QUINCY TELEPHONE COMPANY d/b/a TDS TELECOM

Section 10

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INTEGRATED SERVICES DIGITAL NETWORK

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INTEGRATED SERVICES DIGITAL NETWORK

1. BASIC RATE INTERFACE (BRI)(1)

(N)

A. GENERAL

- Integrated Services Digital Network (ISDN) describes the end-to-end digital telecommunications network architecture which provides for the simultaneous access, transmission and switching of voice, data, and video services. These functions are provided via channelized transport facilities. The ISDN architecture consists of digital switching systems which connect Basic Rate Interface (BRI) lines to their serving central office. Caller ID Number is included with this service.
- 2. BRI is an optional service arrangement which can be used in conjunction with a customer's Individual Line Business or Residence service. It uses the ISDN architecture to provide the customer with the capabilities of simultaneous access, transmission, and switching of voice, data, and video services via channelized transport. In addition, BRI provides the customer with access to Circuit Switched Voice Service, Circuit Switched Data Service, and Packet Switched Data Service.
- 3. A BRI arrangement obtains its capabilities from a properly equipped telephone company central office switch. The BRI arrangement may consist of up to two "B" channels and one "D" channel (2B+D).
 - a. "B" Channel: The "B" Channel is a bi-directional synchronous channel capable of supporting 64 kilobit per second (kbps) of digital transmission of information between users. The "B" Channel be configured to offer voice service, data service or voice/data service.

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BY: Joel Dohmeier, President

(N)

Basic Rate Interface (BRI) Service will be grandfathered to existing customers effective 8/8/13. The service will not be available to new customers after this date.

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INTEGRATED SERVICES DIGITAL NETWORK

1.A. BASIC RATE INTERFACE - GENERAL (Continued)

(N)

3. a. B-Channel (Continued)

One Primary Directory Number with one Primary Directory Listing for the first "B" Channel ISDN Service line is provided. Additional listings may be provided as specified for Additional Listing Service in the Directory Listings section of this Company's tariff.

- b. "D" Channel: The "D" Channel is a 16 kbps digital signaling channel that carries signaling and control for the "B" channel and has maximum packet transmission throughput of 9.6 kbps.
- 4. All ISDN Service lines consist of central office facilities, including the outside plant facilities, extended from the Company's switching equipment to the customer's demarcation point.
- 5. ISDN Service is provided at the option of the Company, and is furnished subject to central office switching capacity and the availability of outside plant facilities. The availability, functionality and capabilities of the ISDN Service features may vary, or may not be available dependent upon type of serving central office switch, related software controlling that switch and associated outside plant.
- 6. The Company shall not be responsible if changes in any of the equipment, operations, or procedures of the Company utilized in the provision of ISDN Service render any facilities provided by the customer obsolete or require modification or alteration of such customer's equipment or systems, or otherwise affect its use or performance.

N)

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INTEGRATED SERVICES DIGITAL NETWORK

B. **SERVICE DESCRIPTION**

(N)

 CIRCUIT SWITCHING - Circuit Switching is a switching technique in which an entire circuit or, in a digital switch equipped for ISDN, a specific selection of time slots is dedicated to a given call. Circuit Switched Service provides the ability to originate and receive circuit switched voice, data and voice/data calls over a 64 kbps "B" channel.

The customer may choose among the following Circuit Switched features based upon application needs.

a. Electronic Key Telephone Service (EKTS) Features:

Electronic Key Features provide the customer with the ability to access the following features where available:

(i) Multiple Call Appearances of a Directory Number

An arrangement that allows the user to have appearances of the directory number assigned to the customer-provided set, providing the capability of multiple incoming or outgoing calls associated with that directory number. Multiple incoming calls to this directory number or secondary telephone number (if purchased) can be terminated to the telephone if one or more idle call appearances are available to accept the calls. In certain central offices, this arrangement may impact the use of the Shared Call Appearance feature.

(N)

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INTEGRATED SERVICES DIGITAL NETWORK

1.B. BASIC RATE INTERFACE – SERVICE DESCRIPTION (Continued)

(N)

- 1. CIRCUIT SWITCHING (Continued)
 - a. Electronic Key Telephone Service (EKTS) Features: (Continued)
 - (ii) Shared Call Appearances of a Directory Number An arrangement that allows a directory number(s) from one customer-provided set to appear as a call appearance(s) on the customer-provided sets of other users. Bridging, an arrangement that allows the user to connect onto a currently active call, is included.
 - (iii) Analog Line Pickups

An arrangement that allows an ISDN set to provide coverage for an analog number(s). This arrangement is limited to analog numbers that are terminated in the same central office switch. This feature may limit the use of other features and/or functionality on the analog line. Bridging, an arrangement that allows the analog user to connect onto a currently active call, is included.

(iv) Privacy Release (Automatic Exclusion)

An arrangement that allows a customer to specify that no other user can bridge onto an existing call(s). On a call by call basis, this feature can be disabled to allow bridging to occur.

(N)

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INTEGRATED SERVICES DIGITAL NETWORK

1.B. BASIC RATE INTERFACE – SERVICE DESCRIPTION (Continued

(N)

- 1. CIRCUIT SWITCHING (Continued)
 - a. Electronic Key Telephone Service (EKTS) Features: (Continued)
 - (v) Manual Exclusion (Privacy)

An arrangement (opposite of Privacy Release) that allows the customer to restrict other stations from picking up an existing call on hold or bridging onto an existing call that is active at that station.

- (vi) Intercom Calling An arrangement that allows for ISDN stationto-station calls.
- (vii) Bridging

An arrangement that allows the user to join an active call by pressing the active call appearance button. Bridging is inhibited if Manual Exclusion is activated on the terminal engaged in the active call.

b. Secondary Telephone Numbers

An arrangement that allows a customer-provided set to have access to an additional telephone number(s). The additional telephone number(s), or Secondary Telephone Number(s), may originate or receive calls independent of the customer-provided set's Primary Directory Telephone Number.

(N)

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INTEGRATED SERVICES DIGITAL NETWORK

1.B. BASIC RATE INTERFACE – SERVICE DESCRIPTION (Continued

(N)

- 1. CIRCUIT SWITCHING (Continued)
 - c. Clear Channel Capability

A characteristic of the transmission paths on the "B" channel that allows the full bandwidth on the "B" channel, 64 kbps, to be available to the customer. However, ISDN interconnection to non-ISDN equipped central offices will be potentially subjected to analog transmission or sub-rated to 56 kbps.

d. Custom Calling Services

Available at rates and charges specified elsewhere in the Custom Calling Services section of this tariff. Custom Calling Service features found specifically in this ISDN tariff will be charged for at rates found on the ISDN Rate Schedule.

- e. Call Hold, Drop and Transfer
 - i. Call Hold

Allows the user to place a call on hold by pressing a programmed button on a customer-provided set.

ii. Call Drop

This central office based feature allows the user to disconnect the last party added to a conference call.

(N)

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INTEGRATED SERVICES DIGITAL NETWORK

1.B. BASIC RATE INTERFACE – SERVICE DESCRIPTION (Continued

(N)

- 1. CIRCUIT SWITCHING (Continued)
 - e. Call Hold, Drop and Transfer (Continued)
 - iii. Call Transfer

This feature allows the user to transfer a call to another directory number. This feature is for use with Circuit Switched voice only.

f. Advanced Calling Services - Available at rates and charges specified elsewhere in the Advanced Calling Services section of this tariff. Advanced Calling Service features found specifically in this ISDN tariff will be charged for at rates found on the ISDN Rate Schedule.

Caller Identification - Number

An Advanced Calling Service feature that provides the caller's telephone number to be displayed on properly equipped customer-provided equipment.

(N)

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INTEGRATED SERVICES DIGITAL NETWORK

1.B. BASIC RATE INTERFACE – SERVICE DESCRIPTION (Continued

(N)

2. ALTERNATE CIRCUIT SWITCHED VOICE SERVICE/CIRCUIT SWITCHED DATA SERVICE -Alternate Circuit Switched Voice Service/Circuit Switched Data Service provides the ability to originate and receive either Circuit Switched Voice calls or Circuit Switched Data calls over a single "B" channel but not simultaneously. This arrangement is available where technology permits. The features applicable to Circuit Switching Service are also applicable to this service.

C. INTRASWITCH PACKET SWITCHED DATA "D" CHANNEL 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 "D" Channel Service provides the ability to originate and receive X.25 packet data calls on an intraswitch basis. This arrangement provides a maximum throughput of 9.6 kbps. Each "D" channel packet terminal will provide logical channel up to the technical capabilities of the serving central office. Multiple packet calls can be active simultaneously by a user on a single "D" channel. Up to eight data terminals can be supported per Basic Rate Interface. Service includes one data telephone number.

1. Flow Control Parameter Negotiation - An arrangement that permits negotiation on per call basis of the flow control parameters. This feature automatically negotiates the maximum packet size and window size for each direction of data transmission. This can be presubscribed (fixed) or it can be established on a per call basis.

(N)

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INTEGRATED SERVICES DIGITAL NETWORK

1.C. BRI - INTRASWITCH PACKET SWITCHED DATA "D" CHANNEL SERVICE (Continued)

(N)

- 2. Throughput Class Negotiation An arrangement that allows the calling data terminal to request specific throughput classes (bits/second) in the call request packet for both directions of data transmission.
- 3. Logical Channels An arrangement that is a virtual circuit, offering multiple logical connections at the packet level of X.25. ISDN packet data service offers the ability to send and/or receive packet data calls on separate logical channels within one ISDN "D" channel. The logical channels can be assigned as permanent virtual circuits, incoming only, outgoing only, or two-way (incoming and outgoing).
- 4. Incoming Calls Barred An arrangement that prohibits a data terminal from terminating an incoming call.
- 5. Outgoing Calls Barred An arrangement that prohibits a data terminal from originating outgoing calls.
- 6. Closed User Groups An arrangement that allows ISDN users to establish subnetworks of ISDN packet switching data users from which members can communicate with each other. The Closed User Group is established on a per line basis. The first member of a Closed User Group is included. Additional members are charged at the rate established in the rate schedule. Each data terminal in a Closed User Group can be arranged in one of the following modes:
 - (a) Closed User Group with Outgoing Access

The data terminal makes outgoing calls only.

(N)

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INTEGRATED SERVICES DIGITAL NETWORK

1.C. BRI - INTRASWITCH PACKET SWITCHED DATA "D" CHANNEL SERVICE (Continued)

(N)

- 6. Closed User Groups -
 - (b) Closed User Group with Incoming Access The data terminal receives incoming calls only.
 - (c) 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.
 - (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 makes both incoming and outgoing calls.
- 7. 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.
- 8. 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.

D. TRANSMISSION SPECIFICATIONS

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

(N)

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INTEGRATED SERVICES DIGITAL NETWORK

E. CUSTOMER PREMISE EQUIPMENT AND FACILITIES:

(N)

The customer is responsible for providing compatible premises equipment in order to utilize the ISDN offering. All customer-provided equipment used to interface with ISDN Service is required to conform with the Technical Reference Specification as used by the Company and is found in the following Technical References:

Voice Contact

<u>Subject</u>

Basic Rate Interface

Customer Premises Planning Guide

Technical Reference
AT&T 235-900-341

AT&T 533-700-100

Voice Contact

Available
1-800-432-6600

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

F. SPECIAL CONSTRUCTION

Please refer to Section A5 of this tariff

An average amount of entrance and distribution facilities may be furnished by the Company provided the facilities are of the standard type normally furnished for the particular location or kind of service.

If additional entrance or distribution facilities are required; if the conditions are such as to require special equipment; if the installation is for temporary or semi-permanent purpose or if for any other reason the construction costs are excessive, the applicant shall be required to pay the costs over and above those applicable for a normal installation. Each special construction situation will be evaluated on an individual case basis.

N)

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INTEGRATED SERVICES DIGITAL NETWORK

BASIC RATE INTERFACE (BRI)⁽¹⁾ RATES AND CHARGES

| INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE BASIC RATE INTERFACE ISDN-BRI RATE SCHEDULE | | | | |
|--|-----------------------------------|---------------------------|--|--|
| ISDN Service | Monthly Rate | Non-Recurring Charges | | |
| ISDN LINE, PER LINE | | | | |
| Residence | Residential One-Party Rate | See Service Connection | | |
| Business | Business One-Party Rate | See Service Connection | | |
| CIRCUIT SWITCHED VOICE SERVICE, PER "B" CHANNEL | | | | |
| (BUSINESS AND RESIDENCE) | \$15.00 | See Service Connection | | |
| CIRCUIT SWITCHED DATA SERVICE, PER "B" CHANNEL | | | | |
| (BUSINESS AND RESIDENCE) | \$15.00 | See Service Connection | | |
| ALTERNATE CIRCUIT SWITCHED VOICE/CIRCUIT | | | | |
| SWITCHED DATA, PER "B" CHANNEL | | | | |
| (BUSINESS AND RESIDENCE) | \$15.00 | See Service Connection | | |
| CIRCUIT SWITCHED FEATURES: (BUSINESS AND RESIDENCE) | | | | |
| Electronic Key Telephone Service (EKTS): | | | | |
| Multiple Call Appearances of a Directory Number (up to 3) | Included w/CSV, CSD | None | | |
| Fourth/Subsequent Call Appearances of a Directory Number | \$2.00 p/Call Appearance | None | | |
| Shared Call Appearances | \$1.00 p/Shared Call Appearance | None | | |
| 3. Analog Line Pickups | \$1.00 p/First Analog Set | None | | |
| Privacy Release (Automatic Exclusion) | Included with CSV | None | | |
| 5. Manual Exclusion (Privacy) | Included with CSV | None | | |
| 6. Intercom Calling | \$1.50 p/Each Member | None | | |
| 7. Bridging | Included with CSV | None | | |
| 7. Bridging | included with 65V | None | | |
| Primary Directory Number | Included w/CSV, CSD | None | | |
| Secondary Telephone Numbers | \$2.00 p/Telephone Number | None | | |
| Clear Channel Capability | Included w/CSD | None | | |
| | | | | |
| Custom Calling Services | Custom Calling Svc (CCS) Tariff | None | | |
| Call Hold, Drop and Transfer | Included w/CSV | None | | |
| | | | | |
| Advanced Calling Services | Advanced Calling Svc (ACS) Tariff | None | | |
| Caller Identification - Basic (where available) | Included w/CSV, CSD | None | | |
| Caller Identification - Deluxe (where available) | 50% of ACS Tariffed Rate | None | | |
| NTRASWITCH PACKET SWITCHED DATA, PER "D" CHANNEL | | | | |
| (BUSINESS AND RESIDENCE) | \$10.00 | See Service Connection | | |
| PACKET SWITCHED DATA FEATURES: (BUSINESS AND RESIDENCE) | ****** | | | |
| Flow Control Parameter Negotiation | Inc w/Packet Data "D" Channel | None | | |
| Throughput Class Negotiation | Inc w/Packet Data "D" Channel | None | | |
| Logical Channels | Inc w/Packet Data "D" Channel | None | | |
| Incoming Calls Barred | Inc w/Packet Data "D" Channel | None | | |
| Outgoing Calls Barred | Inc w/Packet Data "D" Channel | None | | |
| 6. Closed User Groups (CUG): | Inc w/Packet Data "D" Channel | \$25.00 p/CUG initial set | | |
| a. Per CUG | IIIC W/I acket Data D Chaille | | | |
| b. Per Member in CUG | | up \$1.00 Add'l Member | | |
| | Ino w/Docket Data "D" Changel | | | |
| 7. Fast Select | Inc w/Packet Data "D" Channel | None | | |
| Fast Select Acceptance | Inc w/Packet Data "D" Channel | None | | |

SERVICE CONNECTION CHARGES apply for ISDN-BRI Service based upon existing Service Connection charges. See Service Connection Section of this tariff.

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BY: Joel Dohmeier, President

(N)

(N)

Basic Rate Interface (BRI) Service will be grandfathered to existing customers effective 8/8/13. The service will not be available to new customers after this date.

QUINCY TELEPHONE COMPANY d/b/a TDS TELECOM Florida

Section 10

Original Sheet 13

INTEGRATED SERVICES DIGITAL NETWORK

2. PRIMARY RATE INTERFACE (PRI)(1)

(N)

A. GENERAL DESCRIPTION

- Integrated Services Digital Network (ISDN) is a public network-based set of communications services that make it possible to send, receive, and modify information using regular telephone facilities. ISDN provides end-to-end digital communications and gives the ability to transmit data and voice over the same telephone line simultaneously. This functionality is provided via channelized transport facilities. The ISDN architecture provides for Primary Rate Interface (PRI) which is typically used when a customer wants to connect large quantities of digital lines to the network.
- ISDN-PRI 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, PRI provides the customer with access to Circuit-Switched Voice Services and Circuit-Switched Data Services.

B. PRIMARY RATE INTERFACE (PRI) SERVICE ARRANGEMENT

- 1. An ISDN-PRI arrangement connects an ISDN-capable Telephone Company central office switch to ISDN-capable customer premise equipment (CPE). Depending on the application, that CPE might be a PBX, a router, a multiplexer, etc. The PRI ISDN arrangement provides a total of twenty-four digital communications channels within a single physical facility. Twenty-three of these channels are called Bearer, or B Channels and they carry the actual voice or data. Another channel, called the Delta or D Channel, is used to transport signaling for the other 23 channels. This configuration is known as 23B+D.
 - a. **B Channel** The B Channel is a bi-directional synchronous channel capable of supporting digital transmission speeds of 64 kilobits per second (kbps). Each B Channel of a PRI may carry:
 - (1) Circuit-Switched Voice
 - (2) Circuit-Switched Data
 - b. **D Channel** The D Channel is a 64 kbps digital signaling channel that carries signaling and control for the B Channels.

(1) This service will be grandfathered to existing customers effective May 1, 2018. This service will not be available to new customers after this date.

(N)

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QUINCY TELEPHONE COMPANY d/b/a TDS TELECOM Florida

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INTEGRATED SERVICES DIGITAL NETWORK

2. PRIMARY RATE INTERFACE (PRI) (1) (Continued)

(N)

(N)

B. PRIMARY RATE INTERFACE (PRI) SERVICE ARRANGEMENT (Continued)

- Primary Rate Access Facility The Primary Rate Access Facility provides a high capacity digital link over which the Primary Rate services are delivered. This facility is based on a 1.544 mbps DS1 carrier (T1 facility).
- 3. Multiple PRI Arrangement There may be situations where more than 23 B Channels are needed at a particular customer premise. In those situations, multiple PRI facilities can be assigned to a PRI arrangement. With the multiple PRI arrangement, the D Channel in the first PRI facility is used to transport signaling for additional PRI facilities. The first PRI would be configured as 23B+D and the other PRIs 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.
- 4. **D Channel Backup** In Multiple PRI Arrangements, a second D Channel can be assigned (where available) as an automatic backup to the primary D Channel. This can be offered when more than one PRI is provided to the same customer in order to provide redundancy of the signaling channel.
- ISDN-PRI Failover Solution Allows a customer's incoming ISDN-PRI traffic to overflow to a predetermined alternate route in an out-pf-service situation. The incoming traffic is forwarded to a remote call forward number and then forwarded to one or more basic access lines in a hunt group.

C. 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:

- Clear Channel Capability A characteristic of the transmission paths on the "B" channel that allows the full bandwidth on the "B" channel, 64 kbps, to be available to the customer. However, ISDN interconnection to non-ISDN equipped central offices will be potentially subjected to analog transmission or sub-rated to 56 kbps.
- 2. **Dedicated Trunk Groups** The B Channels of a PRI can be dedicated for calls to and from the public network: Incoming, Outgoing, 2-way, Direct Outward Dialing (DOD) or Direct Inward Dialing (DID).

(1) This service will be grandfathered to existing customers effective May 1, 2018. This service will not be available to new customers after this date.

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INTEGRATED SERVICES DIGITAL NETWORK

2. PRIMARY RATE INTERFACE (PRI) (1) (Continued)

(N)

- C. CIRCUIT SWITCHED SERVICE DESCRIPTIONS (Continued)
 - 3. **Primary Rate Call-By-Call Service** The Primary Rate Call-By-Call (CBC) feature offers access to additional services such as:
 - Foreign Exchange,
 - Tie Trunk.
 - InWATS.
 - and OutWATS

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

- 4. **Multiple Directory Numbers** Each PRI includes an individual directory number. Additional directory numbers, a range of directory numbers, or several ranges of directory numbers can be optionally added.
- 5. Advanced Calling Services ISDN-PRI can support access to the following Advanced Calling Services (also called CLASS services) from suitably equipped CPE:
 - a. Caller ID Basic- This feature allows the central office and the customer's equipment to communicate the calling party's directory number on calls carried by the Primary Rate service. The number can then be made available to be displayed on a properly equipped telephone set or adjunct equipment.

(1) This service will be grandfathered to existing customers effective May 1, 2018. This service will not be available to new customers after this date.

(N)

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INTEGRATED SERVICES DIGITAL NETWORK

2. PRIMARY RATE INTERFACE (PRI) (1) (Continued)

(N)

D. TECHNICAL SPECIFICATIONS

Transmission Specifications - The Primary Rate Access Facility provides a
high capacity digital link over which the Primary Rate services are 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 = Q.931 Signaling

Data Rate = 64 kbps clear or kbps restricted
 D Channel = 24th channel on the T1 facility

 Customer Premise Equipment (CPE) and Facilities - Compatible CPE is required to utilize ISDN-PRI. All equipment used to interface with these services is required to conform with ISDN guidelines as referenced in the following Bellcore specifications:

| Document Number | <u>Description</u> |
|-----------------|--|
| TR-NWT-001268 | ISDN Primary Rate Interface Call Control Switching and Signaling Generic Requirements for Class II Equipment |
| SR-NWT-002343 | ISDN Primary Rate Interface 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 utilized in the provisioning of ISDN services render any facilities provided by the customer obsolete or require modification of such equipment or system, or otherwise affect its use or performance.

(1) This service will be grandfathered to existing customers effective May 1, 2018. This service will not be available to new customers after this date.

(N)

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QUINCY TELEPHONE COMPANY d/b/a TDS TELECOM

Section 10

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INTEGRATED SERVICES DIGITAL NETWORK

2. PRIMARY RATE INTERFACE (PRI) (1)(Continued)

(N)

E. REGULATIONS AND CONDITIONS

- 1. Unless specifically exempted, ISDN 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. ISDN-PRI is 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.
 - a. The availability, functionality, and capabilities of ISDN-PRI may vary, or may not be available, dependent upon type of serving central office switch, related software controlling that switch and associated outside plant.
 - (1) 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.
 - (2) Mileage Charges: Provision of the underlying PRI Access facility (T1) is mileage sensitive. As such, additional mileage charges may apply.
- 3. Payment for Service:
 - The minimum charge period for services provided under this tariff is one month.
 - b. The customer may choose to pay for the service on a month-to-month basis.
 - c. Suspension of service is not allowed.
- 4. Directory Listings: One directory listing is provided without charge for each ISDN-PRI customer. Additional listings may be provided as specified for Additional Listing Service in the Rates & Charges section of this ISDN-PRI tariff.

(1) This service will be grandfathered to existing customers effective May 1, 2018. This service will not be available to new customers after this date.

(N)

ISSUED: July 3, 2019 EFFECTIVE: July 10, 2019

QUINCY TELEPHONE COMPANY d/b/a TDS TELECOM

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INTEGRATED SERVICES DIGITAL NETWORK

2. PRIMARY RATE INTERFACE (PRI) (1)(Continued)

(N)

E. REGULATIONS AND CONDITIONS (Continued)

- 5. Billable Call Treatment: Normal toll charges (including InWATS and OutWATS charges) shall apply to calls that are made outside of the Local Service Area.
- 6. Customer Premise Equipment (CPE):
 - a. 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.
 - b. The customer is responsible for providing the power required for any and all CPE connected to an ISDN-PRI.
- 7. The Telephone Company shall not be liable for any loss or damages arising out of error, interruptions, defects, failure, or malfunctions of ISDN services or associated equipment. Damages arising out of such interruptions, defects, failures, or malfunctions of the services after the Telephone 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.
- 8. Service Establishment Charges do not apply for the establishment of the Communication Channels when the customer signs an agreement to subscribe to ISDN-PRI for a minimum of 3 years. If the customer discontinues service prior to the conclusion of the 3 year agreement, the customer will incur a disconnection charge equal to the Service Establishment Charges. The disconnection charge will not apply if the customer purchases other services from the Company which replace ISDN-PRI service.
- 9. PRI Service is provided for use by the end-user customer only as a local switched service. PRI service is not available for use by Commercial Mobile Radio Carriers, Private Mobile Radio Carriers, Inter-exchange 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.

(1) This service will be grandfathered to existing customers effective May 1, 2018. This service will not be available to new customers after this date.

(N)

ISSUED: July 3, 2019 EFFECTIVE: July 10, 2019

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INTEGRATED SERVICES DIGITAL NETWORK

| INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE PRIMARY RATE INTERFACE (PRI) (1) ISDN-PRI RATE SCHEDULE | | | |
|---|--|--|--|
| ISDN Service | Monthly Rate | Service Establishment (Nonrecurring Rates) | |
| 1. ISDN-PRI ACCESS: a. ISDN-PRI Access Facility (first mile) | Included in ISDN-PRI Rate (Communication Channels Mo. Rate) | Included in ISDN-PRI Service Establishment (Communications Channels Svc Establishment) | |
| b. PRI Access Facility - Mileage Charges (each additional mile) | \$20.00/each additional mile | Included in ISDN-PRI Service Establishment (Communication Channels Svc Establishment) | |
| 2. COMMUNICATION CHANNELS: a. B Channels plus D Channel, OR B Channels (Multiple PRI Arrangement) | Month to Month \$700.00 24 Month \$650.00 36 Month \$600.00 60 Month \$550.00 | \$1,000.00 \$1,000.00 Waive Waive | |
| b. T1/PRI Rearrangement Charge (In Lieu of \$1,000.00 Service Establishment Charge when the customer already has a T1 in place) | N/A \$100.00 | \$200.00 \$150.00 | |
| d. Directory Numbers: Primary Directory Number (w/each ISDN-PRI) Additional Directory Numbers e. ISDN-PRI Failover Solution | Included \$2.00/Directory Number | Included \$25.00/Initial Service Establishment Request No Charge | |
| B. CIRCUIT SWITCHED FEATURES: | No Charge | No Charge | |
| a. Features: 1. Clear Channel Capability | No Charge | No Charge | |
| Call-by-Call Capability for the following: a. Public Network Calls (incoming, outgoing or 2-way trunk calls) | No Charge | No Charge | |
| b. DID c. FX: All existing tariff rates apply to FX facilities between CO's. | No Charge \$10.00 | No Charge \$50.00 | |
| d. Tie Facility: All existing tariff rates apply to Tie facilities between CO's. | \$10.00 | \$50.00 | |
| e. InWATS: All existing tariff rates apply to measured InWATS. | \$10.00 | \$50.00 | |
| f. OutWATS: All existing tariff rates apply to measured OutWATS. | \$10.00 | \$50.00 | |
| 3. Advanced Calling Services: Caller ID - Basic (per PRI) | Included w/ISDN-PRI (Communication Channels Mo. Rate) | Included in ISDN-PRI Service Establishment (Communications Channels Svc Establishment) | |
| b. Subsequent Feature Additions/Changes: Feature Additions/Changes per PRI | N/A | \$50.00 | |
| c. Move Charge To Move ISDN-PRI Service, per PRI | N/A | \$25.00 | |

⁽¹⁾ This service will be grandfathered to existing customers effective May 1, 2018. This service will not be available to new customers after this date.

ISSUED: July 3, 2019 EFFECTIVE: July 10, 2019

BY: Joel Dohmeier, President

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