
ACCESS SERVICE

17. Private Line Services

17.1 General

This section contains regulations for Intrastate Private Line Services. These services are provided to customers by the concurring carriers of this tariff, hereinafter the Company or Companies. This tariff also contains Private Line Services regulations that are applicable when these services are ordered or modified by the customer.

17.1.1 General Description

The term Private Line Services includes the following:

- (A) Private Line Service provides a line with or without access to the exchange systems for telephone communication.
- (B) A Leased Channel Service is an electrical path for one of the following specific purposes:
 - Data communication
 - Remote operation of a mobile radiotelephone system
 - Remote metering, supervisory control and alarm signaling purposes providing for the reading of meters and the control of switches in the remote operation of the subscriber's apparatus or other units of his plant, such as the electrical power apparatus at the station of an electric utility, the pumps and other equipment along an oil or gas pipe line, use in other unattended industrial processes of the subscriber and use in remote operation of an alarm signaling device or a relay
 - Voice channels for use with subscriber-provided intercommunicating equipment
- (C) Digital Data Service (DDS) is a service which provides for simultaneous two-way transmission of digital signals at synchronous speeds of 2.4, 4.8, 9.6 or 56 kbps between two or more points within a LATA.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.2 Regulations

A private line may have within one exchange a maximum of four terminations with a total of four bells or other signals, connected either permanently or by key operation.

A private line may terminate in switching equipment which permits connection of the line to any of several stations on the same premises.

Private Line Services are furnished subject to the availability of facilities and the requirements of local exchange and toll service.

The Telephone Company may test and adjust the line and equipment as often as necessary at any time during regular business hours agreeable to the subscriber and the Telephone Company. No allowance for interruption of service is made for the time required to make such tests and adjustments. The subscriber assumes all risk of errors, delays or accidents occurring in the operation of private line services and also for any interruptions due to failure of power supply.

In the absence of gross negligence or willful misconduct, no liability shall attach to the Telephone Company for damages arising from the furnishing of private line service. If service is interrupted, a pro rata allowance at the Tariff rate for the service shall be made for the time such interruption continues after notice and demand to the Telephone Company, provided such interruption is not caused by negligence or willful act of the subscriber or by failure of power supply or by testing and adjusting.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels

17.3.1 Regulations

Leased channels are not permitted to be connected with exchange or toll or private line services furnished by the Telephone company except as otherwise provided in this Section.

Except as specifically provided herein the Telephone Company will furnish all channel apparatus and the subscriber will furnish all station apparatus and associated power facilities. All equipment used by subscribers in connection with leased channels is subject to the approval of the Telephone Company and must operate at a line signaling speed and with other line transmission characteristics within the range of those associated with the type of channel furnished.

Leased channels for the remote operation of mobile radiotelephone systems may terminate in non-switching equipment furnished by the subscriber. Such channels when so terminated may not be connected to exchange or toll services.

Leased channels for remote metering, supervisory control and alarm signaling purposes may terminate in station signaling equipment or supervisory control equipment furnished by the subscriber.

A leased channel furnished at the rates and charges specified herein may have within one exchange a maximum of four terminations, provided standard transmission can be furnished without the use of special equipment.

The subscriber may not create additional channels from the facilities furnished by the Telephone Company except as specifically provided for in (A), (B), (C), (D) and (E) following.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

- (A) Channels for remote operation of a mobile radiotelephone system are similar in transmission characteristics to telephone grade channels and may be used by the subscriber to create other additional channels or to transmit more than one tone or signal alternately or simultaneously for remote control and indicating purposes in connection with such radiotelephone operation, to the extent permitted by the normal transmission characteristics of such channels. These channels and channels created from them by the subscriber are not permitted to be connected with exchange, toll or private line services or with private line channels furnished by the Telephone Company, nor to be used for any other purposes for which services or channels are offered in this or other tariffs of this company.
- (B) Channels for remote metering, supervisory control and alarm signaling purposes may be used by the subscriber, to the extent permitted by the normal transmission characteristics of the grade of channel furnished, to create additional channels or transmit more than one tone or signal in sequence or simultaneously for such specific purposes. These channels and channels created from them by the subscriber are not permitted to be connected with exchange, toll or private line services or with private line channels furnished by the Telephone Company, nor to be used for any other purposes for which services or channels are offered in this or other tariffs of this Company.
- (C) Also, line facilities furnished by the Telephone Company for private line telephone service and extensions and tie lines may be used on an alternate use basis as channels for remote

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(C) (Cont'd)

operation of a mobile radiotelephone system and in connection with such alternate use, the subscriber may use such line facilities to create other additional channels or to transmit more than one tone or signal alternately or simultaneously, as provided in (A) preceding.

The subscriber may switch the line facilities from one type of use to the other (alternate) type of use by means of a key to be provided by the subscriber but only one such type of use can be made at one time.

Under no conditions may the alternate use channel be connected to private branch exchange or extension stations or to local or toll central office lines nor shall the subscriber's equipment be used in any manner which may falsely operate or injuriously affect the service or equipment furnished by the Telephone Company.

- (D) Subscribers by use of their own equipment and to the extent permitted by the normal transmission characteristics of the grade of channel ordered may create additional channels by sub-dividing a two-point Data Schedule 4 Leased Channel for data transmission. The telephone company makes no representation as to the suitability of the channels provided by it for such sub-division into additional channels by the subscriber.

Channels created by the subscriber may be connected to leased channels.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(D) (Cont'd)

Where alternate use of channels is provided in accordance with this Tariff, and one of the purposes for which the channel facilities are to be used requires a type of channel for which a higher rate applies than for the other purpose or purposes, the higher channel rate applies.

The magnitude and the character of the voltages and currents impressed on the leased channel by the subscriber provided equipment and wiring and the operation and maintenance of such equipment and wiring shall be such as not to interfere with any of the services offered by the Telephone Company or interfere with others.

The characteristics of the subscriber-provided apparatus shall be such that its connection to the leased channel does not interfere with service over the other Telephone Company lines or channels or impair privacy of communication over such lines or channels. If, in the judgment of the Telephone Company, additional protective equipment is required to prevent such interference or impairment, such equipment shall be provided by the subscriber. Subscriber-provided equipment and the power supply to which it is connected shall be of such character and so located as to avoid injury to the public or Telephone Company employees, or damage to Telephone Company plant.

The Telephone Company may, upon notice to the subscriber, make such tests and inspections as may be necessary to determine that the above requirements are being complied with

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(D) (Cont'd)

in the installation, operation and maintenance of subscriber-provided equipment. The Telephone Company may interrupt the channel at any time if, in its judgment, such action becomes necessary in order to protect the public, the Telephone Company's Employees or its plant and services.

The Telephone Company may test and adjust the leased channel as often as necessary at any time during regular business hours agreeable to the subscriber and the Telephone Company. No allowance for interruption of service is made for the time required to make such tests and adjustments. The subscriber shall provide a means for ascertaining any inoperative condition of the leased channel when prompt detection of such condition is required for the subscriber's use.

The subscriber indemnifies and saves the Telephone Company harmless against claims for libel, slander or the infringement of copyright arising from or in connection with the material or subject matter transmitted over the leased channels; against claims for the infringement of patents arising from combining with, or using in connection with, leased channels of the telephone Company apparatus and systems of the subscriber and against all other claims arising out of any act or omission of the subscriber in connection with the leased channels provided by the Telephone Company.

The subscriber assumes all risk of errors, delays or accidents occurring in the operation of leased channels, and for any interruptions due to failure of power supply.

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

- (E) In the absence of gross negligence or wilful misconduct, no liability shall attach to the Telephone Company for damages arising from the furnishing of a leased channel. If service is interrupted a prorata allowance at the Tariff rate for the leased channel shall be made for the time such interruption continues after notice and demand to the Telephone Company, provided such interruption is not caused by negligence or willful act of the subscriber or by failure of power supply or by testing and adjusting.

The Company may terminate leased channels, without notice, for any of the following reasons:

- (1) Upon objection to their continuance made by or on behalf of any governmental authority.
 - (2) If, in the judgment of the Telephone Company, any use of the facilities by the subscriber tends to injuriously affect the efficiency of the Telephone Company's plant, property, or service.
 - (3) Upon the use of any of the facilities for the purpose of performing any service which the Telephone Company or the Associated Companies may now or hereafter perform.
- (F) To protect the telecommunications network and the services furnished to the general public by the Telephone Company from harmful effects, the signal from the subscriber provided terminal equipment must comply with the following minimum network protection criteria:

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(F) (Cont'd)

- (1) The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18db below the power of the signal at the central office which in turn shall not exceed 12db below one milliwatt when averaged over any three second interval.
- (2) The power in the band from 4,000 Hertz to 10,000 Hertz shall not exceed 16db below one milliwatt.
- (3) The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24db below one milliwatt.
- (4) The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36 db below one milliwatt.
- (5) The power in the band above 40,000 Hertz shall not exceed 50db below one milliwatt.

(G) In connection with an alarm service or system, where an alarm company determines which patrons will be paired on a two point leased channel, the following additional regulations apply:

- (1) Both terminations of the leased channel must be within the same building area.
- (2) Each patron must, by letter, designate the alarm company as an agent in matters of leased channel arrangements and configurations.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(G) (Cont'd)

- (3) The alarm company is responsible for determining which patrons will be paired. When a re-pairing of existing patrons is required, the alarm company is responsible for the appropriate charges.
- (4) Apart from the interruption allowance applicable to those situations referred to above, no liability shall attach to the Telephone Company for damages to either or both patrons or to the alarm company due to errors, mistakes, omissions, interruptions, or delays of the Telephone Company, its agents, or employees in the course of establishing, furnishing, rearranging, moving, suspending, terminating or changing the service or facilities of the leased channel and/or exchange line in the absence of gross negligence or wilful misconduct.

(H) Central Office Bridging Arrangements for Telephone Grade Leased Channels For Alarm Signaling Purposes

This non-amplifying bridging arrangement has a capacity for bridging one input circuit from the alarm company's central station and multiple circuits terminating on the premises of the alarm company's patrons. Only the input circuit may be extended beyond the area served by the central office in which the bridging arrangement is located.

Charges for channel terminals, connecting arrangements and local channels are applicable only at the terminations of the channel at the subscriber locations.

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(H) Central Office Bridging Arrangements for Telephone Grade Leased Channels For Alarm Signaling Purposes (Cont'd)

Direct electrical connection is not permitted from one bridging arrangement to another by use of Telephone Company-provided equipment or channels or subscriber-provided equipment. However, if the subscriber-provided equipment regenerates or otherwise transfers a signal without direct electrical connection to another telephone grade leased channel, the liability of the Telephone Company shall be limited to only that portion of the leased channel arrangement affected by the service interruption either between the central station alarm location and the subscriber-provided equipment or between the subscriber-provided equipment and the termination point of the channel. The maximum allowance for service interruptions covers the charges for bridging arrangement and its 10 associated leased channels.

(I) Leased Channels for Data Transmission

(1) General

Data Schedule 4 Channels are furnished for the transmission and reception of data signals. Data Schedule 4 Channels are similar in transmission characteristics to telephone grade channels furnished for private line service. Channels furnished under this schedule may be used only in connection with terminal equipment.

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(J) Channel Conditioning for Data Schedule 4 Channels and Access Channels

- (1) Basic Data Conditioning, required on all Data Schedule 4 Channels and Access Channels providing Data Schedule 4 Service:
 - the envelope delay distortion shall not exceed:
between 800 and 2600 Hertz, a maximum difference of 1750 nanoseconds
 - the loss deviation with frequency (from 1000 Hertz reference) shall not exceed:
between 500 and 2500 Hertz, -2dB to +8dB
between 300 and 3000 Hertz, -3dB to +12dB
(+means more loss)
- (2) Channel Conditioning for Data Schedule 4 Channels and access channels, to meet subscribers' specifications for transmission characteristics:
 - (a) Type C1 -- the envelope delay distortion shall not exceed:
between 1000 and 2400 Hertz, a maximum difference of 1000 mcs.
 - the loss deviation with frequency (from 1000 Hertz reference) shall not exceed:
between 1000 and 2400 Hertz, -1dB to +3dB
between 300 and 2700 Hertz, -2dB to +6dB
(+means more loss)

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(J) Channel Conditioning for Data Schedule 4 Channels and Access Channels (Cont'd)

(2) (Cont'd)

- (b) Type C2 -- the envelope delay distortion shall not exceed:
between 1000 and 2600 Hertz,
a maximum difference of 500 mcs.
between 600 and 2600 Hertz,
a maximum difference of 1500 mcs
between 500 and 2800 Hertz,
a maximum difference of 3000 mcs.
- the loss deviation with frequency (from 1000 Hertz reference) shall not exceed:
between 500 and 2800 Hertz, -1db to +3db
between 300 and 3000 Hertz, -2db to +6db
(+ means more loss)
- (c) Type C4 -- the envelope delay distortion shall not exceed:
between 1000 and 2600 Hertz,
a maximum difference of 300 mcs.
between 800 and 2800 Hertz,
a maximum difference of 500 mcs.
between 600 and 3000 Hertz,
a maximum difference of 1500 mcs.
between 500 and 3000 Hertz,
a maximum difference of 3000 mcs.
- the loss deviation with frequency (from 1000 Hertz reference) shall not exceed:
between 500 and 3000 Hertz, -2db to +3db;
between 300 and 3200 Hertz, -2db to +6db
(+ means more loss)

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(J) Channel Conditioning for Data Schedule 4 Channels and Access Channels (Cont'd)

(2) (Cont'd)

(d) Type C6-- Conditioning on Audio Tone Protective Relaying Channels.

This conditioning is furnished only to Power Companies for protection of high voltage transmission line sections. It is furnished, subject to the availability of facilities, for use with 4-wire (2-way) or 2-wire (1-way) channels.

- the loss deviation with frequency (from 1004 Hz reference) shall not exceed the following limits:

300-3000Hz	-2dB to +6dB
500-2800Hz	-1dB to +3dB
- the envelope delay distortion shall not exceed 2000 microseconds between 800 and 2600Hz.
- The resistance unbalance of the local channel cable pairs provided for Protective Relaying Channels will be 1 percent or less.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(J) Channel Conditioning for Data Schedule 4 Channels and Access Channels (Cont'd)

(2) (Cont'd)

(e) Type D1--for a two-point channel or access channel not arranged for switching:

- signal to C-notched noise ratio, -28dB
- nonlinear distortion:
 - signal to second order distortion, -35dB.
 - signal to third order distortion, -40dB.

(3) Bridging Arrangement in Central Office to Provide Multi-Point Data Schedule 4 Leased Channels:

Each bridging arrangement has a capacity of 6 terminations.

Each segment of a multi-point Data Schedule 4 leased channel is measured from the subscriber's location to the central office building where the bridging arrangement is located or between bridging arrangements in different central office between bridging arrangements in different central office buildings. Each segment is rated as provided in the company's rate schedule. When bridging arrangements are located in three central office buildings, each segment of the line between these central office termination points is computed separately and the termination points are joined in the manner which produces the lowest total rate.

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(J) Channel Conditioning for Data Schedule 4 Channels and Access Channels
(Cont'd)

(3) (Cont'd)

Charges for channel terminations and connecting arrangements associated with Group Channel Service are applicable only at the terminations of the channels at the subscriber's locations.

Channel conditioning charges specified in the company's rate schedule, where applicable, apply to each of the two terminations of each segment of a multi-point Data Schedule 4 leased channel, as defined above.

(K) Voice Channels For Use With Subscriber-Provided Intercommunicating Equipment

(1) General

In addition to the general regulations applicable to Leased Channels set forth in this Section, the following regulations apply to Voice Channels for use with Subscriber Provided Intercommunicating Equipment.

(2) Basis of Connection

(a) These channels are furnished between different premises for the purpose of connecting subscriber provided terminal equipment or communications

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(K) Voice Channels For Use With Subscriber-Provided Intercommunicating Equipment (Cont'd)

(2) Basis of Connection (Cont'd)

(a) (Cont'd)

systems to other subscriber-provided terminal equipment or communications systems, or to connect such equipment or systems to a PBX system, other switching equipment or station equipment furnished by the subscriber.

(b) These channels may be connected by the subscriber with other voice channels furnished to the same subscriber for use with subscriber provided intercommunicating equipment, or with channels for remote operation of a mobile radio telephone system.

(c) These channels may not be directly or indirectly connected with exchange or private lines or leased channels of the Telephone Company other than those described in (b) above nor with any subscriber-provided equipment or from a through connection with any channels provided by the subscriber.

(d) These channels may be used on an alternate use basis as channels for remote operation of a mobile radiotelephone system.

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(L) Central Office Voice Grade Bridging (Cont'd)

- (1) Central Office Voice Grade Bridging* provides for the connection of three or more voice grade channels in a multi-point arrangement and may be arranged in either a two-wire or four-wire termination at the customer's premises.
- (2) Regulations
 - (a) Central Office Voice Grade Bridging requires four-wire voice grade channels.
 - (b) A two-wire termination is limited to a maximum of ten ports. A four-wire termination is limited to a maximum of twenty-four ports.
 - (c) Voice Bridging (2-wire and 4-wire) is available in designated central offices identified in the National Exchange Carrier Association Tariff F.C.C. No. 4.
 - (d) Signaling may be provided by the Telephone Company at charges based on cost.
 - (e) Each segment of the Central Office Voice Grade Bridge channel is measured from the subscriber location to the central office building where the bridging arrangement is located.

* Bridging provides for the connection of three or more customer designated premises in a multi-point arrangement.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service

(1) General

1.5 megabit/sec service consists of two-point digital channels which provides for simultaneous two-way transmission of serial, bipolar, return-to-zero, isochronous digital signals at a transmission speed of 1.544 megabits per second (Mbps). 1.5 megabit/sec service may be used to connect two customer provided stations within a LATA. 1.5 megabit/sec service is furnished subject to availability of facilities.

(2) Regulations

(a) 1.5 megabit/sec service is available on a two-point basis.

(b) 1.5 megabit/sec service is furnished on a full-time basis.

(c) 1.5 megabit/sec service is designed to provide an average performance of at least 95% error-free transmission measured over a continuous 24 hour period, between the Company's interfaces using a Telephone Company test Channel Service Unit properly optioned at the time of the test. When this service is provided end-to-end over fiber optic facilities, the service shall be provided at an average performance of at least 98% error-free transmission measured over a continuous 24-hour period.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

- (d) A Channel Service Unit or the customer's functional equivalent unit is required at each terminal location on a 1.5 megabit/sec service digital facility. The unit performs such functions as: proper termination of the facility, regeneration, signal shaping and remote loop back. A unit provided by the customer must comply with the requirements of ANSI T1.403.
- 1) The Customer or user may not disconnect the Channel Service Unit or customer provided unit from the local distribution channel without prior written consent of the Telephone Company.
- (e) Service is provided by means of the following service arrangements:
- 1) Service between two customer stations located in the same Serving Wire Center, which consists of two Local Distribution Channels connected at the Serving Wire Center.
- 2) Service between two customer stations located in different Serving Wire Centers which consists of two Local Distribution Channels connected to an Interoffice Channel at the Serving Wire Centers.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(e) (Cont'd)

- 3) Service between a customer station and a central office multiplexer, which consists of a Local Distribution Channel, an Interoffice Channel, if required, and a central office multiplexer.
- 4) Service provided in conjunction with Network Reconfiguration Service, which consists of Local Distribution Channels and/or Interoffice Channels, as appropriate.
- 5) 1.5 megabit/sec service may be used for digital tie line type connections between digital centrex systems or between customer provided PBX's and digital centrex systems.

For digital tie lines connected over 1.5 megabit/sec service connecting digital centrex systems and customer-provided PBX systems the following mileage components will apply:

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(e) (Cont'd)

5) (Cont'd)

a) Tie Lines between Digital Centrex Systems

Between different central offices 1.5 megabit/sec service Interoffice Channel Charge for each group or part of each group of 24 tie lines connecting digital centrex systems appropriate per mile charges apply.

b) Tie Lines between a Digital Centrex System and a CPE-PBX

Between different central offices one Local Distribution Channel (LDC) plus Interoffice Channel Charges for each group or part of each group of 24 tie lines connecting systems (including appropriate per mile charges) apply.

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(e.1) Customer Signal Constraints

- 1) Data Rate: 1.544 Mbps \pm 32 ppm source
1.544 Mbps \pm 130 ppm sink
- 2) No more than 15 consecutive zeros may be generated.
- 3) Average pulse density is 12 ½ percent.
- 4) The customer's network interface equipment specifications must comply with ANSI 1.102 and ANSI T1.403.

(f) Minimum Service Period

The minimum service period for 1.5 megabit/sec service, including options is 3 months.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(g) Credit Allowances for Interruptions

A credit allowance will be made when an interruption occurs because of a failure of any component furnished under this tariff. An interruption is considered to have occurred when the customer reports a circuit or arrangement to be inoperative, releases it for testing and the Telephone Company determines that it is inoperative.

A circuit is considered inoperative when the Telephone Company determines that continuity has been lost or that the service is operating at a performance level of 4320 or more seconds of transmission containing errors in a consecutive 24-hour period. When this service is provided end-to-end over fiber optic facilities, the service shall be considered inoperative if it is determined by the Telephone Company that continuity of its facilities has been lost or that the Telephone Company's service is operating at a performance level of 1728 or more seconds of transmission containing errors in a consecutive 24-hour period.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(g) Credit Allowances for Interruptions (Cont'd)

If the customer reports an interruption but declines to release the circuit for repair and continues to use it, the circuit is considered to be impaired--not inoperative--and no credit allowance is made. An interruption period starts when an interruption is reported to the Telephone Company and ends when the circuit or arrangement it operative.

If the customer elects to use another means of Telephone Company-provided services (e.g., Wide Area Telephone Service) during the period of interruption, the customer must pay the tariffed rate for the alternative service used.

In certain instances, the customer may be asked to surrender a circuit for purposes other than maintenance, testing or activity relating to a service order. If the customer consents, a credit will be given. The credit will be determined in the same manner as an allowance for any circuit interruption.

For calculating credit allowances, every month is considered to have 30 days. A credit allowance is dependent upon the length of the interruption.

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(g) Credit Allowance for Interruptions (Cont'd)

1) Credit Allowances - Calculation

The Credit Allowance for a circuit is calculated by adding the total monthly charges for the circuit.

A credit allowance is determined in the following manner:

When a 1.5 or 45 megabit/sec service circuit fails through the fault of the Company, the subscriber will qualify for a refund on the next month's bill. The refund will be a percentage of the monthly charge. The credits per interruption are as follows:

<u>Interruption Period</u>	<u>Applicable Credit</u>
Less than 30 minutes	None
Over 30 minutes up to but less than 2 hours	10% of Monthly Charge
2 hours up to and including 4 consecutive 24 hour periods	35% of Monthly Charge
Over 4 consecutive 24 hour periods	100% of Monthly Charge

Continued

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Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(g) Credit Allowance for Interruptions (Cont'd)

1) Credit Allowances - Calculation (Cont'd)

In any month as a result of interruption, the total credit of interrupted service may not exceed 100% of the monthly charge.

In addition, there are specific credit allowance regulations that only apply to a given type of circuit or arrangement. Those regulations are specified in the section of the tariff which is applicable to the specific circuit or arrangement.

Continued

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Laurie A. Maffett
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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(g) Credit Allowance for Interruptions (Cont'd)

2) Credit Allowances - Exceptions (Cont'd)

No Credit allowance will be made for the following:

- a) Interruptions caused by the negligence of the customer, user or others.
- b) Interruptions due to the failure of equipment or systems provided by others.
- c) Interruptions during any period in which the Telephone Company is not afforded access to the premises where the circuit is terminated.
- d) Interruptions during any period when the customer or user has released a circuit or arrangement to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of a customer order for a change or rearrangement.

Continued

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Laurie A. Maffett
Vice President Regulatory Affairs
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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(g) Credit Allowance for Interruptions (Cont'd)

2) Credit Allowances - Exceptions (Cont'd)

- e) Interruptions which continue because of the failure of the customer to authorize replacement of any element of special construction. The period for which no credit allowance is made begins on the seventh day after the customer receives the Telephone Company's written notification of the need for such replacement and ends on the day after receipt of the customer's written authorization for such replacement.
- f) Periods when the customer elects not to release the circuit or arrangement for testing and/or repair and continues to use it on an impaired basis.

Continued

Issued: March 12, 2003

Laurie A. Maffett
Vice President Regulatory Affairs
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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(h) Mileage Measurements

1) Interoffice Channel

Mileage used to rate the Interoffice Channel is the direct airline distance measured between the Serving Wire Centers.

2) Local Distribution Channel

Mileage used to rate the Local Distribution Channel is the direct airline distance measured between the customer's premises and the Serving Wire Centers.

(i) Special Construction and Special Development

- 1) A circuit or arrangement is offered subject to the availability of suitability of suitable components (i.e., service functions, channels, or features). When these items are not available, a customer may request that they be specially constructed or developed.

Continued

Issued: March 12, 2003

Laurie A. Maffett
Vice President Regulatory Affairs
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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(i) Special Construction and Special Development (Cont'd)

2) Special Construction of Plant - Special construction of plant is provided on a contract basis.

(j) Diverse Routing

The Diverse Routing service function allows a customer with multiple 1.5 megabit/sec services between the same premises to designate that all such services or any subset of such services be physically provided over different routes. In the event suitable facilities are not available, special construction charges may be applicable.

(k) The Telephone Company shall not be responsible to the customer or user if changes in any of the facilities, operations or procedures of the Telephone Company utilized in the provision of 1.5 megabit/sec service render any facilities provided by a customer or user obsolete or require modification or alteration of such equipment or system or otherwise affect its use of performance.

Continued

Issued: March 12, 2003

Laurie A. Maffett
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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(l) The Telephone Company undertakes to maintain and repair the facilities which it furnishes hereunder. The customer or user may not rearrange, disconnect, remove or attempt to repair any equipment installed by the Telephone Company without prior written consent of the Telephone Company.

(m) 1.544 Clear Channel Capability Option

- 1) This service option will be available only between locations which are equipped for sending and receiving signals with B8ZS coding/decoding capabilities.
- 2) Customer provided equipment must be capable of transmitting and decoding B8ZS signals as described in ANSI T1.102.

Continued

Issued: March 12, 2003

Laurie A. Maffett
Vice President Regulatory Affairs
Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(m) 1.544 Clear Channel Capability Option

- 3) Rates and regulations for 1.5 megabit/sec service continue to apply except for the customer signal constraints of no more than 15 consecutive zeros and at least three pulses in any 24 bit interval.
- 4) The nonrecurring charge applies only when an existing circuit is arranged for Clear Channel Capability.
- 5) Customers must agree to out-of-service periods required to add this feature to an existing circuit. No credit allowance will be made for the periods of interruption.

(n) Central Office Multiplexer Option

- 1) The Central Office Multiplexer Option combines up to 24 voice grade channels. The voice grade channel services available for Central Office Multiplexing include:

Continued

Issued: March 12, 2003

Laurie A. Maffett
Vice President Regulatory Affairs
Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(n) Central Office Multiplexer Option (Cont'd)

1) (Cont'd)

- a) Voice grade circuits
- b) Analog data circuits
- c) PBX and Centrex off premises extensions
- d) Tie Lines
- e) Interoffice portion of a non-adjacent foreign exchange line (FX)

2) Multiplexing equipment is available in designated central offices identified in the National Exchange Carrier Association Inc. Tariff F.C.C. No. 4.

3) The customer-provided multiplexer at the customer's premises must be compatible with the central office multiplexer and comply with the requirements of Technical Reference TR-TSY-000009.

Continued

Issued: March 12, 2003

Laurie A. Maffett
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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(n) Central Office Multiplexer Option (Cont'd)

4) A subscriber to Central Office Multiplexing will be billed the following rates and charges:

- a) 1.5 megabit/sec service rates and charges; and
- b) rates and charges for the appropriate voice grade channels between the central office multiplexer and the customer's premises; and
- c) Central Office Multiplexing arrangement rates and charges.

In addition, the following non-recurring charges apply: the private line installation charge and, if appropriate the Channel Connection Charge (paragraph 17.6.2(C)(4) apply for each channel arranged for Central Office Multiplexing.

5) When Central Office Multiplexing is used in connection with the provision of Non-Adjacent Foreign Exchange Service, all regulations, rates and charges associated with FX Service, as specified elsewhere in this tariff, apply; except that, 1.5 Mbps rates apply in lieu of the interoffice mileage charges specified in Section 17.6.

Continued

Issued: March 12, 2003

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Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(M) 1.5 Megabit/Sec Service (Cont'd)

(2) Regulations (Cont'd)

(o) Individual Case Billing Arrangements

The Telephone Company may, in response to competitive requests for proposal, develop a responsive individual case billing arrangement for 1.5 megabit/sec service.

Prices quoted may be different from those in effect in the Company's rates tariff, but will be set at a level that is at least equal to the relevant incremental costs for the requested service. Relevant incremental costs would include the appropriate Universal Service Element as specified in the Company's rates tariff. Such prices will also be available for similarly situated customers. Appropriate cost support will be submitted to the Commission upon request.

The Company will report the following information in a tariff addendum within 30 days after individual case billing arrangement implementation:

- 1) LATA, serving wire center
- 2) Service description
- 3) Rates and Charges
- 4) Number of lines, loops or circuits, as appropriate
- 5) Length of agreement

Continued

Issued: March 12, 2003

Laurie A. Maffett
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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(N) Fiber Optic 45 Megabit/sec Service

(1) General

Fiber optic 45 megabit/sec service is a leased channel for high capacity transport of digital electrical signals. This service uses lightwave facilities that provide high quality transmission performance and circuit reliability.

(2) Description

Fiber optic 45 megabit/sec service consists of a two-point digital channel which provides for simultaneous two-way transmission of serial, bipolar (B3ZS), return-to-zero, isochronous digital electrical signals at a transmission rate of 44.736 megabits per second (Mbps) \pm 20 ppm. This service may be used to connect two customer locations serviced from wire centers within a Local Access Transport Area (LATA) or connect a customer location to central office multiplexing equipment.

Continued

Issued: March 12, 2003

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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(N) Fiber Optic 45 Megabit/sec Service (Cont'd)

(3) Regulations

- (a) Fiber optic 45 megabit/sec service is available on a two-point basis or may be connected to a central office multiplexer.
- (b) Fiber optic 45 megabit/sec service is furnished on a full-time basis.
- (c) Fiber optic 45 megabit/sec service is provided on digital fiber optic equipment and lightwave facilities selected by the Telephone Company and is provided only from serving wire centers equipped to furnish such service within a LATA.
- (d) This service is subject to the availability of suitable lightwave facilities between the serving wire center and the customer's premises, and between serving wire centers when interoffice facilities are required.
- (e) It is the responsibility of the customer (or any other party in interest such as the applicant for service or the owner or operator of the premises or the builder) to provide in a manner satisfactory to the Telephone Company and without cost to the Telephone Company: a means of entrance for the fiber optic cable into the building; space for mounting the necessary terminals and equipment; and, where required, a means to reach each floor and each suite or office on each floor where telephone service is desired.

Continued

Issued: March 12, 2003

Laurie A. Maffett
Vice President Regulatory Affairs
Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(N) Fiber Optic 45 Megabit/sec Service (Cont'd)

(3) Regulations (Cont'd)

(f) Service is provided by means of the following service arrangements:

- 1) Service between two customer locations in the same serving wire center, which consists of two local distribution channels connected at the serving wire center.
- 2) Service between two customer locations in different serving wire centers, which consists of two local distribution channels connected to an interoffice channel at the serving wire centers.
- 3) Service between a customer location and a central office multiplexer, which consists of a local distribution channel, an interoffice channel if required, and a central office multiplexer.
- 4) An interconnector may request connection of the interconnector's multiplexing node to fiber optic 45 Mbps Service in a Company central office. When such connection is provided the specified rates will apply for the service. A Service Access Charge and a Universal Service Element specified in the company's rate schedule will apply for the connection of the fiber optic 45 Mbps service elements provided.

Continued

Issued: March 12, 2003

Laurie A. Maffett
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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(N) Fiber Optic 45 Megabit/sec Service (Cont'd)

(3) Regulations (Cont'd)

- (g) This service is designed to provide an average performance of at least 98% error-free seconds transmission measured over a continuous 24 hour period at the Company interface.
- (h) The minimum service period is three months.
- (i) 110 volt AC, 15 amperes, separately fused, non-switch controlled, single power outlet must be provided by the customer for this service.
- (j) Battery backup for the customer's service may be provided by the Telephone Company at charges based on cost.
- (k) The customer's equipment must comply with the jitter mask for a DS-3 signal in both transmit and receive directions, as specified in ANSI T1.102.
- (l) Credit allowances for Interruptions

A credit allowance will be made when an interruption occurs because of a failure of any component furnished under this tariff. An interruption is considered to have occurred when the customer reports a circuit or arrangement to be inoperative, releases it for testing and repair.

Continued

Issued: March 12, 2003

Laurie A. Maffett
Vice President Regulatory Affairs
Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(N) Fiber Optic 45 Megabit/sec Service (Cont'd)

(3) Regulations (Cont'd)

(l) Credit allowances for Interruptions (Cont'd)

A circuit is considered inoperative when continuity has been lost, or when 1728 error seconds appears in a consecutive twenty-four hour period. If the customer reports an interruption but declines to release the circuit for repair and continues to use it, the circuit is considered to be impaired - not inoperative - and no credit allowance is made. An interruption period starts when an interruption is reported to the Telephone Company and the Telephone Company determines that the circuit is inoperative. An interruption period ends when the circuit is operative.

The customer may be asked to surrender a circuit for purposes other than maintenance, testing or activity relating to a service order. If the customer consents, a credit will be determined in the same manner as an allowance for circuit interruption.

(m) Credit Allowances - Calculations and Exceptions

- | | |
|---------------------------------|------------------|
| 1) Calculations -
preceding. | See (M)(2)(g)(1) |
| 2) Exceptions -
preceding. | See (M)(2)(g)(2) |

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(N) Fiber Optic 45 Megabit/sec Service (Cont'd)

(3) Regulations (Cont'd)

- (n) The Telephone Company shall not be responsible to the customer or user if changes in any of the facilities, operations or procedures of the Telephone Company utilized in the provision of Fiber optic 45 megabit/sec service renders any equipment provided by a customer or user obsolete or requires modification or alteration of such equipment or system or otherwise affects its use or performance.
- (o) The Telephone Company undertakes to maintain and repair the facilities which it furnishes hereunder. The customer or user may not rearrange, disconnect remove or attempt to repair any equipment installed by the Telephone Company without prior written consent of the Telephone Company.
- (p) Mileage Measurements
 - 1) Interoffice Channel

Mileage used to rate the Interoffice Channel is the direct airline distance measured between the serving wire centers.

Continued

Issued: March 12, 2003

Laurie A. Maffett
Vice President Regulatory Affairs
Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(N) Fiber Optic 45 megabit/sec Service (Cont'd)

(3) Regulations (Cont'd)

(p) Mileage Measurements (Cont'd)

2) Local Distribution Channel

Mileage used to rate the Local Distribution Channel is the direct airline distance measured between the customer designated premises and the serving wire center of that premises. The serving wire center associated with a customer designated premises is the serving wire center from which the customer would normally obtain dial tone. Any fractional 1/4 mile increment is considered to be a full 1/4 mile.

3) Local Distribution Channel

a) Monthly Rates

Standard monthly rates for Fiber optic 45 megabit/sec service local distribution channels are portrayed in four rate steps (i.e., first channel, second and third channels, fourth through ninth channels, and tenth and over channels). These steps apply to all services for the same customer between the same two locations.

Continued

Issued: March 12, 2003

Laurie A. Maffett
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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(N) Fiber Optic 45 Megabit/sec Service (Cont'd)

(3) Regulations (Cont'd)

(p) Mileage Measurements (Cont'd)

3) Local Distribution Channel (Cont'd)

a) Monthly Rates (Cont'd)

There are two monthly rates that apply for each step i.e., as fixed rate and rate per quarter (1/4) mile. A minimum of a fixed rate and on one per 1/4 mile rate applies to each local distribution channel.

b) Nonrecurring Charges

One level of nonrecurring charge applies for the local distribution channel termination or terminations associated with the first circuit installed on customer designated premises, and a different nonrecurring charge applies for each additional termination or terminations ordered and installed at the same time on the same customer designated premises for services between the same two locations.

Continued

Issued: March 12, 2003

Laurie A. Maffett
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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(N) Fiber Optic 45 Megabit/sec Service (Cont'd)

(3) Regulations (Cont'd)

(q) Central Office Multiplexing

- 1) The Central Office Multiplexer channelizes up to 28 1.544 Mbps of 24 voice grade channels each.
- 2) Multiplexing equipment is available in designated central offices identified in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.
- 3) The customer-provided multiplexer at the customer's premises must be compatible with the central office multiplexer.
- 4) A subscriber to Central Office Multiplexing will be billed for 45 megabit/sec service and the appropriate 1.5 megabit/sec service in addition to the central office multiplexing arrangement.
- 5) Rates and charges for 1.5 megabit/sec service between the central office multiplexer and the customer's premises will apply. A connection from an Fiber optic 45 megabit/sec service central office multiplexer to a 1.5 megabit/sec service central office multiplexer within the same central office building will not incur additional charges other than those applicable to the multiplexers.

Continued

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Laurie A. Maffett
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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(N) Fiber Optic 45 Megabit/sec Service (Cont'd)

(4) Individual Case Billing Arrangements

The Telephone Company may, in response to competitive requests for proposal, develop a responsive individual case billing arrangement for Fiber optic 45 megabit/sec service.

Prices quoted in response to such requests may be different from those in effect in this tariff but will be set at a level that is at least equal to the relevant incremental costs for the requested service. Relevant incremental costs would include the appropriate Universal Service Element as specified in the company's rate schedule. Such prices will also be available for similarly situated customers. Appropriate cost support will be submitted to the Commission.

An individual case billing arrangement price quote will be offered for acceptance in acceptance in writing. Such individual case billing arrangements will specify, among other things, length of service, minimum volume of service required, and the rates and charges for the proposed service.

Continued

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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(O) High Voltage Protection Equipment

(1) General

High Voltage Protection Equipment is designed to isolate or neutralize fault-produced hazardous voltages. The Company services provided on metallic facilities extending to electric power generating, switching and distributing locations require High Voltage Protection Equipment to protect the circuit and the Company central office against the effects of a Ground Potential Rise (GPR) or induction caused by faults in the customer's electric power system.

The High Voltage Protection Equipment objectives are intended to minimize electrical hazards to personnel, to prevent electrical damage to telecommunications equipment and facilities, and to provide the required continuity of telecommunications transmission at times of power system faults.

(2) Regulations

The following regulations apply in addition to the General Rules and Regulations in Section 2 of this tariff.

- (a) High Voltage Protection Equipment is required on all telephone facilities in service at the customer location when: (1) the fault-produced Ground Potential Rise and/or voltage induction at the customer location is 1000 volts peak or greater;

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(O) High Voltage Protection Equipment (Cont'd)

(2) Regulations (Cont'd)

(a) (Cont'd)

or (2) when the fault-produced Ground Potential Rise and/or voltage induction at the customer location is 300 volts peak or greater, and at least one in-service telephone facility has been assigned a Class A Service Performance Objective by the customer.

- (b) The customer shall specify the service type and class of protection it wishes to order as described in O.3 and O.4 following. At the time service is ordered, the customer shall advise the Company of the expected fault-produced electrical environment at the customer's location so that the Company can determine the protection required. The Company shall solicit the views of the customer as to the degree of protection needed and the manner in which protection should be provided, including the choice of protective device or devices to be used. The Company shall engage in a cooperative decision-making process with the customer and shall make good faith efforts to reach a resolution on the protection arrangement, provided however that it shall be the obligation and responsibility solely of the Company to make the decision on the protection arrangement.

Continued

Issued: March 12, 2003

Laurie A. Maffett
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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(O) High Voltage Protection Equipment (Cont'd)

(2) Regulations (Cont'd)

(b) (Cont'd)

The customer may refer the Company's decision on an individual request for service or on a generic issue regarding protection to a meeting of the Relay Communications Task Force of the New York Power Pool, at which meeting the Company shall be invited to participate. Such a meeting shall allow for further consultation and review, but it shall not alter the obligation and responsibility of the Company to decide the protection arrangement.

- (c) High Voltage Protection Equipment must comply with the requirements of the Institute of Electrical and Electronic Engineering Standard 487-1980, "IEEE Guide for the Protection of Wire-Line Communications Facilities Serving Electric Power Stations."
- (d) The Company may provide the necessary High Voltage Protection Equipment at customer locations and at contractor locations which may be affected by a Ground Potential Rise.
- (e) Drainage coils requested by the customer or required in circuit for improved transmission quality may be provided at the rates and charges specified in the the company's rate schedule.

Continued

Issued: March 12, 2003

Laurie A. Maffett
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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(O) High Voltage Protection Equipment (Cont'd)

(2) Regulations (Cont'd)

- (f) The Company engineering consultations and inspections requested by the customer, which are in addition to normal installation or maintenance visits, may be provided at charges based on cost.
- (g) Where required, a Site Preparation Charge for labor, engineering and materials will be provided at charges based on cost.
- (h) Alternate route facilities may be provided at charges based on cost.

(3) Service Types

- (a) Type 1 - service channels requiring DC transmission or AC and DC transmission generally used for:

Exchange Telephone service or voice leased channel service.
- (b) Type 2 - leased channel services requiring either DC or AC and DC transmission used for pilot wire protective relaying or DC tripping.
- (c) Type 3 - leased channel services requiring AC transmission only and used for telemetering, supervisory control, data, etc.

Continued

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Laurie A. Maffett
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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.3 Leased Channels (Cont'd)

17.3.1 Regulations (Cont'd)

(O) High Voltage Protection Equipment (Cont'd)

(3) Service Types (Cont'd)

(d) Type 4 - leased channel services requiring AC transmission only and used for audio tone protective relaying.

(e) For digital service offerings only.

(4) Service Performance Objectives

Class A Protection provides for non-interruptible service. These circuits must function before, during and after the power fault condition.

Class B Protection - service performance is less critical than Class A Protection in that a service interruption can be tolerated for the duration of a power system fault but service continuity must be restored immediately after the fault.

Continued

Issued: March 12, 2003

Laurie A. Maffett
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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.4 Digital Data Service

17.4.1 General

Digital Data Service (DDS) is a private line digital service which provides for simultaneous two-way transmission of digital signals at synchronous speeds of 2.4,4.8, 9.6, 19.2 or 56 kbps between two or more points within a LATA.

DDS customers may utilize interoffice digital transport channel or 1.5 megabit/sec service and Central Office Multiplexing for this service.

Secondary Channel Capability is an optional feature which permits a primary channel to be used with customer-provided Data Service Units which can derive a lower bit rate channel for simultaneous two-way synchronous transmission of digital signals at bit rates of 133_, 266_, 533_, 1066_, or 2666_ bits per second, depending on the primary channel speed between two or more customer premises.

17.4.2 Regulations

- (A) Channel terminations must have technically compatible customer provided equipment at both ends.
- (B) Mileage measurements for DDS are based on the airline distance using longitude and latitude coordinates between the serving wire centers.
- (C) When a subscriber's locations are served by separate serving central offices on a two-point service, appropriate interoffice channel rates apply between the two serving offices.

Continued

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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.4 Digital Data Service (Cont'd)

17.4.2 Regulations (Cont'd)

- (D) Interoffice mileage charges apply on Multi-station Service to all subscriber non-nodal central office locations from the subscriber's serving central office to the Company-designated node.
- (E) On Multiplex Option, when a subscriber is located in a non-nodal serving central office individual Channels are provided to a Company-designated node at rates for individual Channel terminations and interoffice channel mileage as appropriate. In addition, Local Distribution Channel, Interoffice Channel and Central Office Multiplexing regulations, rates and charges apply for 1.5 and Fiberoptic 45 megabit/sec services as specified in paragraphs (2)3 and (2)4 for the channel segment from the node to the customer premises.
- (F) Secondary Channel Capability Option
 - (1) This optional feature may be ordered at the same time the Primary Channel is ordered or it may be ordered as an addition to existing DDS service.
 - (2) Customers must agree to out-of-service periods required to add this feature to an existing DDS service.
 - (3) Customers must provide customer premises equipment which is compatible with the Secondary Channel Interface requirements specified in TR-NPL-000157.
 - (4) Service is not available on a DDS Primary Channel which requires regenerative repeaters in the loop to the customer premises.

Continued

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Vice President Regulatory Affairs
Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.4 Digital Data Service (Cont'd)

17.4.2 Regulations (Cont'd)

(G) The minimum period for which service is furnished and for which charges are applicable is one month.

17.4.3 Individual Case Billing Arrangements

The Telephone Company may, in response to competitive requests for a proposal, develop a responsive individual case billing arrangement for DDS.

Prices quoted in response to such requests will include station channel termination rates and charges as specified in (H)8. Other rates and charges (i.e., Inter-office Channel mileage and Digital Data service rates) may be different from those in effect in this tariff. Prices quoted will be set at a level that is at least equal to the relevant incremental costs for the requested service. Relevant incremental costs would include the appropriate Universal Service Element as specified in the company's rate schedule, for 2-wire or 4-wire other than signal grade facilities. Such prices will also be available for similarly situated customers. Appropriate cost support will be submitted to the Commission.

An individual Case billing arrangement price quote will be offered for acceptance in writing. Such individual case billing arrangements will specify, among other things, the length of service, minimum volume of service required, and the rates and charges for the proposed service.

Continued

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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.5 Multiple Company Billing

Multiple company billing is required when Private Line Services are jointly provided by multiple companies. Multiple company billing will employ the multiple bill method. The company taking the service order from the end-user must notify the customer of:

- the Company(s) that will render the bill(s)
- the Company(s) to whom payment(s) should be remitted, and
- the Company(s) that will provide the bill inquiry function.

The Company shall provide such notification at the time that orders are placed for access service. Additionally, the Company shall provide this notice in writing 30 days in advance of any changes.

The Company will include on the bill, based upon Industry Standards as described in the Multiple Exchange Carrier Access Billing Guidelines and the Multiple Exchange Carrier Ordering and Design Guidelines, cross reference(s) to the other Company(s) service and the common circuit identifiers. Should a billing dispute arise, the Terms and Conditions as outlined in Section 2 of this tariff will apply.

17.5.1 Multiple Bill Method

Each Company will receive an order or a copy of the order from the customer. Each Company will be the Bill Rendering Company and will:

- prepare its own bill;
- determine its charge(s) as set forth in its tariff;
- determine and include all other recurring and nonrecurring rates and charges of its tariff;

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.5 Multiple Company Billing (Cont'd)

17.5.1 Multiple Bill Method (Cont'd)

- bill in accordance with its tariff; and
- forward its bill to the customer.

The customer will remit payment directly to each Bill Rendering Company.

17.5.2 Determination of Meet Point Billed Recurring Interoffice Variable Mileage Charges*

- (A) Determine the appropriate Interoffice Mileage by computing the airline miles between serving wire centers using the V&H coordinates method where applicable. The mileage to be used to determine the monthly charge for Variable Interoffice Mileage is calculated on the airline distance between the central offices serving the customer's locations. Rounding of fractional miles will be to the next highest increment. This method is set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 for Wire Center Information (V&H coordinates);
- (B) Use the billing percentage (BP) as determined by the companies involved which represents the portion of the service provided by each Company;
- (C) Multiply the number of airline miles, as set forth in (A) preceding, times the BP for each Company, as set forth in (B) preceding, times the Facility rate.

* Mileage rates are as set forth in the concurring company's rate schedule.

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.5 Multiple Company Billing (Cont'd)

17.5.3 Determination of Allocation for Fixed Mileage Based Charges, Non-Recurring and Recurring

NOTE: Unless otherwise specified in this tariff, recurring and non-recurring charges for Private Line Service will be determined as defined in (A) and (B) following.

(A) Non-Recurring Charges

Each company will bill an equal portion of non-recurring service and channel connection charges as appropriate. This is determined by dividing each non-recurring charge by the number of Companies jointly providing facilities in the circuit. The resulting amount will then be rounded up to the next cent. All other non-recurring charges are billed by the companies on each end of the jointly provided circuit.

(B) Recurring Charges

Each company will bill an equal portion of Interoffice Mileage Fixed Facility charges as determined by dividing the fixed facility charge by the number of Companies jointly providing the facilities in the circuit. All other recurring charges are billed according to the billing company's rate schedule.

Continued

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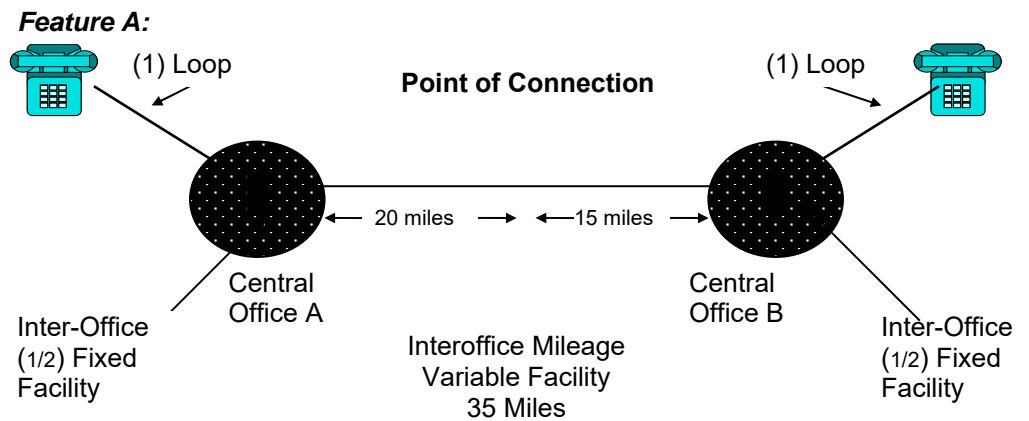
ACCESS SERVICE

17. Private Line Services (Cont'd)

17.5 Multiple Company Billing (Cont'd)

17.5.4 Meet Point Billing Illustrations

(A) *Figure A*, depicts a jointly provisioned Private Line Circuit between two companies. The subsequent chart, *Figure B*, demonstrates how the private line circuit charges are allocated.



Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.5 Multiple Company Billing (Cont'd)

17.5.4 Meet Point Billing Illustrations (Cont'd)

(A) (Cont'd)

Figure B: Non-Recurring Charges					
Qty	Description	Rate Element	Company A	Company B	Total
½	Service Charge (AGE)	\$56.00	\$28.00	\$28.00	\$56.00
1	C.O. Line Charge (AG9)	50.05	50.05	50.05	100.10
1	C.O. Charge (NRCCO)	159.00	159.00	159.00	318.00
1	Premise Visit (PVP)	19.00	19.00	19.00	38.00
½	Channel Connection (SEMVG)	711.81	355.91	355.91	711.82
Total Non-Recurring Charges			611.96	611.96	1223.92
Recurring Charges					
1	2-Wire Central Office Loop Charge (CON2X)	\$21.53	\$21.53	\$21.53	\$43.06
1	2-Wire Voice Functionality (PMWV2)	7.07	7.07	7.07	14.14
½	Interoffice Mileage Fixed Facility (1LN2S)	36.86	18.43	18.43	36.86
20	Interoffice Mileage Variable Facility (per mile)	12.67	253.40	----	253.40
15	Interoffice Mileage Variable Facility (per mile)	12.67	----	190.05	190.05
Total Recurring Charges			300.43	237.08	537.51

Continued

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Laurie A. Maffett
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 Rochester, NY 14646

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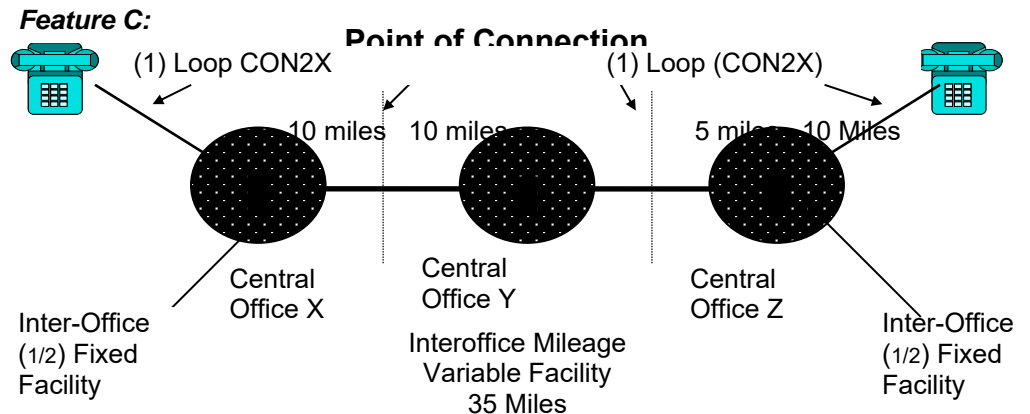
ACCESS SERVICE

17. Private Line Services (Cont'd)

17.5 Multiple Company Billing (Cont'd)

17.5.4 Meet Point Billing Illustrations (Cont'd)

(B) *Figure C*, depicts a multi-company Private Line Circuit between three companies. *Figure D* demonstrates how the private line circuit charges are allocated between the three companies.



Continued

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Laurie A. Maffett
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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.5 Multiple Company Billing (Cont'd)

17.5.4 Meet Point Billing Illustrations (Cont'd)

Figure D - Three Companies Billing

Non-Recurring Charges

Qty	Description	Element Rate	Company X	Company Y	Company Z	Total
_ /Co.	Service Charge (AGE)	\$ 56.00	\$ 18.67	\$ 18.67	\$ 18.67	\$ 56.01
1 /end	C.O. Line Charge (AG9)	50.05	50.05	----	50.05	100.10
1 /end	C.O. Charge (NRCCO)	159.00	159.00	----	159.00	318.00
1 /end	Premise Visit (PVP)	19.00	19.00	----	19.00	38.00
_ /Co.	Channel Connection (SEMVG)	711.81	237.27	237.27	237.27	711.81
Total Non-Recurring			483.99	255.94	483.99	1223.92

Recurring Charges

Qty	Description	Element Rate	Company X	Company Y	Company Z	Total
1 / end	2-Wire Central Office Loop Charges (CON2X)	\$ 21.53	\$ 21.53	---	\$ 21.53	\$ 43.06
1 / end	2-Wire Voice Functionality (PMWV2)	7.07	7.07	----	7.07	14.14
1/3 / Co.	Interoffice Mileage Fixed Facility (1LN2S)	36.86	12.29	12.29	12.29	36.87
each Co.'s BP Miles	Interoffice Mileage Variable Facility (per Mile)	12.67	10 miles 126.70	10 miles 126.70	15 miles 190.05	35 miles 443.45
Total Recurring Charges			167.59	138.99	230.94	537.52

Continued

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Laurie A. Maffett
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 180 S. Clinton Avenue
 Rochester, NY 14646

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage

17.6.1 General

Services to which mileage rates apply are furnished subject to the availability of facilities and the requirements of local exchange and toll service.

NOTE: For all measured distances contained herein, the rounding of fractional mileages will be to the next highest increment.

Note: When existing service provided under federal, interstate tariffs is ordered to be provided under this Section 17, a service charge as specified in the concurring company's rate schedule applies. In addition, other nonrecurring or service connection charges, as specified in paragraph 17 of this Section 17, may apply for any work performed by the Telephone Company necessitated by the application for service.

The mileage rates specified in the concurring company's rate schedule apply to lines and channels with a maximum of four terminations within one exchange and designed for operation and transmission as follows:

(A) Lines to Normal Central Offices

For voice communication to any other exchange station.

(B) Non-Adjacent Foreign Exchange Line

For voice communication to any other exchange station from any station located on the premises in which the foreign exchange line terminates, or from an off-premises extension station bridged in either the normal or foreign central office and located within the boundaries of either the normal or foreign central office building area.

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.1 General (Cont'd)

(C) Leased Channels

For signals between equipment furnished by subscriber as provided in Section 17.1.1(B) preceding.

(D) Access Channel

An Access Channel is a transmission path provided to connect:

- (1) An end user location and a location which serves as the point of connection for intra/interLATA facilities.
- (2) Two locations, both of which serve as points of connection for intra/interLATA facilities.
- (3) A Telephone Company central office and a location which serves as the point of connection for intra/interLATA facilities.

NOTE: The term "facilities" refers to other than Telephone Company facilities.

Continued

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180 S. Clinton Avenue
Rochester, NY 14646

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.2 Mileage on Lines Between Locations

(A) General

Mileage is applicable to the following lines:

Access Channels

Leased channels as defined in 17.6.1(C) preceding
Private Lines

The Telephone Company determines the type of plant to be used.

(B) Definition of Mileage Components

Central Office Loop Charge: Denotes the charge associated with that segment of a line which extends from the interface point on the subscriber's premises to the normal central office.

Interoffice Mileage Charge: denotes the charge associated with that segment of a line which extends between the originating and terminating central offices. The distance between central offices is measured airline by means of a mathematical formula based on the latitude and longitude of the central office buildings.

Multi-Loop Charge: this charge applies only to segments of leased channels used for alarm purposes when more than 50 such segments are furnished between the same premises of the subscriber and the normal central office or between the same premises of the patron of the subscriber and the patron's normal central office. This charge may also apply to segments of Access Channels.

Continued

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Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.2 Mileage on Lines Between Locations (Cont'd)

(C) Mileage Components

(1) Leased Channels for Alarm Signaling Purposes and segments of Access Channels

All applicable rates and charges specified in this section apply except as follows:

(a) Multi-Loop Charge

This charge applies only to segments of leased channels used for alarm purposes when more than 50 such segments are furnished between the same premises of the subscriber and the normal central office or between the same premises of the patron of the subscriber and the patron's normal central office.

This charge will also apply, at an Interexchange carrier's request, to the segments of Access Channels from the IC point of termination to its serving wiring center.

(b) Where duplex operation (requiring 4-wire facilities) or 4-wire facilities are requested by the subscriber or required by his equipment, the appropriate 4-wire mileage component rate applies.

(2) Interoffice mileage see 6.2(D) of this Section 17.

Continued

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180 S. Clinton Avenue
Rochester, NY 14646

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.2 Mileage on Lines Between Locations (Cont'd)

(C) Mileage Components (Cont'd)

(3) Installation Charges

An installation charge applies for the initial termination of each mileage circuit on the subscriber's premises or each alarm signaling circuit terminating on the patron's premises.

Where Central Office Loop or, at the premises of a patron, Multi-Loop Charges apply to the circuit, (USOC NRCCO). This charge will also apply for each Direct Inward Dial loop installed.

For all other mileage circuits (USOC NRCLF).

These charges are not applicable to Foreign Exchange Lines, Centrex-CO Off Premises Primary Station Lines, Intercept Lines, Group Channels, termination of an alarm circuit on the premises of an Alarm Company Central Station.

(4) Channel Connection Charge

A channel connection charge applies for the interoffice segment of a mileage circuit. These charges are not applicable to Group Channels, 1.5 Megabit/Sec or fiber optic 45 Megabit/Sec services (See 3.1.M and 3.1.N of this Section 17).

Continued

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Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.2 Mileage on Lines Between Locations (Cont'd)

(C) Mileage Components (Cont'd)

(5) Circuit Rearrangement Charges

A Circuit Rearrangement Charge will apply where a customer requests a rearrangement of service which does not require a physical change in interoffice facilities, however a redesign of the total facility is required.

The charge will apply to the interoffice segment of a circuit when there is a move of a termination of that circuit to another location within the same central office building area; or if the interoffice facilities associated with an existing circuit are reused in place for a new circuit of the same type for the same subscriber.

(6) Feature Functions

(a) Definition

Feature functions are transmission packages, connected to voice and data grade circuits, which provide the proper facility design parameters for these types of circuits. Signal grade circuits do not require feature functions.

(b) Rate Application

The feature function rates always apply in addition to central office loops (one per central office loop) for each feature function transmission package.

Continued

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.2 Mileage on Lines Between Locations (Cont'd)

(D) Lines between Points in Different Building Areas (Interoffice Mileage)

(1) General

Interoffice mileage applies to lines terminating in different building areas.

(2) Components of Charges

Charges for interoffice lines are determined on the basis of the following:

- (a) Interoffice mileage is measured airline between central office buildings. Such measurement is based upon latitude and longitude coordinates for each central office building.
- (b) Central Office Loop
- (c) Feature Function Charge
- (d) Multi-Loop Charge

Continued

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Rochester, NY 14646

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.2 Mileage on Lines Between Locations (Cont'd)

(D) Lines between Points in Different Building Areas (Interoffice Mileage) (Cont'd)

(3) Individual Case Billing Arrangements

The Telephone Company may, in response to competitive requests for proposal, develop a responsive individual case billing arrangement for interoffice mileage.

Prices quoted in response to such requests may be different from those in effect in this tariff but will be set at a level that is at least equal to the relevant incremental costs for the requested service. Relevant increments costs would include the appropriate Universal Service Element as specified in the concurring company's rate schedule. Such prices will also be available for similarly situated customers. Appropriate cost support will be submitted to the Commission.

An individual case billing arrangement price quote will be offered for acceptance in writing. Such individual case billing arrangements will specify, among other things, the length of service, minimum volume of service required, and the rates and charges for the proposed service.

Continued

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Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.2 Mileage on Lines Between Locations (Cont'd)

(D) Lines between Points in Different Building Areas (Interoffice Mileage) (Cont'd)

(4) Multi-Point Lines

The interoffice distance is determined by airline measurements between the central offices in the manner which joins all such points and produces the lowest total rate except as provided in 3.1 of this Section 17 for leased channels for data transmission and leased channels for alarm signaling purposes. The mileage rate for each segment of such measurements is computed separately.

(5) Temporary Service

Temporary service is furnished for a minimum period of one day at the following proportionate parts of the monthly rates specified in the concurring company's rate schedule:

(1) Interoffice mileage	
(2) Central office Loop	<u>Per Line</u>
1 to 7 consecutive days	1/2 Monthly Rate
Consecutive period of 8 days to 1 month	Monthly Rate

Continued

Issued: March 12, 2003

Laurie A. Maffett
Vice President Regulatory Affairs
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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.3 Mileage on Lines Between Subscriber Locations

(A) Group Channel Service

(1) General

Group channel service, consisting of a group of voice grade channels, is furnished to subscribers who require a number of channels between two or more service points. These channels may be used for telephone communication, for remote operation of mobile radiotelephone systems, for data transmission, or may be subdivided for remote metering, data transmission, supervisory control or alarm signaling purposes or may be used as a single broad band channel for the transmission of higher speed facsimile or data signals. Group channels are furnished under the following classifications:

<u>Classification</u>	<u>Equivalent Telephone Grade Channels</u>
Group A	12
Group B	24
Group C	60
Group D	240

The rules and regulations as set forth in this subdivision 17.6.3.A apply only to those channels and services which the subscriber has specifically ordered to be furnished as group channel service.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.3 Mileage on Lines Between Subscriber Locations (Cont'd)

(A) Group Channel Service (Cont'd)

(2) Regulations

Where group channels are furnished between more than two service points, the channels in each segment are grouped in the manner which produces the lowest charge except where the subscriber requests specific routings between the service points.

Equipment required to terminate channels for the purposes stated above will be provided by the subscriber. The subscriber may create additional channels to the extent permitted by 3.1 of this Section 17.

Interexchange channels connected to channels furnished by group channel services are subject to the interexchange mileage rates specified in the concurring company's rate schedule. The terminal charges specified in the concurring company's rate schedule apply for terminating the interexchange channel in an exchange.

When the use of group channel service is interrupted for two hours or more, a prorata allowance is made as specified in (2)c following, except that the allowance for the mileage charges for each two-point section of the group is determined as follows:

- (a) If less than 50% of the total equivalent telephone channels arranged for use in the section are interrupted, no allowance is made.
- (b) If 50% or more of the total equivalent telephone channels arranged for use in the section are interrupted, an allowance is made as though all the channels of the group channel were interrupted.

Continued

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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.3 Mileage on Lines Between Subscriber Locations (Cont'd)

(A) Group Channel Service (Cont'd)

(2) Regulations (Cont'd)

(c) Liability of Telephone Company for Service Interruptions

When, after notice by the subscriber to the Company of an interruption of service, service continues to be interrupted, a credit allowance will be given if the interruption continues for at least 24 hours, and will be given under certain circumstances, if it continues less than 24 hours. The allowance is equal to a portion of the Tariff monthly rate for all services and furnished by the Company that are rendered useless or substantially impaired. The allowance will apply as follows with respect to the period of interruption that continues after notice.

1) If interruption continues for more than 24 hours

- a) if the interruption is caused by storm, fire, flood or other condition out of the Company's control, 1/30th of such monthly rate for each 24 hours (or fraction thereof),
- b) for other interruptions, 1/30th of such rate for the first 24 hours and 2/30th of such rate for each additional 24 hours (or fraction thereof); however, if service is interrupted for over 24 hours, more than once in the same billing period, the 2/30th allowance applies to the first 24 hours of the second and subsequent interruptions.

Continued

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Citizens Telecommunications Company
180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.3 Mileage on Lines Between Subscriber Locations (Cont'd)

(A) Group Channel Service (Cont'd)

(2) Regulations (Cont'd)

(c) Liability of Telephone Company for Service Interruptions (Cont'd)

2) If interruption continues for less than 24 hours

- a) 1/30th of such monthly rate, if there was not a previous interruption of at least 24 hours in the same billing period,
- b) 2/30th of such monthly rate, if there was a previous interruption of at least 24 hours in the same billing period.

(3) Mileage Measurements

(a) Two Point Service

Interexchange mileage is measured airline between the rate centers of the exchanges in which the terminals of the line are located.

Continued

Issued: March 12, 2003

Laurie A. Maffett
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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.3 Mileage on Lines Between Subscriber Locations (Cont'd)

(A) Group Channel Service (Cont'd)

(3) Mileage Measurements (Cont'd)

(b) Multi-Point Service

The Interexchange mileage is measured airline between rate centers in a manner which joins all service points and produces the lowest total charge, except that where the subscriber requests specific routings between the service points, the interexchange mileage is measured airline between rate centers in the manner which joins all service points in accordance with the specific routings requested by the subscriber and except that where Data Schedule 4 leased channels and leased channels for alarm signaling purposes are furnished under the provisions of 3.1 of this Section 17, the interexchange line mileage is measured in accordance with said provisions of 3.1 of this Section 17. The mileage charge for each section of the group channel is computed separately.

Continued

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180 S. Clinton Avenue
Rochester, NY 14646

Effective: April 12, 2003

ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.3 Mileage on Lines Between Subscriber Locations (Cont'd)

(A) Group Channel Service (Cont'd)

(4) Rates and Charges (Cont'd)

(a) Channel Terminals

The Telephone Channel Terminal charges listed in the preceding schedule does not include a telephone instrument. Appropriate rates and charges for the telephone and network interface jack, if furnished, apply in addition to such Channel Terminal charges.

When the additional channel terminal is in the same building and on the same premises as the initial channel terminal, the appropriate rates and charges for the telephone and network interface jack shall apply in lieu of the rate specified in P.S.C. No. 1.

One channel terminal charge applies per non-key station, or key system or order equipment or demarcation point to customer-provided equipment.

A channel terminal is required for each connection of a channel or service to a station or for termination of a channel in a Telephone Company office in connection with the provision of foreign exchange service.

Where a channel switching arrangement is furnished, each station at the switching point requires a channel terminal for each of the services or channels to which it is connected and which can be operated as a separate service or channel.

Continued

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Laurie A. Maffett
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180 S. Clinton Avenue
Rochester, NY 14646

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.6 Mileage (Cont'd)

17.6.3 Mileage on Lines Between Subscriber Locations (Cont'd)

(A) Group Channel Service (Cont'd)

(4) Rates and Charges (Cont'd)

(a) Channel Terminals (Cont'd)

Telephone grade channel equivalents of channels developed by the channel terminals are as follows:

Type A2 channel terminals provide for the transmission of two level sequential non-synchronous facsimile signals with a minimum signal element of 20 microseconds, or sequential synchronous signals up to 50,000 bits per second and have a group channel equivalent of 12 telephone grade channels.

Type C2 channel terminals provide for the transmission of synchronous data signals at a rate of approximately 230,400 bits per second or non-synchronous signals with a minimum signal element of 4 micro-seconds and have a group channel equivalent of 60 telephone grade channels.

For all other grades of channels, each channel has a group channel equivalent of one telephone grade channel.

(b) Local Channel

Local Channel Rates and Charges are to apply only to Data Schedule 4 lines associated with central office Bridging Arrangements in Group Channel Service.

Where duplex operation (requiring 4-wire facilities) or 4-wire facilities are requested by the subscriber or required by his equipment, each termination is subject to two local channel or bridged terminal rates and charges.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.7 Connection, Restoral and Construction Charges

17.7.1 Service Connection Charges

(A) General

Service Connection Charges are non-recurring charges which apply to the ordering, installing, moving, changing, rearranging or furnishing of telephone service, miscellaneous and supplemental equipment and other telephone facilities. Charges for Service Connection include:

- (1) Service Charge or Record Order Charge
- (2) Premises Visit Charge
- (3) Central Office Line Charge or Line Change Charge

Any one, or combination of all elements may apply, depending upon the work functions performed to execute a customer's particular order.

(B) Regulations

(1) Service Charge or Record Order Charge

(a) Service Charge

A Service Charge applies per customer order, for all work or services ordered to be provided at one time, on the same premises for the same customer, provided, however, that no additional Service Charge shall apply for the connection of a line between different premises.

- 1) The Service Charge applies for work performed by the Telephone Company in connection with the receiving, recording and processing of customer requests for service.

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.7 Connection, Restoral and Construction Charges (Cont'd)

17.7.1 Service Connection Charges (Cont'd)

(B) Regulations (Cont'd)

(1) Service Charge or Record Order Charge (Cont'd)

(a) Service Charge (Cont'd)

- 2) The Service Charge applies for connections, moves, changes of equipment or service, changes of telephone number and wherever line or port, installation, connection, initial or other one time charges apply, except where otherwise specified.

(b) Record Order Charge

- 1) A Record Order Charge applies for work performed by the Telephone Company in connection with receiving, recording and processing of customer requests where only changes in Telephone Company records are involved.
- 2) A Record Order Charge shall also apply to connections or changes made by an installer or repairman, where work is completed at the time of a visit to a customer's premises where such visit is made at the Company's initiative or for maintenance reasons except as provided in (b)4. following. (No premises Visit Charge applies to such connections or changes. See (B)2 following.)
- 3) Record Order Charges apply to the following:
- Change of billing party

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.7 Connection, Restoral and Construction Charges (Cont'd)

17.7.1 Service Connection Charges (Cont'd)

(B) Regulations (Cont'd)

(1) Service Charge or Record Order Charge (Cont'd)

(b) Record Order Charge (Cont'd)

4) Regulations for Record Orders:

- A Record Order Charge does not apply to a record order place by the customer at the same time as an order to which the Service Charge applies
- One Record Order Charge applies for all records changed, if ordered at one time for the same customer at the same premises

Continued

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ACCESS SERVICE

17. Private Line Services (Cont'd)

17.7 Connection, Restoral and Construction Charges (Cont'd)

17.7.1 Service Connection Charges (Cont'd)

(B) Regulations (Cont'd)

(2) Central Office Line or Line Change Charge

(a) Central Office Line Charge

One Central Office Line Charge applies to connection of lines and mileage circuits for each Access Channel

(b) Line Change Charge

A Line Change Charge applies, per line, to each change in type, grade or class of service, to each change of telephone number of individual, auxiliary, and Centrex-CO lines and trunks and to each temporary suspension of business and residence service.

A Line Change Charge applies, per line, to provide Blocking Options 3 or 4 to PBX Service subscribers and to individual line or port business subscribers with three or more lines.

(3) Restoral Charges

(a) General

A restoral charge applies when service is reconnected after suspension or termination for non-payment but before cancellation of the service.

Continued

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ACCESS SERVICE

17. Private Line Service

17.8 Rates and Charges

17.8.1 Leased Channels

(A) Leased Channel for remote operation of mobile radio telephone of a mobile radio telephone system, remote metering, supervisory control or alarm signaling purposes:

	<u>Monthly Rate</u>	<u>Connection Charges</u>
Per Line:	Mileage Rate (See 17.8.2 following)	(See 17.8.2 and 17.8.4 following)

(B) Leased Channel for Remote Operation of a Mobile Radio Telephone System:

(1) For multiple appearances the following rates apply:

	<u>Monthly Rate</u>	<u>Installation Charge</u>	
First group of 5 terminals and associated wiring	\$10.18	\$32.99 per terminal	(l)
Each additional group of terminals and associated wiring	\$7.87	\$32.99 per terminal	(l)

Continued

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 21 West Avenue
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ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.1 Leased Channels (Cont'd)

(C) Leased Channels for Remote Metering, Supervisory Control and Alarm Signaling Purposes

- (1) Central Office Bridging Arrangements for telephone grade leased channels for alarm signaling purposes, each bridging arrangement:

<u>Monthly Rate</u>	<u>Installation Charge</u>	(D)
\$26.96 plus mileage rate specified in 17.8.2*	\$34.46	(I)(D) (T) (T)

(D) Leased Channels for Data Transmission

- (1) Channel Conditioning for Data Schedule 4 Channels and Access Channels:

- (a) Basic Data Conditioning, required on all Data Schedule 4 Channels and Access Channels providing Data Schedule 4 Service:

Per termination	<u>Monthly Rate</u>	<u>Installation Charge</u>	(D)
-2 Wire	\$5.37		(I)(D)
-4 Wire	\$13.40	\$37.45	(I)(D)

* For each individual 2-point circuit terminating in the bridging arrangement.

Continued

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Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.1 Leased Channels (Cont'd)

(D) Leased Channels for Data Transmission (Cont'd)

- (1) Channel conditioning for data schedule 4 channels and access channels (cont'd)
 - (b) Channel Conditioning for Data Schedule 4 Channels and Access Channels, to meet subscribers' specifications for transmission characteristics:

	<u>Monthly Rate</u>	<u>Installation Charge</u>	(D)
Type C1(Per terminal)	\$13.40	\$37.45	(I)(D)
Type C2(Per terminal)	13.40	93.57	
Type C4(Per terminal)	13.40	187.17	(I)(D)
Type C6--For conditioning channels between two points:			
- Within the same Central Office building area:			
2 wire	\$29.00	\$146.74	(I)(D)
4 wire	46.12	209.64	(I)(D)
- In different Central Office building areas:			
2 wire	\$33.03	\$146.74	(I)(D)
4 wire	58.01	209.64	(I)(D)

In addition, the applicable leased channel mileage charges as specified in 17.8.2 also apply.

Continued

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.1 Leased Channels (Cont'd)

(D) Leased Channels for Data Transmission (Cont'd)

(1) Channel Conditioning for Data Schedule 4 Channels and Access Channels (Cont'd)

	<u>Monthly Rate</u>	<u>Installation Charge</u>	(D)
Type D1-- For each termination	\$13.40	\$139.50	(I)(D)

(2) Bridging Arrangement in Central Office to Provide Multi-Point Data Schedule 4 Leased Channels

	<u>Monthly Rate</u>	<u>Installation Charge</u>	(D)
Each bridging arrangement has a capacity of 6 terminations			
-- Initial bridging arrangement	\$119.39	\$519.46	(I)(D)
-- Additional bridging arrangements on same multi-point channel, each (Limit of 2 additional)	119.39	519.46	(I)(D)

* The installation charge includes the connection of channels to the bridging arrangement at the time the bridging arrangement is installed. A charge of \$44.19 per channel applies for a subsequent connection or rearrangement of channels connected to the bridging arrangement.

Continued

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Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.1 Leased Channels (Cont'd)

	<u>Monthly Rate</u>	<u>Install'n Charges</u>	
(E) Alternate use of line facilities furnished with private line services, extensions and tie lines as channels for remote metering, supervisory control and alarm signaling purposes. -Telephone grade channel	\$2.92 per termination	See 17.8.4	(I)
(F) Alternate use of line facilities furnished with private, extension or the lines as channels for remote operation of a mobile radiotelephone system, each termination.	None	\$29.16	

* Not applicable when installed at the same time as an associated station.

Continued

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Senior Vice President Regulatory Affairs
Citizens Telecommunications Company
21 West Avenue
Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.1 Leased Channels (Cont'd)

(G) Voice Channels for Use with Subscriber Provided Intercommunicating Equipment

	<u>Monthly Rate</u>	<u>Connection Charges</u>	(D)
(1) Voice channels for use with subscriber provided intercommunicating equipment	Mileage Rate (See 17.8.2)	See 17.8.2 and 17.8.4	
Per Signaling Arrangement	\$20.93	\$61.31	(I)
Arrangement used for signal conversion from Contact Closure to DX Signaling modes on Leased Channel facilities when both ends terminate on customer-provided communications systems. (SLL)			
Per Signaling Arrangement	\$20.93	\$61.31	(I)

Continued

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Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.1 Leased Channels (Cont'd)

(G) (1) Voice Channels for Use with Subscriber Provided Intercommunicating Equipment (Cont'd)

Where a signaling arrangement and the interface point are either not in the same or adjacent rooms on the same floor or separated by more than 50 feet, special charges based on cost apply.

(H)	<u>Central Office Voice Grade Bridging</u>	<u>Monthly Rate</u>
	Central Office Voice Grade Bridging Arrangement for Four-wire Termination, -Per Port*	\$18.22

(I) 1.5 Megabit/Sec Service

(1) Monthly Rates**

(a)	Local Distribution Channel, each	<u>Monthly Rates</u>	<u>Non-Recurring Charge</u>	
(a)	Fixed	\$472.10	\$585.00	(I)
(b)	Per ¼ mile Or fraction Thereof	\$54.46	None	(I)

* Rates and charges for a voice grade channel apply. In addition, Service Connection Charges as specified in 17.8.4 of this Tariff apply.

** Minimum 3 months service period applies.

Continued

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Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.1 Leased Channels (Cont'd)

(I) 1.5 Megabit/Sec Service (Cont'd)

(1)	Monthly Rates (Cont'd)**	<u>Monthly Rates</u>	Non- <u>Recurring Charge</u>	
	(b) Interoffice Channel, each			
	(a) Fixed	\$149.25	\$525.00	
	(b) Per mile or fraction thereof	\$72.62	None	(I)
	(c) Central Office Multiplexing	\$507.43	None	
(2)	Optional Features and Functions	<u>Monthly Rates</u>	Non- <u>Recurring Charge</u>	
	(a) 1.544 Clear Channel Capability			
	(a) Initial Installation	None	None	
	(b) Subsequent Installation	None	\$947.88	

** Minimum 3 months service period applies.

NOTES:

- 1). Existing channels which are ordered to be connected to a central office multiplexer will be treated as a disconnect of existing service and connection of new service.
- 2). Existing loops connected to a Company provided central office multiplexing arrangement may be moved, on an out-of-service basis. A non-recurring charge of \$50.00 will apply for each loop.
- 3). A non-recurring charge of \$413.20 will apply to move an existing 1.5 megabit/sec channel to fiber optic 45 megabit/sec service.

Continued

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Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.1 Leased Channels (Cont'd)

(J) Optical 45 Megabit/Sec Service

(1) Monthly Rates

(a)	Local Distribution	<u>Non-Recurring Charge</u>			(Z)
		<u>Fixed</u>	<u>Per 1/4 Mile or Fraction thereof**</u>	<u>1st Channel</u>	<u>Each Add'l Channel</u>
	1st Channel	\$2,432.76	\$201.78	\$1,292.96	(I)(Z)
	2 nd & 3 rd Channels, each	\$2,432.76	\$201.78	\$887.02	(I)
	4 th thru 9 th Channel, each	\$1,864.45	\$154.02	\$887.02	(I)
	10 th and Over Channels, each	\$1,737.89	\$143.27	\$887.02	(I)(Z)

** Local channels are furnished to each customer's station location at a fixed rate plus the per 1/4 mile or fraction thereof rate.

NOTE:

A non-recurring charge of \$413.20 will apply to move an existing 1.5 megabit/sec. channel to 45 megabit/sec. service.

Continued

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Effective: November 25, 2019

Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.1 Leased Channels (Cont'd)

(J) Optical 45 Megabit/Sec Service (Cont'd)

(1) Monthly Rates (Cont'd)

(b) Interoffice Channel

Monthly Rate

Fixed

\$1,234.53

(I)

Per mile or fraction thereof

\$193.20

(I)

(c) Central Office Multiplexing

Monthly Rate

-Each Arrangement#

\$2,133.55

(I)(Z)

(Z)

Rates and charges for 1.5 megabit/sec. service, i.e., local distribution channel and where appropriate an interoffice channel apply.

Continued

Issued: October 23, 2019

Effective: November 25, 2019

Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.1 Leased Channels (Cont'd)

(K) High Voltage Protection Equipment

	<u>Monthly Rate</u>	<u>Non- Recurring Charge</u>	(Z) (D) (I)
Type 1 Class A & B 2 Wire	\$17.54	\$856.25	(I)
Type 2 Class A & B 2 Wire	14.03	570.49	
Type 2 Class A & B 2 Wire DCTRIP	17.54	1,271.15	
Type 2 Class A & B 4 Wire	21.05	1,433.86	
Type 2 Class A & B 4 Wire DCTRIP	29.24	2,781.27	
Type 3 Class A & B 2 Wire	11.70	393.55	
Type 3 Class A & B 4 Wire	17.54	1,030.13	
Type 4 Class A & B 2 Wire	11.70	393.55	
Type 4 Class A & B 4 Wire	17.54	1,030.13	
*Digital Data Service 2 Wire	11.70	78.96	
*Digital Data Service 4 Wire	17.54	1,200.98	(I)

* Digital Data Service will be provided with Class A protection.

Continued

Issued: October 23, 2019

Effective: November 25, 2019

Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.2 Mileage Components

(A) Central Office Loop*

	<u>Monthly Rates</u>	
Per 2-Wire Loop	\$37.65	(l)
Per 4-Wire Loop	\$71.02	(l)

(B) Installation Charge

	<u>Charges</u>
(1) Where Central Office Loop, or, at the premises of a patron, Multi-Loop charges apply to the circuit. (Also apply to each Direct Inward Dial Loop).	\$159.00
(2) All other mileage circuits not defined in (B)1.	100.25

* In addition, feature function rate elements (17.8.2.F) apply to all "other than signal grade" Central Office Loops.

Continued

Issued: June 15, 2023

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Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.2 Mileage Components

(C) Multi-Loop Charges Used for Alarm purposes

(Z)

Monthly Rate Per Loop

	<u>2-Wire</u>	<u>4-Wire</u>	(D)
(1) First fifty (50) Multi Loop Charge, each			
-1/4 mile or less	\$13.17	\$26.34	(I)(D)
-1/4 to 1/2 mile	\$13.17	\$26.34	
-over 1/2 mile	\$13.17	\$26.34	(I)(D)
(2) Segments in excess of 50, each			
-1/4 mile or less			
-1/4 to 1/2 mile	\$5.46	\$10.94	(I)(D)
-over 1/2 mile	\$6.30	\$13.31	
	\$8.92	\$17.84	(I)(D)

Continued

Issued: October 23, 2019

Effective: November 25, 2019

Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17 Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.2 Mileage Components

(D) Channel Connection*

A channel connection charge applies for the interoffice segment of a mileage circuit as follows:

	<u>Charge</u>	<u>USOC</u>
(1) For Signal Grade Circuits:		
- Per interoffice segment of 12 miles or less	\$271.59	SEMSL
- Per interoffice segment of more than 12 miles	277.39	SEMSM
(2) For Other than Signal Grade Circuits:		
- Per interoffice segment of 12 miles or less	473.32	SEMVL
- Per interoffice segment of more than 12 miles but not more than 25 miles	556.46	SEMVM
- Per interoffice segment greater than 25 miles	711.81	SEMVG

(E) Circuit Rearrangement

	<u>Charge</u>	<u>USOC</u>
Signal Grade Circuits	\$136.43	CRACS
other than Signal Grade Circuits	148.85	CRACO

* These charges are not applicable to Group Channels or DDS services.

Continued

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.2 Mileage Components (Cont'd)

(F) Feature Functions*

<u>Each package</u>	<u>Monthly Rate</u>	
Basic 2 Wire Voice Functionality	\$8.13	(D)
Basic 4 Wire Voice Functionality	\$22.99	(I)(D)
Type A PXOS Feature	\$14.69	
Type B PXOS Feature	\$14.69	
Type C PXOS Feature	\$7.56	
Basic 2 Wire Data Functionality	\$5.37	
Basic 4 Wire Data Functionality	\$13.40	
Enhanced 4 Wire Data Functionality:		
Type C-1	\$13.40	
Type C-2	\$13.40	
Type C-4	\$13.40	
Type D-1	\$13.40	(I)(D)

* The feature function rates always apply in addition to central office loops (one per central office loop) for each feature function transmission package.

NOTE:

The non-recurring charges associated with enhanced 4 Wire data functionality are specified in 17.8.1 preceding.

Continued

Issued: October 23, 2019

Effective: November 25, 2019

Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.2 Mileage Components (Cont'd)

(G) Group Channel Service

(1) Group Channels

Per Airline Mile or Fraction
 Thereof Per Month

Group A	\$120.24
Group B	\$239.22
Group C	\$598.07
Group D	\$2,392.26

(Z)

(D)

(I)(D)

(I)(D)

(2) Channel Terminals

	First termination of channel in an exchange		Additional terminations of same channel in same exchange, each		
	<u>Monthly Rate</u>	<u>Installation Charges</u>	<u>Monthly Rate</u>	<u>Installation Charge</u>	
Telephone Grade	\$179.39	\$414.39	\$41.64	\$136.16	(D)
Data Schedule 4	\$179.39	\$414.39	Not Quoted		(I)

Continued

Issued: October 23, 2019

Effective: November 25, 2019

Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.2 Mileage Components (Cont'd) (Z)

(G) Group Channel Service (Cont'd)

(3) Connecting Arrangements

	<u>Monthly Rate</u>	<u>Installation Charge</u>	
(a) Each connecting arrangement at the interconnection point of a channel service and an inter-exchange channel - Telephone grade	\$179.39	\$414.39	(D)
(b) Terminal charge for terminating an interexchange channel in an exchange First termination in an exchange - Telephone grade	\$41.64	\$414.39	(I)(D)
Each additional termination on same service and in same exchange	\$41.64	\$136.16	(I)(D)

Continued

Issued: October 23, 2019

Effective: November 25, 2019

Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.2 Mileage Components (Cont'd) (Z)

(G) Group Channel Service (Cont'd)

(4) Alternate Use Arrangements

- (a) Arrangement to permit alternate use of a Group A channel as either a single broad band channel or a group of channels.

Each terminal of a two
point section so
arranged:

Monthly
Rate

(T)
(T)

Group A

\$168.64

(I)(D)
(D)

Channel terminal charges as specified in 17.8.2.(G)(2) preceding apply for the channel terminals required for this type of operation.

- (b) Other alternate use arrangements are furnished for use with channels furnished by group channel service at charges which are the same as those specified in 17.3.1.

Continued

Issued: October 23, 2019

Effective: November 25, 2019

Senior Vice President Regulatory Affairs
Citizens Telecommunications Company
21 West Avenue
Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.2 Mileage Components (Cont'd) (Z)

(G) Group Channel Service (Cont'd)

(5) Interexchange Mileage (All Grades) Per Line:

	<u>Monthly Rate</u>	(D)
Up to 12 miles per mile	\$26.27	(I)(D)
Next 13 miles per mile	\$14.87	
Next 100 miles per mile	\$10.34	
Over 125 miles per mile	\$1.83	(I)

(6) Local Channel

Local Channel Rates and Charges are to apply only to Data Schedule 4 lines associated with central office Bridging Arrangements in Group Channel Service. (Z)
 |
 (Z)

	<u>Monthly Rate</u>	<u>Connection Charge</u>	(D)
Each Local Channel	\$41.64	\$17.84	(I)(D)(Z)

Continued

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.2 Mileage Components (Cont'd)

(H) Interoffice Mileage#

		<u>Monthly Rates</u>		
Signal Grade	<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per ¼ Mile or fraction thereof</u>	
	0 Miles	None	None	
	Over 0 to 12 Miles	\$117.91	\$1.20	
	<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per Mile or fraction thereof</u>	
	Over 12 Miles	\$17.91	\$4.77	
Voice Grade	<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per ¼ Mile or fraction thereof</u>	
	0 Miles	None	None	
	Over 0 to 12 Miles	\$42.39	\$5.55	(I)
	<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per Mile or fraction thereof</u>	
	Over 12 Miles	\$42.39	\$22.16	(I)

Interoffice Mileage charges apply to 2-wire and 4-wire (duplex) lines.

Continued

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Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.3 Digital Data Service

Monthly Rates

	<u>Month-to- Month</u>	<u>Non- Recurring Charge</u>	
(A) <u>Establishment of Channel Termination, Per Station</u>			
(1) For Transmission Speed of: 2.4, 4.8, 9.6, 19.2 or 56 kbps	\$130.97	\$300.00	(I)
(2) Change of Speed on Existing Channel Termination		\$150.00	
(B) <u>Interoffice Channel, Each</u>			
(1) Fixed For Transmission Speed of: 2.4, 4.8, 9.6, 19.2 or 56 kbps	\$35.11		
(2) Per Airline Mile For Transmission Speed of: 2.4, 4.8, 9.6, 19.2 or 56 kbps	\$5.65		

Continued

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Senior Vice President Regulatory Affairs
 Citizens Telecommunications Company
 21 West Avenue
 Spencerport, NY 14559

ACCESS SERVICE

17. Private Line Service (Cont'd)

17.8 Rates and Charges (Cont'd)

17.8.4 Connection, Restoral and Construction Charges

(A) Service Connection

	<u>Charge</u>
(1) Service Charge/Record Order Charge Subsequent	\$44.15 21.80
(2) Central Office Line Charge or Line Change Charge	10.90
(3) Restoral Charge	50.00

(B) Premium Installation Service

The following nonrecurring charges are applied per two-point circuit for each day by which the standard interval is shortened at the customer's request. Each segment of a multi-point circuit is considered a two-point circuit for the application of these charges.

	<u>Per Diem, per Circuit</u>
Premium Installation Charge:	
- Digital Data Service All Terminations	\$ 25.96
- Voice and Data Interoffice	103.82

NOTE:

The premium installation charge applies in addition to all standard installation and service connection charges.

Continued

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