

1. CHANNELS**1.1 General****1.1.1 Classification of Channels****Analog Channels**

Facilities consisting of channels, channel terminals and channel arrangements are classified by series and further classified within each series by types. The various series and types are described in terms of circuit characteristics and use.

Digital Channels

Facilities consisting of channels employing isochronous transmission at a speed of 1.544 Mbps.

Facilities consisting of channel terminations employing synchronous speeds of 2.4, 4.8, 9.6 and 56 Kilobits (Kbps) per second.

1.1.2 Mileage Measurement

- A. Reserved (C)
- B. Mileage for a Type 1002AA channel is determined as set forth in 1.2.4.D.
- C. Interexchange Channel

The interexchange mileage for Series 1000, 2000 and 3000 channels is determined as follows:

1. Two Point Service

The rate mileage is the airline distance between the rate centers of the service points determined in accordance with the Mileage Calculation Using V & H Coordinates procedure set forth in Part 15, Section 1. Rate center V & H coordinates are contained in Part 9, Section 2.

1. CHANNELS (cont'd)

1.1 General (cont'd)

1.1.2 Mileage Measurement (cont'd)

C. Interexchange Channel (cont'd)

2. Multipoint Service

- a. For connection of customer-provided terminal equipment or communications systems, the rate mileage is the combination, specified by the customer, of two point mileages determined in the same manner as for two point services.
- b. All others

The rate mileage is the sum of two point mileages determined in the same manner as for two point services using the shortest continuous airline measurement connecting the rate centers.

3. Each interexchange channel connected to a switching arrangement is considered as a separate channel for which the interexchange mileage is independently computed.

1. CHANNELS (cont'd)**1.1 General (cont'd)****1.1.2 Mileage Measurement (cont'd)****D. Interoffice Channels - Series 1000, 2000 and 3000**

1. The interoffice rate mileage is the airline distance between central offices (wire centers) of the service points determined in accordance with the Mileage Calculation Using V & H Coordinates procedure set forth in Part 15, Section 1. Central office/wire center V & H coordinates are set forth in the National Exchange Carrier Association (NECA) Tariff FCC No. 4.
2. Where service points are located in more than two central office areas, the interoffice rate mileage is the sum of the two point interoffice rate mileages using the shortest continuous airline measurement connecting the central offices.

E. Local Channels - Series 1000, 2000 and 3000

1. For a local channel, a local channel charge applies in lieu of mileage, except as set forth in 2 following, and such charge is set forth in 1.2.4.B following.
2. For a local channel associated with an interexchange channel for a Type 1002AA channel, mileage is determined as set forth in 1.2.4.D.

F. Local Channel - High Capacity Transport Service

Local Channel Mileage is the airline distance between the customer's premises and the serving central office.

G. Interoffice Channel - High Capacity Transport Service

Interoffice Channel Mileage is the airline distance between central offices.

H. Channel Mileage - Basic Digital Service

Channel mileage is the airline distance between central offices.

I. Channel Mileage - Direct Digital Service

Channel mileage is the airline distance from the DDS hub to the serving central office.

1. CHANNELS (cont'd)

1.1 General (cont'd)

1.1.3 Continuous property locations

- A. Buildings located on separate plots of ground and occupied by various customers shall be treated as being on continuous property, when such plots are situated so as to constitute continuous property were they occupied by a single customer. In such cases, conduit shall be provided and maintained in its entirety between buildings by the customer or another person, such as a building owner, contractor, etc.
- B. Whenever the Company's general distributing plant is used by the customer to connect terminations or stations within a building or on the same continuous property the stations or terminations are considered to be on non-continuous property for purposes of rate and charge applications.

1.1.4 Joint Use Arrangement

- A. Joint use arrangements are offered in connection with private line services furnished on a twenty-four hour per day, seven day per week basis for private line voice, teletypewriter, data transmission or remote metering, supervisory control and miscellaneous signaling purposes under the provisions of 1.2.1 through 1.2.4 for
 - 1. Series 1000 channels and equipment (except Type 1002AA)
 - 2. Series 2000 channels and equipment
 - 3. Series 3000 channels and equipment

Joint use arrangements are not offered in connection with such private line services when those services are furnished for use in connection with composite data service.

- B. A joint user of a private line service must have a local channel and station on such service located on his premises, except that such requirement does not apply to a joint user of private line service with respect to his use of additional channels created by the customer from the private line in accordance with 2.2.5.B, provided such joint user has a station on a channel connected under the provisions of Part 2, Section 9 of P.U.C.O. Tariff No. 20 to the additional channel created by the customer.
- C. The customer shall be solely responsible for the manner in which the joint use of the service will be allocated. Applications for service and requests involving additions, rearrangements, relocations, modifications or discontinuance of service will be accepted by the Company only from the customer.

1. CHANNELS (cont'd)**1.1 General (cont'd)****1.1.4 Joint Use Arrangement (cont'd)**

D. Where a customer requests that his service be arranged for joint use, the rates and charges for such service shall be determined as provided in this Guidebook (and P.U.C.O. Tariff No. 20) and, in addition, the following monthly rates will apply:

	<u>Monthly Rate</u>	<u>USOC</u>
Each service arranged for joint use, per joint user	\$16.75	JNP
Each local channel used to meet the communications requirements of a joint user	22.20	JNS

E. All charges for the service, including the additional charges for the joint use arrangement and for local channels furnished for the joint users as part of the private line service, will be computed as though the service were to be billed to the customer. The customer and each joint user will be billed for the components of the service which are furnished exclusively to each of them for his individual use. The charges for components of the service which are jointly used will be allocated for billing purposes in accordance with percentages of use specified by the customer. The specified percentages shall remain in effect for a minimum of one month and such percentages on file on the first day of the customer's billing cycle will be used in computing that month's billing. Without affecting the customer's ultimate responsibility for payment of all charges for the service, each joint user shall be responsible for the payment of the charges billed to him in accordance with this sub-paragraph.

1. CHANNELS (cont'd)**1.1 General (cont'd)****1.1.5 Customer Operating Center Service****A. Description of Service**

1. Customers who utilize large quantities of channels between their premises and their normal serving central office (i.e., local channels) in connection with burglar alarm channels which terminate at such customer's premises may optionally subscribe to Customer Operating Center (COC) Service. COC Service is an arrangement under which the Company will provide dedicated complements of cable pairs between the customer's premises and the normal serving central office, and will charge for such dedicated complements of cable pairs under the provisions of Paragraph 1.1.5.B.1 and 2 in lieu of local loop charges in Paragraph 1.2.4 of this Guidebook. In addition, the COC customer will be billed for the appropriate Service Area Function and S&E charges as specified in B.3 following for each local channel activated.
2. The customer of COC Service will also be billed for all patron's lines connected through the COC which includes local channels and interoffice mileage, where applicable, between the patron's premises and their normal serving central office at the rates specified in Paragraph 1.1.5.B.4 of this Guidebook.
3. The rates and charges in B.2 following for each complement of cable pairs are based on the specific quantity, size and length of cable dedicated to the customer's use.
 - a. At the time COC Service is initially requested, the customer is responsible for furnishing to the Company an estimate of the number of dedicated cable pairs which will be required. The rates specified in B. following apply for each dedicated cable pair, whether activated or not.
 - b. Complements are available in 100, 200, 300, 600, 900 or 1200 pair sizes.
 - c. Length is measured in one quarter mile increments from the customer's premises to the normal serving central office. The maximum length which will be furnished under the provisions of 1.1.5. is one mile.
 - d. Type 1001, 1102, 3001, 3002 and 3041 local channels may be activated for COC Service.
4. Provided no physical modification of circuits is required for existing burglar alarm customers that convert to COC Service, the S&E charge to convert to COC Service as specified in Section 1 preceding will be waived.

1. CHANNELS (cont'd)

1.1 General (cont'd)

1.1.5 Customer Operating Center Service (cont'd)

B. Rates and Charges

Nonrecurring Charge

1. To establish and to convert to or from COC Service \$56.00

2. Each dedicated complement of cable pairs

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	<u>USOC</u>
(a) Within 1/4 mile			
100 pair cable	\$470.00	\$4,718.00	1LZ1A
200 pair cable	611.00	6,121.00	1LZ2A
3. In addition to the rates and charges in 1 and 2 preceding, the following rates and charges apply to activate each local channel within the dedicated complement of cable pairs from the normal serving central office to the customer's premises:			
a. The monthly rate as specified in Paragraph 1.2.4.A following for the appropriate Service Area Function.			
4. In addition to the rates for the appropriate dedicated complements of cable pairs as covered in 1, 2 and 3 preceding, the following rates and charges apply to activate each local channel from the normal serving central office to the patron's premises:			
a. The S&E charges specified in Section 1 preceding.			
b. The monthly rates specified in Paragraph 1.2.4.A following for the local loop and the appropriate Service Area Function and the interoffice mileage, if applicable.			

1. CHANNELS (cont'd)**1.2 Classification and Rates**

1.2.1 Series 1000 Channels

A. Types and Description

Series 1000 channels are unconditioned channels capable of transmitting signals at rates up to 150 bauds. These channels are furnished for half-duplex or duplex operation. Duplex service is furnished on an entire channel, or on a portion thereof, where facility conditions permit.

The transmission characteristics and the various types of services furnished within this series are as follows:

1. Type 1001 - Transmission of frequencies of up to 15 Hertz or impulses per second for remote metering, supervisory control and miscellaneous signaling purposes.
2. Type 1102 - Transmission up to 30 baud, for remote metering, supervisory control, and miscellaneous signaling purposes; for local service area multipoint service and interexchange two-point or multipoint service.
3. Type 1002A - Transmission of miscellaneous signaling frequencies up to 60 Hertz per second for remote metering, supervisory control and miscellaneous signaling purposes.
4. Type 1002AA - Special - similar in transmission characteristics of Type 1002A to be used only for Civil Air Defense Warning Systems.
5. Type 1002B - Transmission up to 45 bauds for teletypewriter or data purposes.
6. Type 1002C - Transmission up to 55 bauds for teletypewriter or data purposes.
7. Type 1005 - Transmission up to 75 bauds for teletypewriter or data purposes.
8. Type 1006 - Transmission up to 150 bauds for teletypewriter or data purposes.

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)**

1.2.1 Series 1000 Channels (cont'd)

B. Regulations

In addition to the regulations set forth in 2., the following regulations apply to Series 1000 channels.

1. Types 1001, 1002A and 1102
 - a. These channels may be used for such purposes as indicating readings of meters at distant locations, operating switches which in turn perform some desired operation, or operating special signaling devices of the customer.
 - (1) Channel facilities of the types available in the telephone plant are furnished for this service.
 - (2) Channels of similar grade furnished by the Company for these purposes may be interconnected by the customer on his premises. When such interconnection is made, the Company's responsibility is limited to providing and maintaining satisfactory transmission capabilities only between the terminal points of each individual channel which it furnishes.
 - (3) These channels may be used by the customer, in accordance with the normal transmission characteristics of such channels, to transmit more than one signal in sequence or simultaneously except when used in connection with private land radiotelephone stations established for communication with mobile units. The use of these channels is available on two point services; such use on a multipoint service is available only where facility conditions permit.
 - (4) All equipment and facilities at station locations, other than equipment necessary for suitably terminating the channel facilities on the premises of or within the building occupied by the customer or authorized user, shall be provided by the customer except that upon the customer's request, the Company will furnish at station locations, signaling and selective equipment and facilities of the kind ordinarily furnished by the Company for use with channels for remote metering, supervisory control or miscellaneous signaling purposes.
 - (5) The rates and charges specified for channels contemplate the furnishing of normal facilities suitable for the transmission of frequencies within the range specified; where channel facilities of a different type than would normally be furnished are required by the customer for reasons other than the basic frequency requirements, the rates or charges based upon costs incurred apply for such channels.

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)****1.2.1 Series 1000 Channels (cont'd)****B. Regulations (cont'd)**

1. Types 1001, 1002A and 1102 (cont'd)
 - b. Local service area channels are furnished on a half-duplex basis only. However, where the customer desires grounded channel facilities, the Company will undertake, if possible, to make such channels available by subdividing a metallic channel to create two grounded channels.
 - c. These channels are furnished on a twenty-four hour per day, seven day per week basis only.
 - d. Where these channels are furnished between equipment at airports and equipment used in providing flying aids for air navigation, such as radiotelephone and radiotelegraph stations, markers, beacons, etc., and the location of the latter equipment is in the same LATA and is in an exchange area contiguous to the exchange area in which the airport is located and is not more than five airline miles from the location of the equipment at the airport, the rates for local service area channels apply for the portion of the channel furnished by the Company. Where construction is required in connection with such channels, the same rates and regulations as apply in connection with channels confined to a single exchange area are applicable.
 - e. Multipoint service for Type 1102 channels is limited to a maximum of 26 points served from a total of no more than 3 different serving central offices and may be further limited by the transmission distance limitations of customer-provided terminal equipment.
2. Types 1001, 1002A, 1002B, 1002C, 1005, 1006 and 1102

For Types 1001, 1002A and 1102 channels, in addition to the regulations set forth in 1. preceding, the following regulations apply. These regulations are also applicable to Types 1002B, 1002C, 1005 and 1006 channels:

- a. Channels, including channels created by the customer, may not be connected with other private line services or, except as set forth in Part 2, Section 9 of P.U.C.O. Tariff No. 20, with the exchange or toll network.
- b. In those cases where conditions are encountered that involve abnormal costs in deriving the channel, additional rates or charges based upon costs incurred apply.

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)**

1.2.1 Series 1000 Channels (cont'd)

B. Regulations (cont'd)

3. Type 1002AA

These channels are furnished between the control station and the receiving stations of a customer's Civil Air Defense Warning System and may not be directly or indirectly connected with any other facilities of the Company nor with other customer-provided equipment or facilities.

4. Types 1002B, 1002C, 1005 and 1006

a. Where a station of an intrastate interexchange private line teletypewriter service furnished by the Company or of an interstate service furnished by the Company or furnished under contract with a Bell Company is located in an exchange area of a connecting company, the Company will furnish private line teletypewriter service between points within such exchange area if one of such points is in the building or on the continuous property where the station of the interexchange service is located, and provided satisfactory arrangements can be made with the connecting company involved.

(1) Where the stations are on non-continuous property, the charges of the connecting company involved apply.

b. Switching Arrangements for Teletypewriter Service

(1) Switching arrangements are provided to permit the customer to connect two or more separate interexchange channels to form through two point or multipoint connections. Such arrangements will be furnished where facility conditions permit at rates and charges based upon costs incurred.

Note: Each interexchange channel connected to a switching arrangement is priced as a separate service but remains as an integral part of customer's network.

(2) When duplex service is furnished on a portion of an interexchange channel, switching arrangements are required at the junction points of the half-duplex and duplex sections and are charged for as provided in (1) above.

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)****1.2.1 Series 1000 Channels (cont'd)****B. Regulations (cont'd)****5. Type 1006**

- a. Station arrangements are required for stations or terminations on a Type 1006 channel when such stations or terminations are located on different premises (i.e., in same building or on same or non-continuous property). The monthly rates for these arrangements are set forth in 1.2.4 following.
- b. Transmission between only two stations at the same time is normally contemplated, however, arrangements may be made to provide for transmission between more than two stations at the same time, for which special equipment and arrangements are furnished at rates or charges based upon costs incurred.

1.2.2 Series 2000 Channels**A. Types and Description**

This series is furnished for voice transmission within the approximate bandwidth of 300-3000 Hertz and is provided in the following types:

1. Type 2001 - Furnished primarily for intercommunication for one customer, or for two or more customers.
2. Type 2002 - Furnished in connection with remote operation of private mobile radiotelephone systems.

May also be used for combined voice transmission and control purposes.

3. Type 2013 - Furnished for PBX or similar off-premise main station use.
4. Type 2014 - Furnished as a two-wire interface with effective two-wire facilities furnished for PBX (or similar) off-premises main stations capable of operating over loops with resistance up to 1300 ohms with Signaling Arrangements as specified in 1.2.2.B.8.
5. Type 202 - Furnished for tie line use between PBX's (or similar) systems.
6. Type 2021 - Furnished as a two-wire or four-wire transmission interface with four-wire facilities for tie line use between PBX's (or similar) systems with Signaling Arrangement as specified in Section 1.2.2.B.7 following.

1. CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.2 Series 2000 Channels (cont'd)

- A. Types and Description (cont'd)
 - 7. Type 2024 - Furnished for tie line use between a PBX (or similar) systems and a Centrex central office system.
 - 8. Type 2025 - Furnished as a two-wire or four-wire transmission interface with four-wire facilities for tie line use between a PBX (or similar) systems and a Centrex CO; with Signaling Arrangement as specified in Paragraph 1.2.2.B.8 following.
 - 9. Type 2026 - Furnished for tie line use in connection with Centrex.
- B. Regulations

In addition to the general regulations set forth in Section 1, preceding, the following regulations apply to Series 2000 channels:

- 1. General
 - a. Series 2000 channels are furnished for half-duplex operation.
 - b. Communicating between only two stations at the same time is contemplated with Series 2000 channels; however, to permit communication for more than two stations at the same time, special equipment and arrangements may be furnished at rates and charges based on costs incurred.
- 2. Type 2001
 - a. Terminations of Type 2001 channels can be in facilities provided by the Company or by the customer or in equipment provided by the customer.

Where stations are not permanently connected to an interexchange service, it is contemplated that they be located on the same premises or continuous property as the equipment on which service is terminated.

1. CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.2 Series 2000 Channels (cont'd)

B. Regulations (cont'd)

2. Type 2001 (cont'd)

b. Signaling

(1) Signaling on a two point interexchange service may be arranged for ring-down operation; automatic ringing; dial signaling; automatic signaling; key signaling; a combination of one-way magneto signaling - one-way key signaling or one-way key signaling - one-way automatic signaling.

Signaling on a multipoint interexchange service is arranged for magneto or key operation, or a combination thereof.

(2) Signaling on channels confined to a local service area may be arranged for magneto signaling; key signaling; one-way magneto - one-way key signaling; automatic signaling; and one-way key - one-way automatic signaling.

c. The connection of Type 2001 channels at any one point but not simultaneously at more than one point, with exchange service is permitted, subject to the following conditions:

(1) The Company will not warrant that standard operation and transmission can be obtained when such connections are established. When standard operation and transmission would normally not be obtained and the necessary facilities to do so can be provided, the Company will, upon the request of the customer, provide the necessary equipment and facilities at additional rates and charges based upon costs incurred.

(2) Connections to exchange service, in situations involving two or more telephone companies, will be made only with the concurrence of all of the telephone companies participating in the provision of the service.

d. Channel facilities for Homebound-Student School service are furnished for an intercommunicating service designed for two-way communication for instruction to students who are unable to attend school.

Channel facilities are provided at rates and charges specified for local service area channels on a twenty-four hour per day, seven day per week basis only.

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)****1.2.2 Series 2000 Channels (cont'd)****B. Regulations (cont'd)****3. Type 2002**

- a. These channels furnished for voice transmission or for combined voice transmission and control purposes may be interconnected at the customer's private land radiotelephone station with channels of the customer established for communication with mobile units.
- b. Type 2002 channels, in addition to being used in accordance with the normal characteristics for combined voice transmission and control purposes, may be used by the customer to transmit more than one signal alternately or simultaneously or to create additional channels for remote metering, supervisory control and miscellaneous signaling purposes. The use of these channels is available on two point services; such use on a multipoint service is available only where facility conditions permit.
- c. All equipment and facilities at station locations, other than equipment necessary for suitably terminating the channel facilities on the premises of or within the building occupied by the customer or authorized user, shall be provided by the customer.
- d. Channels, including channels created by the customer, may not be connected with other private line services or with the exchange or toll network.

4. Types 2013 and 2014

These channels are furnished to connect the customer's off-premises PBX stations located outside the local service area of such customer's serving PBX system, subject to the following:

- a. Off-premises stations located on other premises of the same customer may be used for communication with other stations directly connected to the PBX system and located on the same premises as the PBX attendant position. Off-premises station lines may also be used in connection with trunk lines, tie lines, other off-premises station lines or private lines, subject to the condition that the Company does not warrant that standard operation and transmission can be obtained when such connections are established.

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)**

1.2.2 Series 2000 Channels (cont'd)

B. Regulations (cont'd)

4. Types 2013 and 2014 (cont'd)

a. (cont'd)

In cases where standard operation and transmission would normally not be obtained, the Company will, if the necessary facilities and equipment are available to furnish standard operation and transmission, provide these facilities and equipment at additional rates and charges based on costs incurred.

b. Channels to connect off-premises stations located on premises of someone other than the customer are furnished with the understanding that such stations will be used only for communication with other stations directly connected to the PBX system and located on the same premises as the attendant position and ordinarily only on condition that separate exchange service is also furnished at the same off-premises location.

5. Types 2020 and 2021

These channels are furnished as tie lines to connect PBX (or similar) systems of the same or different customers on different premises, subject to the following:

a. Tie lines connecting systems which are located on two different premises of the customer are furnished for communication between stations directly connected to and located on the same premises as the dial switching equipment of PBX attendant positions involved. Tie lines may be used in connection with PBX trunk lines, off-premises station lines, other tie lines, or interexchange private lines, subject to the condition that the Company does not warrant that standard operation and transmission can be obtained when such connections are established.

In cases where standard operation and transmission would normally not be obtained, the Company will, if the necessary facilities and equipment are available to furnish standard operation and transmission, provide these facilities and equipment at additional rates and charges based on cost incurred.

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)**

1.2.2 Series 2000 Channels (cont'd)

B. Regulations (cont'd)

5. Types 2020 and 2021 (cont'd)

- b. Tie lines connecting PBX systems of different customers are furnished with the understanding that such tie lines are to be used only for communication between stations directly connected to and located on the same premises as the dial switching equipment or PBX attendant positions involved. Such tie lines are provided only if each of the PBX systems involved is connected to the central office by PBX trunk lines.

6. Types 2024, 2025 and 2026

These channels are furnished as tie lines to connect PBX (or similar) systems and Centrex CO services or in connection with Centrex CO service as described in 1.2.2.A preceding. Such channels are subject to the provisions in 5. above and the "Tie Line" provisions in Part 5, Section 1 of this Guidebook.

7. Signaling Arrangements

- a. The following Signaling Arrangements are furnished for registered and grandfathered PBX (or similar) systems in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations.

- (1) Signaling Arrangements for use with Type 2014 channel which connect off-property stations of PBX (or similar) systems;

Type A - Furnished for use with Class A PBX (or similar) station ports capable of operation over loops with resistance in the range of 0-199 ohms.

Type B - Furnished for use with Class B PBX (or similar) station ports capable of operation over loops with resistance in the range of 200-899 ohms.

Type C - Furnished for use with Class C PBX (or similar) station ports capable of operation over loops with resistance in the range of 900 ohms or more.

- (2) Signaling Arrangements for use with Type 2021 and 2025 channels furnished as PBX to PBX or PBX to Centrex CO tie lines with E and M signaling interfaces.

1. CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.2 Series 2000 Channels (cont'd)

B. Regulations (cont'd)

7. Signaling Arrangements (cont'd)

- b. The following regulations apply to the Signaling Arrangements for off-property stations as described in a-(1) preceding.
 - (1) For new connections of off-property stations to registered PBX (or similar) systems, the customer must specify the equipment capability, i.e., Type A, B or C port, of the system.
 - (2) Customers with grandfathered PBX (or similar) systems may either
 - (a) continue to provide their own off-property station signaling capability and utilize only Company-provided channels, or
 - (b) specify the equipment capability of their system and request the Company to provide the Signaling Arrangement.
- c. The following regulations apply to the Signaling Arrangement for tie lines as described in a-(2) preceding.
 - (1) An E and M Signaling Arrangement is required for each dial repeating tie line termination in a registered PBX (or similar) system.
 - (2) An E and M Signaling Arrangement is required for each tie line termination in a grandfathered PBX (or similar) system only when the tie line is arranged with an E and M signaling interface.

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)**

1.2.3 Series 3000 Channels

A. Types and Description

1. The following Series 3000 channels which are designed to meet certain specifications based upon Company standards of measurement for the various purposes set forth below, are furnished within the approximate bandwidth of 300-3000 Hertz for half duplex or duplex operation. Duplex service, however, which may be furnished either on an entire channel or on a portion thereof, is available only where facility conditions permit.
 - a. Type 3001 - Furnished for remote metering, supervisory control and miscellaneous signaling purposes.
 - b. Type 3002 - Furnished for data transmission.
2. The following Series 3000 channels known as Local Area Data Channels are suitable for baseband transmission of digital data signals between two stations within the same serving central office area, and are offered only for balanced transmission of data signals conforming to the signal power limitations and other parameters specified in the applicable Bell System Technical Reference(s). Service is limited to stations that are not more than six route miles apart, as determined by the Company, using normal cable routing between the stations to be served. The Local Area Data Channels available are of the following types.
 - a. Type 3080 - Two-wire facilities^{/1/}
 - b. Type 3081 - Four-wire facilities^{/1/}

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/1/ Effective April 15, 2014, Local Area Data Channels, types 3080 and 3081, will no longer be available to new customers. Existing customers may keep the service, subject to withdrawal, but will no longer be able to add/remove features, make changes (including upgrades or downgrades of access/port speed), install new service, or move the service to a different service address or location.

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)****1.2.3 Series 3000 Channels (cont'd)****B. Regulations**

In addition to the regulations set forth in Section 1 preceding, the following regulations apply to Series 3000 channels:

1. General

- a. Channels including channels created by the customer may not be connected with other private line services or with the exchange or toll network.
- b. In those cases where conditions are encountered that involve abnormal costs in deriving the channel, additional rates or charges based upon costs incurred apply.

2. Type 3001 and 3002

- a. These channels are not suitable for the transmission of direct current pulses.
- b. The number of stations that may be connected and the distance over which satisfactory transmission is possible may be limited by operating and transmission factors on channels furnished for data transmission.

3. Type 3001

- a. These channels are furnished for such purposes as reading meters at distant locations, operating switches which in turn perform some desired operation, or operating special signaling devices of the customer.
 - (1) Channel facilities of the types available in the telephone plant are furnished for this service.
 - (2) Channels of similar grade furnished by the Company for these purposes may be interconnected by the customer of his premises. When such interconnection is made, the Company's responsibility is limited to providing and maintaining satisfactory transmission capabilities only between the terminal points of each individual channel which it furnishes.

1. CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.3 Series 3000 Channels (cont'd)

B. Regulations (cont'd')

3. Type 3001 (cont'd)

a. (cont'd)

- (3) All equipment and facilities at station locations, other than equipment necessary for suitable termination of the channel facilities on the premises of or within the building occupied by the customer or authorized user, shall be provided by the customer except that upon the customer's request, the Company will furnish at station locations, signaling and selective equipment and facilities of the kind ordinarily furnished by the Company for use with channels for remote metering, supervisory control or miscellaneous signaling purposes.
- (4) The rates and charges specified for channels contemplate the furnishing of normal facilities suitable for the transmission of frequencies within the range specified. Where channel facilities of a different type than would normally be furnished are required by the customer for reasons other than the basic frequency requirements, the rates or charges based upon costs incurred apply for such channels.

b. Where Type 3001 channels are furnished between equipment at airports and equipment used in providing flying aids for air navigation, such as radio telephone and radiotelegraph stations, marker beacons etc., and the location of the latter equipment (1) is in the same LATA and in an exchange area contiguous to the exchange area in which the airport is located, and (2) is not more than five airline miles from the location of the equipment at the airport, the rates for local service area channels apply for the portion of the channel furnished by the Company. Where construction is required in connection with such channels, the same rates and regulations as apply in connection with channels confined to a single exchange area are applicable.

4. Type 3002

Data sets are required to condition signals generated by apparatus furnished by the customer to signals suitable for transmission on a channel and to condition signals received from such a channel to signals for delivery to apparatus furnished by the customer.

1. CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.3 Series 3000 Channels (cont'd)

B. Regulations (cont'd)

5. Local Area Data Channels (Type 3080, 3081)^{/1/}

(C)

- a. These channels require the use of cable facilities having neither load coils nor bridge-tap. In the event such facilities are not available, the Company will, at the customer's request, remove load coils and bridge-tap from facilities at cable opening charges as shown in 1.2.4.F. following.
- b. Provision of such channels is subject to the availability of existing facilities.

6. Types 3040 and 3041

A Type 3041 channel may be used between a DSS and a remote station where transmission limitations preclude using a Type 3040 channel.

/1/ Effective April 15, 2014, Local Area Data Channels, types 3080 and 3081, will no longer be available to new customers. Existing customers may keep the service, subject to withdrawal, but will no longer be able to add/remove features, make changes (including upgrades or downgrades of access/port speed), install new service, or move the service to a different service address or location.

(N)

(N)

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)****1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels****A. Monthly Rate Elements (cont'd)**

Note: The monthly rates for Type 1002AA Channels are covered in 1.2.4.D following.

1. Local channels, half-duplex or duplex

A local channel is comprised of two rate elements, a local loop charge and a service area function charge as follows:

a. Local Loops

	<u>Monthly Rate</u>	<u>USOC</u>	
(1) Effective two-wire loop	\$1,434.00	1LPJJ ^{/1}	(I)
(2) Effective four-wire loop	2,784.00	1LNFB ^{/1}	(I)
(3) Type 1001 channel furnished on cable pair which is not capable of voice grade service or where both conductors are not operative, each loop	10.60	1L31J	

Note: Types 2020, 2021, 2024, 2025, 3002, 3041, 3081 and 3083 channels require four wire loops.

/1/ Additional codes appear in departmental practices.

1. CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

A. Monthly Rate Elements (cont'd)

1. Local channels, half-duplex or duplex (cont'd)

b. Service Area Function For Local Service Area Private Lines

<u>Description</u>	<u>Monthly Rate All Terminations in Same CO Area</u>	<u>USOC</u>	<u>Monthly Rate Terminations in Different CO Area</u>	<u>USOC</u>
Type 1001	\$679.00 (I)	OPMAA	\$679.00(I)	OPMAB
Type 1002A	679.00 (I)	OPMAD	9.40	OPMAE
Type 1002B	9.40	OPMAG	9.40	OPMAH
Type 1002C	9.40	OPMAK	9.40	OPMAL
Type 1005	9.40	OPMAN	9.40	OPMAO
Type 1006	9.40	OPMAQ	9.40	OPMAR
Type 1102	9.40	OPMAT	9.40	OPMAU
Type 2001	2,343.00 (I)	OPMPS	2,911.00 (I)	OPMPD
Type 2002	2,343.00 (I)	OPMAW	2,911.00 (I)	OPMAX
Type 2013	2,343.00 (I)	OPMBA	2,911.00 (I)	OPMBB
Type 2014	2,343.00 (I)	OPMBD	2,911.00 (I)	OPMBE
Type 2020	34.40	OPNBG	42.00	OPNBH
Type 2021	2,628.00 (I)	OPNBK	3,205.00 (I)	OPNBL
Type 2024	34.40	OPOBN	3,205.00 (I)	OPOBO
Type 2025	2,628.00 ^{1/} (I)	OPOBQ	42.00 ^{1/}	OPOBR
Type 2026	2,628.00 (I)	OPQBT	42.00 ^{1/}	OPQBU
Type 3001	1,747.00 (I)	OPMBW	1,747.00 (I)	OPMBX
Type 3002	2,911.00 (I)	OPMCA	3,205.00 (I)	OPMCB
Type 3040	22.90	OPMCD	22.90	OPMCE
Type 3041	22.90	OPMCG	22.90	OPMCH
Type 3080 ^{2/}	3,205.00 (I)	OPMCK	-	-
Type 3081 ^{2/}	2,911.00 (I)	OPMCL	-	-
Type 3083	38.20	OPMCM	-	-

/1/ When a private line channel for a customer terminates in switching equipment located on Company premises and no local loop is required, the monthly rate for a service area function still applies to such termination

/2/ Effective April 15, 2014, Local Area Data Channels, types 3080 and 3081, will no longer be available to new customers. Existing customers may keep the service, subject to withdrawal, but will no longer be able to add/remove features, make changes (including upgrades or downgrades of access/port speed), install new service, or move the service to a different service address or location.

1. CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

A. Monthly Rate Elements (cont'd)

1. Local channels, half-duplex or duplex (cont'd)

c. Service Area Function For Interexchange Private Lines

<u>Description /Billing Code/</u>	<u>Monthly Price</u>	
Type 1001 /OPMAC/	\$ 9.40	
Type 1002A /OPMAF/	9.40	
Type 1002B /OPMAJ/	9.40	
Type 1002C /OPMAM/	9.40	
Type 1005 /OPMAP/	9.40	
Type 1006 /OPMAS/	9.40	
Type 1102 /OPMAV/	9.40	
Type 2001 /OPMPX/	2,911.00	(I)
Type 2002 /OPMAY/	2,911.00	
Type 2013 /OPMBC/	2,911.00	
Type 2014 /OPMBF/	2,911.00	(I)
Type 2020 /OPNBJ/	42.00	
Type 2021 /OPNBM/	42.00	
Type 2024 /OPOBP/	3,205.00	(I)
Type 2025 /OPOBS/	42.00 ^{/1/}	
Type 2026 /OPQBV/	3,205.00 ^{/1/}	(I)
Type 3001 /OPMBY/	22.90	
Type 3002 /OPMCC/	3,205.00	(I)
Type 3040 /OPMCF/	22.90	
Type 3041 /OPMCJ/	22.90	
Type 3080 ^{/2/} -	-	
Type 3081 ^{/2/} -	-	
Type 3083 -	-	

/1/ When a private line channel for a customer terminates in switching equipment located on Company premises and no local loop is required, the monthly rate for a service area function still applies to such termination.

/2/ Effective April 15, 2014, Local Area Data Channels, types 3080 and 3081, will no longer be available to new customers. Existing customers may keep the service, subject to withdrawal, but will no longer be able to add/remove features, make changes (including upgrades or downgrades of access/port speed), install new service, or move the service to a different service address or location.

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)**

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

A. Monthly Rate Elements (cont'd)

2. The following rates are applicable to channels.

<u>Description /Billing Code/</u>	<u>Monthly Price</u>	
a. Interoffice channel, duplex or half-duplex, each mile or fraction thereof /1LPJS// ^{1/}	\$843.00	(I)
b. Interexchange channel, duplex or half-duplex, each mile or fraction thereof /1LPJ4// ^{1/}	402.00	(I)
c. Service terminal /P3N/	3,837.00	(I)

/1/ Additional codes appear in departmental practices.

1. CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

B. Application of Monthly Rate Elements to Local Service Area Private Line Services

1. Private line services between non-continuous property locations

- a. Private line services between non-continuous property locations are provided in the channel types specified in 1.2.1, 1.2.2 and 1.2.3 preceding.
- b. The monthly charge for private line service when all service locations are within the same central office area is the appropriate monthly rate set forth in A.1 preceding for the number of local channels required to provide such service.
- c. The monthly charge for private line service with service locations in two or more central office areas is
 - (1) the appropriate monthly rate specified in A.2 preceding for interoffice channels between the central offices of the service locations involved, computed in accordance with the provisions of 1.1.2.D preceding; plus (C)
 - (2) the appropriate monthly rate specified in A.1 preceding for a local channel between each service location and its serving central office.

C. Application of Monthly Rate Elements to Interexchange Private Line Services

1. The monthly charge for interexchange private line service is

- a. the appropriate monthly rate specified in A.2 preceding for the interexchange channels between the rate centers of the service points, computed in accordance with the provisions of 1.1.2.C preceding; plus (C)
- b. the monthly rate specified in A.2 preceding for a service terminal per two point section, per rate center in which an interexchange channel terminates or connects to one or more service locations. (C)

1. CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

- C. Application of Monthly Rate Elements to Interexchange Private Line Services (cont'd)
- 2. In addition, whenever the interexchange channel connects to one or more service locations within the exchange area of a rate center, the monthly charge for that portion of the service between the rate center and the service locations is as follows:
 - a. All service locations in rate center central office area:
 - b. Service locations in two or more central office areas:

The appropriate monthly rate specified in A.2 preceding for an interoffice channel(s) between the rate center central office and the central office(s) of the service locations, computed in accordance with the provisions of 1.1.2.D preceding plus the appropriate monthly rate specified in A.1 preceding for a local channel between each service location and its serving central office. (C)

<u>Description /Billing Code/</u>	<u>Monthly Rate</u>
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D. Civil Air Defense Warning Systems

Type 1002AA

1. Channel Facilities

a. Interexchange Channels

Where all stations are in Company exchange areas which are not in the local service area of the other or others

Each mile or fraction thereof (Mileage is determined as set forth in 1.1.2.C.1. preceding) /1L334/

\$9.90

1. CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

D. Civil Air Defense Warning Systems (cont'd)

Type 1002AA (cont'd)

Monthly <u>Rate</u>	<u>USOC</u>
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1. Channel Facilities (Cont'd)

b. Local channels provided in connection with
interexchange channels

Each 1/4 mile or fraction thereof	\$2.75	1L33R
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(Measured airline between each receiving station and
the rate center of the exchange area in which the
receiving station is located)

c. Local Service Area Channels

Where all stations are in a Telephone Company
exchange area or in Telephone Company exchange
areas which are in the local service area of the other or
others

Each 1/4 mile or fraction thereof	2.75	1L33M
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(Measured airline between each receiving station and
the normal central office of the receiving station)

E. Miscellaneous Channel Arrangements

1. Type 1006 Channel Station Arrangements

Station arrangements are required under the conditions specified in 1.2.1.B.6, and at the
following rates:

Monthly <u>Rate</u>	<u>USOC</u>
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a. Two stations, each station	\$31.15	4GTMS
b. More than two stations, each station	61.15	4GTMP

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)**

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

E. Miscellaneous Channel Arrangements (cont'd)

2. Switching arrangements - Type 2001 Interexchange Channels

Switching arrangements are provided to permit a customer with a PBX system to connect two separate two point private line services so as to form through connections, the provision of which contemplates satisfactory transmission over such private line services.

	Monthly <u>Rate</u>	<u>USOC</u>
a. Per service point, per service arranged	\$31.75	SWA

Note: Each private line connected to a switching arrangement is provided as a separate service but remains as an integral part of the customer's network.

- b. Other types of switching arrangements will be furnished where facility conditions permit at rates and charges based upon costs incurred.
- c. A switching arrangement associated with a PBX system requires an interexchange private line terminal.

1. CHANNELS (cont'd)**1.2 Classification and Rates (cont'd)**

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

F. Moves and Changes

1. Bridging of terminations of local and interoffice portions of local service area channels (Types 1001, 1002A, 3001 and 3002)
 - a. Bridging equipment at bridging points

Bridging equipment provided by the Company at bridging points in connection with multipoint channels is furnished at rates or charges based upon costs incurred except for Types 3001 and 3002 channels, in which event standard bridging equipment provided by the Company at bridging points in connection with multipoint channels is furnished without additional charge.
 - b. Rearrangements of terminations at bridging points
 - (1) No charge applies to terminations left in place on a channel when terminations are added or when terminations are removed.
 - (2) For transfer of one or more terminations from a given channel to another, apply a charge equal to the charge to move one channel termination.

Nonrecurring Charge

2. Removal of load coils and bridge-tap for Local Area Data Channels, per cable opening	\$520.30
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2. ALTERNATE USE ARRANGEMENTS (cont'd)

Subject to the provisions in Section 1 preceding, the Company will provide private line service to permit different types of transmission on an alternate use basis. The type of transmission for which such service may be used and the charges applicable for such use are as set forth below. The customer must provide a transfer key to permit the customer to switch from one type of operation to another. Generally only one type of operation can be used at one time. Regulations applicable to a particular type of operation apply during the period the service is used for that type of operation. The alternate use charges specified are in addition to all other charges applicable for the type of channel required. The charges applicable for the type of channel are those specified for monthly service.

2.1 Series 1000 Channels

A. Alternate use of Teletypewriter up to 75 Bauds and Remote Metering, Supervisory control and Miscellaneous Signaling Purposes (Type 1001 and Type 1002A)

1. Channel type required: 1002B/1002C/1005
2. This alternate use, furnished only where channel terminal facilities are provided by the Company, is available on two point services. On services involving more than two points, it will be permitted where facility conditions permit.

	Monthly Rate	Nonrecurring Charge	USOC
3. Alternate use, per termination	\$ 3.05	\$39.20	TYW ^{/1}
4. Additional facilities required on multipoint service will be furnished based upon costs incurred by the Company.			
B. Alternate use of Teletypewriter up to 75 Bauds and Data up to 75 Bauds			
1. Channel type required: 1002B/1002C/1005			
2. This alternate use is available on two-point half duplex service only. It may be provided for the same or lesser grade of transmission			
3. Each station arranged for alternate use	46.15	-	TYV ^{/1}

/1/ Additional codes appear in departmental practices.

2. ALTERNATE USE ARRANGEMENTS (cont'd)

2.2 Series 2000 Channels (cont'd)

- A. Alternate use of Voice and Remote Metering, Supervisory Control and Miscellaneous Signaling Purposes (Type 1001, 1002A and 3001)
 - 1. Channel type required: 2001
 - 2. This alternate use, furnished only where channel terminal facilities are provided by the Company, is available on two-point services. On services involving more than two points alternate use will be permitted where facilities permit.
 - 3. For rate and charge, see 2.1.A preceding.
 - 4. Additional facilities required on multipoint service, if not detrimental to any of the services furnished by the Company, will be furnished based upon costs incurred.
- B. Alternate use of Voice and Teletypewriter up to 75 Bauds
 - 1. Channel type required: 2001
 - 2. This alternate use is available on two point half duplex services. On services involving more than two points, it will be permitted where facility conditions permit.
 - 3. For monthly rate, see 2.1.B preceding.
 - 4. Additional facilities required on multipoint service, if not detrimental to any of the services furnished by the Company, will be furnished based upon costs incurred.
- C. Alternate use of Voice and Teletypewriter up to 150 Bauds
 - 1. Channel type required: 2001
 - 2. This alternate use is available on half-duplex interexchange two-point services. Where such services involve more than two points, alternate use is permitted where facility conditions permit.
 - 3. For monthly rate, see 2.1.B preceding.
 - 4. Additional facilities required on multipoint service, if not detrimental to any of the services furnished by the Company, will be furnished based upon costs incurred.

2. ALTERNATE USE ARRANGEMENTS (cont'd)

2.2 Series 2000 Channels (cont'd)

- D. Alternate use of Voice and Data up to 75 Bauds
 - 1. Channel type required: 2001
 - 2. This alternate use is available on half-duplex interexchange two point services only.
 - 3. For monthly rate, see 2.1.B preceding.
- E. Voice private line service used alternately as interexchange circuit in connection with Foreign Exchange Service
 - 1. Channel type required: 2001
 - 2. Foreign exchange operation is available only between two points on interexchange private line service.
 - 3. In addition to the rates and charges specified in this Guidebook for private line service, this alternate use arrangement requires the application of regulations, rates and charges for foreign exchange service (except the rates and charges related to the interexchange circuits) set forth in Part 4, Section 3 of this Guidebook (or P.U.C.O. Tariff No. 20), plus the following:

	Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>	USOC
Manual Operation			
a. Each station of private line service connected for alternate use Type 1001 control channel, per transfer key	\$40.40 See 1.2.4 preceding	\$21.05	37J
b. Foreign exchange service intercept channel between the central office from which the foreign exchange service is furnished and the customer's premises, at rates specified in Part 4, Section 3 of this Guidebook (or P.U.C.O. Tariff No. 20). In lieu of an intercept channel, at the customer's option, trunk make busy equipment may be provided on the exchange service line under the provisions of Part 8, Section 8 of this Guidebook (or P.U.C.O. Tariff No. 20).			
(1) Circuit busy visual indicating arrangement (2) Type 1001 control channel per arrangement	34.60 See 1.2.4 preceding	528.35	37H

2. ALTERNATE USE ARRANGEMENTS (cont'd)**2.3 Series 3000 Channels**

A. Alternate Use - Voice and Data - Type 3002

1. Channel type required: 3002
2. This alternate use is available on interexchange two point services only.

3. Alternate use, per station	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	<u>USOC</u>
Duplex	\$5.40	\$70.35	3AG

3. CHANNEL CONDITIONING**3.1 Channel conditioning is provided on Types 2001 and 3002 channels**

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	<u>USOC</u>
A. Type C1 conditioning			
1. On a two point or multipoint channel within the same exchange area, each channel	\$ 30.00	\$25.40	QA9
2. On a two point or multipoint channel with stations in 2 exchange areas			
a. First station in an exchange area	30.00	25.40	QAB
b. Additional stations and additional terminations in the same exchange areas as the first station, each	17.60	25.40	QAC
3. On a multipoint channel with stations in 3 or more exchange areas			
a. First station in an exchange area	60.00	61.15	QAD
b. Additional stations and additional terminations in the same exchange area as the first station, each	17.60	25.40	QAE
B. Type C2 conditioning			
1. On a two point or multipoint channel within the same exchange area, each channel	110.75	61.15	QAF
2. On a two point or multipoint channel with stations in 2 exchange areas			
a. First station in an exchange area	110.75	61.15	QAG
b. Additional stations and additional terminations in the same exchange areas as the first station, each	17.60	25.40	QAH
3. On a multipoint channel with stations in 3 or more exchange areas			
a. First station in an exchange area	140.75	125.75	QAJ
b. Additional stations and additional terminations in the same exchange area as the first station, each	17.60	25.40	QAK

3. CHANNEL CONDITIONING (cont'd)**3.1 Channel conditioning is provided on Types 2001 and 3002 channels (cont'd)****C. Type C4 conditioning**

Type C4 conditioning is limited to channels with a maximum of 3 terminations, i.e., a two point channel with 1 additional termination or a 3 point multipoint Channel without additional terminators. One termination is designated by the customer as the point and each of the other 2 terminations.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	<u>USOC</u>
a. On a channel within the same exchange area, each channel	\$166.15	\$125.75	QA3
b. On a channel between exchange areas, each station or termination	166.15	125.75	QA7

D. Type D1 (high performance) conditioning

Type D1 (high performance) conditioning for Type 3002 duplex channels

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	<u>USOC</u>
On a two point channel not arranged for switching, each channel	45.00	281.50	QHA