.00	$7.50	
	Analog Call Appearance, per number	[1]	[3]	
	Call Pickup, per number	[1]	N/A	
	Caller Identification Blocking-All Calls,	[2]		
	per digital subscriber loop	$15.00	N/A	
	CLASS Features			
	Selective Call Acceptance	[1]	$3.00	
	Selective Call Forwarding, per PDN	[1]	$3.00	(T)
	Selective Call Rejection	[1]	$3.00	(M)

INTEGRATED SERVICES DIGITAL NETWORK (cont'd)   (C)

4.   SINGLE LINE ISDN SERVICE (cont'd)   (T)

        C.   RATES AND CHARGES (cont'd)   (T)

	Nonrecurring	Monthly	
			(D)
Conference 6	[1]	$3.00	
Group Intercom	[1]	$2.00	
Intercom	[1]	$2.00	
Ringing Options	[1]	N/A	
Abbreviated Ringing	[1]	N/A	
Delayed Ringing	[1]	N/A	
No Ringing	[1]	N/A	
Shared Directory Number [4]	[1]	$1.00	(T)
Speed Calling 30, per terminal	[1]	$2.00	(T)
Visual Message Waiting Indicator	[1]	N/A	
X.25 Fast Select Acceptance, per number	[1]	N/A	(T)
X.25 Reverse Charge, per number	[1]	N/A	(M)
X.25 Reverse Charge Acceptance, per number	[1]	N/A	(M)

INTEGRATED SERVICES DIGITAL NETWORK (cont'd)   (C)

4.   SINGLE LINE ISDN SERVICE (cont'd)   (T)

    C.   RATES AND CHARGES (cont'd)   (T)
                                                                         (D)
                                                                          |
                                                                         (D)

        [1]   See Schedule 14. Non-Recurring Charges (2 Line Connections apply for Standard Service).

    Note: On an initial installation of ISDN-BRI, the Standard Service Package and any   (T)
    number of optional features will be installed for the Standard Service Package
    nonrecurring charge only, with the following exception: Optional features with
    nonrecurring charges of more than $10.00 are not included in this offer.

        [2]   Initial installation of Caller ID Blocking is at no charge to the customer. Subsequent orders for this feature, on the same line, will be at the non-recurring rates from Schedule 14.

        [3]   Each Analog Call Appearance will be charged the appropriate line rate from the tariff.

        [4]   Five Shared Directory Numbers are allowed with the standard package.

    3.   D - Channel Packet Usage Charges

    Packet transport provides for the routing of data through the Public Packet Switching
    Network (PPSN) in both the originating and terminating directions. Usage charges are
    billed monthly based on the number of kilo-segments transmitted through the PPSN for   (T)
    all types of access, and is rated on a per kilo-segment basis. A segment consists of 64   (T)
    octets of customer data. For example, a packet of 128 octets will be billed as two
    segments.

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INTEGRATED SERVICES DIGITAL NETWORK (cont'd)   (C)

4.   SINGLE LINE ISDN SERVICE (cont'd)   (T)

          C.   RATES AND CHARGES (cont'd)   (T)

          The D-Channel Packet usage rate provides a rate for day usage (6:00 a.m. - 6:00 p.m.) and a lower
          rate for night usage (after 6:00 p.m. and before 6:00 a.m.). The rate period in effect at the time the
          packet segment originated will apply.

          Packet transport usage will be rounded up to the next whole kilo-segment for each rate element   (T)
          within the billing period. Day and night usage will not be combined. A call overlapping from "Day
          Usage" to "Night Usage" or vice versa will be billed at the appropriate rate for the time period.

                                                                         RATE
          *   Usage, per kilo-segment or fraction thereof $0.13   (T)

          *   Day rate $0.13

          *   Night rate $0.10

          *   Protocol conversion, per kilo-segment or fraction thereof $0.30   (T)

          A Transaction Initiation charge is defined as any action taken that leads to a call acceptance by the
          called party. A Transaction Initiation Charge will apply for each originating or terminating call
          connected to a network address. This charge does not apply for unsuccessful call attempts.

                                                                         RATE PER
                                                                         CALL
          Transaction Initiation Charges, per call
          For the first 250,000 calls $0.0025
          For calls in excess of the first 250.000 calls $0.0010

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<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd)   (C)

5.   <u>PRIMARY RATE INTERFACE (PRI)</u>   (C)

     A.   <u>DESCRIPTION</u>   (T)

     The basic Primary Rate Interface (PRI) structure consists of 23 B-channels and a D-channel, for a   (C)
total transmission rate of 1.544 Mbps, which is equivalent to a T1 facility. Each 64 Kbps B-   (T)
channel carries user information such as voice calls, circuit-switched data, or video. The D- |
channel is a 64 Kbps channel that is used to carry the control or signaling information.   (T)

     B.   <u>DEFINITIONS</u>

          1.   <u>Service Configurations</u>

               a.   <u>23B+D</u>   (T)

               This service configuration provides for 23 B-channels and 1 D-channel. The B-channels carry the circuit-switched voice and data, while the D-channel handles signaling information. The D-channel can control a maximum of 479 B-channels. The B-channels may be provisioned on the same facility as the D-channel or on other TI facilities.

               b.   <u>24B</u>   (T)

               This service configuration provides for 24 B-channels. The B-channels carry the circuit-switched voice and data information. The signaling information is provided by a D-channel on the first T1 facility.   (T)

               c.   <u>23B+Back-up D</u>   (T)

               This service configuration provides for 23 B-channels and a backup D-channel. The Back-up D-channel is used if the primary D-channel, which provides signaling for multiple TI facilities, fails. All active calls arc maintained during the switch-over to the back-up D-channel.

<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd)   (C)

5.   <u>PRIMARY RATE INTERFACE (PRI)</u> (cont'd)   (C)

     B.   <u>DEFINITIONS</u> (cont'd)   (T)

          2.   <u>Service Types</u>

              a.   Call-By-Call PRI - Allows the customer to configure the PRI B-channels to support   (T)
inward and outward call flexibility determined by the traffic flow.

              b.   Dedicated PRI - Each B-channel is dedicated to inward, outward or 2-way traffic.   (T)

          3.   <u>Usage</u>

An ISDN Trunk Connection (TC) is a central office translation that provisions each B-   (T)
channel in a PRI. The TC allows access to the exchange network. One ISDN Trunk |
Connection is required for each B-channel used in a PRI.   (T)

          4.   <u>Standard Features</u>   (T)

              a.   Calling Number Identification   (T)

This feature displays the call identification information and the calling party's   (T)
directory number (including non-published and non-listed directory numbers) prior
to the call being answered. Callers have the ability to inhibit the display of calling
party information to the terminating number.

              b.   Calling Number Identification Blocking-All Calls   (T)

All outgoing calls will be blocked for PRI customers where technically feasible as   (T)
determined by the Company.

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<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd)   (C)

5.   <u>PRIMARY RATE INTERFACE (PRI)</u> (cont'd)   (C)

        B.   <u>DEFINITIONS</u> (cont'd)   (T)

                4.   <u>Standard Features</u>   (C)

                        c.   <u>Circuit-Switched Data</u>   (T)

                        Circuit-Switched Data provides the capability of making data calls over the public switched network. Information is transmitted the same way as digitized voice. Like a voice call, a circuit-switched data call tics up network/system resources for the duration of the call.   (T)

                        d.   <u>Direct Inward/Outward Dialing</u>   (T)

                        Allows station users to place or receive calls bypassing the attendant

        C.   <u>TERMS AND CONDITIONS</u>

                1.   PRI is provided subject to the availability of central office facilities.   (T)

                2.   Each PRI consists of one TI facility and one Service Configuration. A customer may request more than one PRI per premises.   (T) (T)

                3.   Terms and Conditions, and Rates and Charges, as described for PRI, are in addition to the regular rates and charges for the service with which PRI is associated.   (T) (T)

                4.   Some services are not available and/or compatible with PRI.   (T)

                5.   Loop Diversity and Avoidance defined in the Private Line Telephone Service and Channels, Schedule No. 24, Sheet 138, is available with PRI.   (T)

                        a.   Customers subscribing to Loop Diversity must also subscribe to additional PRI facilities and Trunk Connections for the secondary route.   (T)

                        b.   Customers subscribing to Avoidance must pay DS1 Transport Mileage rates between the local serving office and the alternate serving office.   (T)

INTEGRATED SERVICES DIGITAL NETWORK (cont'd)   (C)

5.   PRIMARY RATE INTERFACE (PRI) (cont'd)   (C)

    C.   TERMS AND CONDITIONS (cont'd)   (T)

       6.   The PRI facility may be provided from a foreign central office or foreign exchange at the   (T)
DS1 Transport Mileage rates. Associated charges will be applied to the PRI facility.   (T)

       7.   PRI offerings are not available for use by Commercial Mobile Radio Carriers, Private   (T)
Mobile Radio Carriers and Interexchange Carriers in the provision of services to their
customers. Other digital services are offered by the Company for interconnection
specifically for these Carriers.

       8.   PRI customers must subscribe to a minimum of one 23B+D Service Configuration   (T)

       9.   A DID Trunk Termination is required for each inward or 2-way B-channel in PRI.   (T)

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INTEGRATED SERVICES DIGITAL NETWORK (cont'd)   (C)

5.   PRIMARY RATE INTERFACE (PRI) (cont'd)   (C)

        D.   RATES AND CHARGES

                ISDN-PRI will be provided at the rates and charges listed below: (T)

			Nonrecurring Charge	Monthly Rate	
1.	Transport				
	Stand alone T1 facility, per 24 channel facility [1]		[2]	[2]	
2.	Service Configuration				(T)
		23B+D	$1,025.00	$400.00	
		24B	$1,025.00	$400.00	
		23B + Back-up D	$1,025.00	$400.00	
3.	ISDN Trunk Connection, per B-Channel				
		Call-By-Call	[2]	[2]	
		Dedicated	[2]	[2]	
		In-ward	[2]	[2]	
		Outward	[2]	[2]	
		2-Way	[2]	[2]	

        [1]   One Service Configuration is required for each T1 facility.
        [2]   Rates and Charges apply for the appropriate Trunks as specified in the Private
                Line Transport Tariff.

        4.   Nonrecurring change charges apply as follows: (M)
                • All miscellaneous changes or rearrangements $ 50.00
                  facilities, per facility

        5.   Term Discount – Customers that subscribe to Primary Rate Service may receive a term
                discount by committing to maintaining the service for a specified period of time. The
                discount shall be to the monthly rate as specified in Section 2, above. The discount is
                five percent for a one year term, ten percent for a three year term and twenty percent for a
                five year term. Customers accepting a term commitment will be subject to an early
                termination fee. The early termination fee will be equal to the amount of the discount
                that the customer received up to the time of disconnection.   (M)

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<u>INTEGRATED SERVICES DIGITAL NETWORK</u> (cont'd)   (C)

5.   <u>PRIMARY RATE INTERFACE (PRI)</u> (cont'd)   (C)

        E.   <u>ISDN-PRI BUNDLE</u>   (N)

                1.   All regulations applicable to ISDN Primary Rate Service as specified in Schedule 16 of
                        this Tariff apply to the ISDN-PRI Bundle except as specified in this section below:

                        a.   Includes unlimited local calling, the ISDN primary port, local distribution channel
                                (LDC), Caller ID with Name and 1 DID block of 100 numbers (or fraction thereof).
                                This bundle is provided under month-to-month, 1, 2 or 3 year terms. Term
                                bundles have a one year minimum requirement. The bundle rates do not include
                                the EUCL, surcharges or taxes.

                        b.   ISDN-PRI Bundle is not available with Foreign Exchange service, virtual private
                                network services and is not available with services provided under special
                                contract.

                        c.   Bundle rates are not eligible for additional term discount as described in
                                Schedule 16, 5.D.5.

                        d.   Additional 100 blocks of DID numbers (or fraction thereof) and single DID
                                telephone numbers, which may or may not be contiguous based on availability,
                                are available for an additional monthly recurring charge for customers who have
                                purchased the ISDN-PRI Bundle for 1, 2 or 3 year terms. The term of the
                                additional DID numbers is coterminous with the term of the ISDN-PRI Bundle.

                        e.   Conversion - Any existing ISDN-PRI customer may convert to ISDN-PRI
                                Bundle. However, this will be considered a downgrade and termination charges
                                will apply to the existing service agreement.

                        f.   Termination for the ISDN-PRI Bundle is as follows:
                                        - Number of months in remaining (rounded down) x $20 (1 year term)
                                        - Number of months in remaining (rounded down) x $40 (2 year term)
                                        - Number of months in remaining (rounded down) x $60 (3 year term)
                                Additionally: If customer doesn't fulfill one year minimum requirement, the
                                NRC will be re-rated to the MTM NRC totaling $900.   (N)

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INTEGRATED SERVICES DIGITAL NETWORK (cont'd)   (N)

5.   PRIMARY RATE INTERFACE (PRI) (cont'd)

   E.   ISDN-PRI BUNDLE (cont'd)

      2.   ISDN-PRI Bundle Monthly Rates and Charges–Residential and Business

		Nonrecurring Charge	Monthly Rate
a.	Primary Rate Interface, with 1 D-channel		
	• Month-to-Month Rate	$ 900.00	$ 600.00
	• One (1) Year Term	$ 200.00	$ 400.00
	• Two (2) Year Term	$ 200.00	$ 365.00
	• Three (3) Year Term	$ 200.00	$ 355.00

Includes:
ISDN- PRI Port, Caller ID with Name,
DID block, 100-numbers (or fraction
thereof), and unlimited local calling

   b.   FCC End User Common Line Charges, as set forth in the NECA's Access Services
           Tariff, apply as appropriate and shall be interpreted to apply per PRI

   c.   Custom configurations will be priced on a case-by-case basis.   (N)

6.   INDIVIDUAL CASE ISDN   (M)

   A.   GENERAL

   1.   Customers requiring ISDN features not offered by the Tariff will be considered on an individual case
        basis. Customers who want to migrate to Single Line ISDN Service or Primary Rate Service can do so
        without any penalties. However, this will result in changes to the existing service based on different
        technical standards and features.

   2.   Network Access Registers are required to provide connections with other switching arrangements and
        the exchange and toll network, and are subject to charges.

   3.   The contract period offered will be negotiable between the Company and the customer.   (M)