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September 17, 2007

Via Federal Express

Ms. Reneé J. Jenkins  
Director of Administration  
Secretary of the Public Utilities Commission of Ohio  
180 East Broad Street  
Columbus, Ohio 43215

RE: Application for the Telephone Service Company, Inc. to "Grandfather" ISDN-BRI  
Service: PUCO Case No. 07-1024-TP-ZTA

Dear Ms. Jenkins:

Enclosed are the original and three (3) copies of the final tariff sheets to be filed on behalf of The Telephone Service Company. The TRF Number for The Telephone Service Company is 90-5039-TP-TRF.

Please return a time-stamped copy in the self-addressed return envelope. Thank you for your assistance. If you have any questions, please do not hesitate to call.

Sincerely,

Kimberly C. Klingler  
Regulatory

Enclosures

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Tariff

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Wapakoneta, Ohio

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Expanded Service Area

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**ADVANCED DIGITAL SERVICES  
BASIC RATE INTERFACE (BRI)**

**A. GENERAL DESCRIPTION**

Effective September 18, 2007, ISDN-BRI service will be no longer offered to new customers. The service offering will be "grandfathered", i.e., continued to be made available to those customers already receiving the service. Please contact the Customer Service department to discuss alternative forms of service.

(N)  
|  
(N)

1. Advanced Digital Services 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 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 Interface (BRI) line to customers' premises.
2. Advanced Digital Services BRI is an optional service arrangement that can be used in conjunction with a customer's single residential service, individual business line or Centrex service. It uses the ISDN architecture to provide the customer with the various optional arrangements, BRI provides the customer with access to Circuit-Switched Voice Services, Circuit-Switched Data Services, and Packet-Switched Data Services.
3. An Advanced Digital Services BRI arrangement obtains its capabilities from an ISDN-capable, Telephone Company central office switch. The BRI 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 BRI ISDN line is known as 2B+D.
  - a. **B Channel** - The B Channel is a bi-directional synchronous channel capable of supporting digital transmission speeds of 4 kilobits per second (kbps). Each B Channel may be configured in one of the following ways:
    - (1) **Circuit-Switched Voice** - Allows the user to originate and receive only voice calls over a single circuit-switched B Channel.

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**B. CIRCUIT SWITCHING SERVICE DESCRIPTIONS**

Effective September 18, 2007, ISDN-BRI service will be no longer offered to new customers. The service offering will be "grandfathered", i.e., continued to be made available to those customers already receiving the service. Please contact the Customer Service department to discuss alternative forms of service.

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 64 kbps B Channel. The customer may choose among the following Circuit-Switched features based upon application needs:

1. **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 128 kbps.
2. **Additional Call Offering** – This feature allows the user to be notified of an additional call when the telephone set is busy. Similar to conventional Call Waiting, multiple incoming calls to a directory number or secondary telephone number (if purchased) can be terminated to the telephone.
3. **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 Advanced Digital Services directory number on the same (or a different) B Channel or (for voice calls) an analog line. The hunting arrangement may be series completion, linear or circular.
4. **Call Pick-up**- The features allows the user to dial a special code (or depress a feature button) to answer calls directed to other stations.
5. **Customer Calling Services** – Applicable Custom Calling Service (except for those superseded by Advanced Digital Services counterparts) are available at rates and charges specified in the Custom Calling Services section on the Company's tariff. The following Custom Calling features found specifically in this tariff will be charged at rates shown on the Advance Digital Services Rate Schedule:
  - a. **Call Hold** – This feature allows the user to place a call on hold by pressing the appropriate button on the telephone set.

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**C. PACKET-SWITCHED DATA SERVICE DESCRIPTIONS**

Effective September 18, 2007, ISND-BRI service will be no longer offered to new customers. The service offering will be "grandfathered", i.e., continued to be made available to those customers already receiving the service. Please contact the Customer Service department to discuss alternative forms of service.

Packet Switching is a technique in which packets of data are individually addressed and combined on a transmission path with other addressed packets. Packet-Switched Data Service provided 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 64 kbps per logical channel.

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

1. **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 logical channel to which to complete the call. The hunting arrangement may be series completion, linear, or circular.
2. **X.25 Data Services:**
  - a. **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.
  - b. **DTE Support Feature** – The Data Terminal Equipment Support (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.

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- d. **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.
- e. **Unrestricted Access** – The data terminal receives and make incoming and outgoing call

**D. TECHNICAL SPECIFICATIONS**

Effective September 18, 2007, ISDN-BRI service will be no longer offered to new customers. The service offering will be "grandfathered", i.e., continued to be made available to those customers already receiving the service. Please contact the Customer Service department to discuss alternative forms of service.

(N)

**1. Transmission Specifications**

(N)

The standard transmission parameters for an Advanced Digital Services line utilizing an ISDN Basic Rate Interface (BRI) consists of: A maximum of 38.5db loop loss at a 40 Kz test tone terminated into a 135 ohm impedance. The 38.5db loss includes all central office facilities, outside plant facilities and inside wiring.

**2. Customer Premise Equipment and Facilities**

Compatible customer premise equipment is required to utilize Advanced Digital Services. All equipment used to interface 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>
SR-NWT-002661	National ISDN Generic Guidelines for ISDN Terminal Equipment on Basic Rate Interface
SR-NWT-001953	Generic Guidelines for ISDN Terminal Equipment on Basic Access Interfaces

The Telephone Company shall not be responsible if changes in any of the equipment, operations, or procedures of the Company utilized in the provisioning of Advanced Digital Services 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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**E. REGULATIONS AND CONDITIONS**

Effective September 18, 2007, ISND-BRI service will be no longer offered to new customers. The service offering will be "grandfathered", i.e., continued to be made available to those customers already receiving the service. Please contact the Customer Service department to discuss alternative forms of service.

1. Unless specifically exempted, Advanced Digital Services shall be subject to all general regulations applicable to the provision of service by the Telephone Company as stated in the general tariff.
2. Advanced Digital Services are provided at the option of the Company. These services are furnished subject to central office switching capacity, capability, and the availability of outside plant facilities.
3. **Payment for Service**
  - a. The minimum charge period for services provided under this tariff is for one month.
  - b. The customer may choose to pay for the service on a month-to-month basis or under a term service establishment plan. A month-to-month customer may, at any time, convert to a service establishment plan.
  - c. The monthly rate for customers choosing the service establishment plan is guaranteed against Telephone Company initiated changes during the selected service period.
  - d. Subsequent additions will be rated under a new service establishment plan or added to an existing service establishment plan, based upon the remaining period of the initial service establishment plan.
  - e. Suspension of service (e.g. Vacation Rate) is not allowed.
  - f. **Service Establishment Renewals and Termination Liabilities**
    - (1) At any time during their service establishment plan period customers may change to a new Advanced Digital Services service establishment plan, provided that the new service establishment plan is for a term equal to or greater than the time period remaining on their current service establishment plan. The new service establishment plan becomes effective upon execution.

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**F. RATES AND CHARGES**

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(N)

(N)

**1. Advanced Digital Services Access**

- a. The rates and charges below are for providing an Advanced Digital Services capable line to the customer's premises. These charges provided 0B +0D ISDN service. The customer must add the desired B Channels and D Channels to configure the service as required.

<u>Access</u>	<u>Service Establishment Reference P.U.C.O. Tariff No. 5:</u>	<u>Monthly Rate Reference P.U.C.O. Tariff No. 5:</u>
Residential Single Line Advanced Digital Services	Section 4, Sheet No. 7	Section 4, Sheets 1 & 4
Single Line Business Advanced Digital Services	Section 4 Sheet No. 7	Section 4 Sheets 1 & 4
Centrex Advanced Digital Services	Section 4, Sheet No. 7	Section 2B, Sheet No. 8

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