

1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS**A. General Provisions**

Customer's terminal equipment and communications systems may be connected at the customer's premises to telecommunications services furnished by the Company where such connections are made in accordance with the provisions of this section and Part 68 of the Federal Communications Commission's rules and Regulations.^{/1/} Telecommunications services as used herein includes Exchange Service, Message Toll Telephone Service and Wide Area Telecommunications Service (WATS). (T)

1. Responsibility of the Customer

- a. The customer shall be responsible for the installation, operation and maintenance of all their terminal equipment and communications systems. No combinations of terminal equipment or communications systems shall require change in or alteration of the equipment or services of the Company, cause electrical hazards to Company personnel, damage to Company equipment, malfunction of Company billing equipment, or degradation of service to persons other than the user of the subject terminal equipment or communications system, his calling or called party. Upon notice from the Company that any terminal equipment or communications system is causing such hazard, damage, malfunction or degradation of service, the customer shall make such changes as shall be necessary to remove or prevent such hazard, damage, malfunction or degradation of service. (T)
- b. Whenever equipment or facilities of the customer are connected to equipment or facilities of the Company, it is contemplated that when trouble develops, the customer will make appropriate tests of his equipment or facilities to determine whether such trouble is in his or in the Company's equipment or facilities before reporting an out of service or other trouble condition to the Company. (T)

The customer shall be responsible for the payment of a Maintenance of Service Charge as provided on a non-regulated basis for visits by a Company employee to the customer's premises when a service difficulty or trouble report results from the use of the customer's terminal equipment or communications system/or inside wiring. (T)

/1/ Any reference in this tariff to Part 68 of the Federal Communications Commission's Rules and Regulations include the Commission's orders relating thereto.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)**

A. General Provisions (cont'd)

2. Responsibility of the Company (T)
 - a. Telecommunications services are not represented as being adaptable with the use of customer-provided terminal equipment or communications systems. Where customer-provided terminal equipment or communications systems are used with telecommunications services, the responsibility of the Company shall be limited to the furnishing of service components suitable for telecommunications services and to the maintenance and operation of service components in a manner proper for such services. Subject to this responsibility the Company shall not be responsible for (1) the through transmission of signals generated by the customer-provided terminal equipment or communications system, or (2) the reception of signals by customer-provided terminal equipment or communications systems, or (3) address signaling where such signaling is performed by customer-provided signaling equipment. (T)
 - b. The Company will, at the customer's request, provide information concerning interface parameters, including the number of ringers which may be connected to a particular telephone line, needed to permit customer-provided terminal equipment to operate in a manner compatible with telecommunications service. (T)
 - c. The Company may make changes in its telecommunications services, equipment, operations or procedures, where such action is not inconsistent with Part 68 of the Federal Communications Commission's Rules and Regulations. If such changes can be reasonably expected to render any customer's terminal equipment or communications system incompatible with telecommunications services, or require modification or alteration of such customer-provided terminal equipment or communications systems, or other materially affect its use or performance, the customer will be given adequate notice, in writing, to allow the customer an opportunity to maintain uninterrupted service. (T)

3. Recording of Two-Way Telephone Conversations

The recording of two-way telephone conversations is governed by state and federal laws and regulations.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****A. General Provisions (cont'd)**

4. Transmission of Prerecorded Messages

Customers' automatic answering and recording equipment, connected with telecommunications services in accordance with this section of this tariff, may be used for advertising, public announcement, or promotional purposes. The customer is required to designate the kind of announcements (such as news or sports announcements, inspirational messages, etc.) and the nature of the advertising messages to be delivered and, based on the use to be made of the service and the anticipated incoming call volume, the Company will determine the number of lines required. Once the service has been established, the customer may not, without the express advance consent of the Company, deliver announcements of any other kind or advertising messages so different in nature as to engender a volume of calls in excess of that contemplated at the time service was established. (T)

The complete announcement, which includes both the announcement and the advertising message desired by the customer, is limited to a maximum of two minutes' duration. (T)

5. Violation of Regulations

When any terminal equipment or communications system of the customer is used with telecommunications services in violation of any of the provisions in this section, the Company will take such immediate action as necessary for the protection of the telecommunications network and Company employees, and will promptly notify the customer of the violation. The customer shall discontinue such use of the terminal equipment or communications system or correct the violation and shall confirm in writing to the Company within 10 days, following the receipt of written notice from the Company, that such use has ceased or that the violation has been corrected. Failure of the customer to discontinue such use or to correct the violation and to give the required written confirmation to the Company within the time stated above shall result in suspension of the customer's service until such time as the customer complies with the provisions of this tariff. (T)

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****A. General Provisions (cont'd)**

6. Definitions of Terms Used in this Section

- a. Communications systems are channels and other facilities which are capable, when not connected to WATS, exchange or long distance message telecommunication service, of communications between terminal equipment or stations.

When used in connection with communications systems provided by an Other Common Carrier (OCC), denotes channels and other facilities furnished by the OCC for private line services as such carrier is authorized by the Federal Communications Commission to provide.

- b. A connecting arrangement is equipment provided by the Company to accomplish the direct electrical connection of a customer's facilities with facilities of the Company. (T)
(T)
- c. A direct electrical connection is the physical connection of the electrical conductors in the communications path.
- d. Terminal equipment includes devices or apparatus and their associated wiring, provided by a customer, which do not constitute a communications system and which, when connected to the communications path of the telecommunications system, are so connected either electrically, acoustically or inductively.

B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations

Pursuant to Rules and Regulations promulgated by The Federal Communications Commission, customer-provided terminal equipment and communications systems to be connected to the telecommunications network must, except as otherwise provided, be either grandfathered or registered.

1. Grandfathered Terminal Equipment

- a. "Grandfathered Terminal Equipment" is customer-provided terminal equipment (non-key telephone sets, data sets, ancillary devices, including protective circuitry, if any) considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because such terminal equipment is connected to the telecommunications network prior to July 1, 1979 and is of a type of terminal equipment which was directly connected (i.e., without Company-provided connecting arrangements) to the telecommunications network, in accordance with any telephone company's tariffs, as of October 17, 1977. (T)

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

1. Grandfathered Terminal Equipment (cont'd)

- b. Grandfathered terminal equipment may remain directly connected and be moved and reconnected at the customer's premises to the telecommunications network for the life of the equipment without registration and may not be modified unless in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations, subject to the following:

- (1) the customer shall notify the Company when such grandfathered terminal equipment is to be connected and shall notify the Company when such grandfathered terminal equipment is to be permanently disconnected; such notification shall include a description of the equipment including the manufacturer's name, model number, and type of equipment; (T)
(T)
- (2) all such connections are made either through Company- provided standard jacks or are otherwise connected by the Company; and (T)
(T)
- (3) all such connections shall comply with the minimum protection criteria set forth in 3-e following.

2. Grandfathered Communications Systems

- a. "Grandfathered Communications Systems" are customer-provided communications systems (e.g., PBX and Key telephone systems and their associated equipment, premises wiring and protect circuitry, if any) considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because such systems were connected to the telecommunications network prior to January 1, 1980 and are of a type of system which was directly connected (i.e. without Company-provided connecting arrangements) to the telecommunications network, in accordance with any telephone company's tariffs, as of June 1, 1978. (T)
- b. Grandfathered communications systems may remain directly connected for the life of the equipment without registration, and may not be modified unless in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations, subject to the following:
- (1) All such connections shall comply with the minimum protection criteria set forth in 3-e following.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

2. Grandfathered Communications Systems (cont'd)

b. (cont'd)

(2) No changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.

(3) Premises wiring shall conform to Part 68 of the Federal Communications Commission's Rules and Regulations.

(4) The customer shall notify the Company when such communications systems are to be connected and shall notify the Company when such communications systems are to be permanently disconnected; such notification shall include a description of the equipment including the manufacturer's name, model number, and type of equipment. (T)

(5) All such connections are made either through Company-provided standard jacks or are otherwise connected by the Company. (T)

c. Additions to grandfathered communications systems specified in b. preceding may be made without registration of any additional equipment if equipment so added is being reconnected, i.e., was previously directly connected prior to January 1, 1980, in accordance with Company tariffs. Such additions are subject to the provisions of b-(3) through (5) preceding. (T)

d. Additions of registered equipment to grandfathered communications systems are subject to B-4 following.

e. Systems connected pursuant to a., b and c. preceding may remain connected and be moved and reconnected to the telecommunications network, in accordance with b-(3) through (5) preceding, for the life of the equipment and may not be modified unless in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

3. Grandfathered Connections

a. General Provisions

- (1) Connections of customer's terminal equipment are considered to be grandfathered under Part 68 of the FCC's Rules and Regulations if such connections were made to the telecommunications network via Company-provided connecting arrangements prior to July 1, 1979 and such connecting arrangements are of a type of connecting arrangement connected to the telecommunications network, in accordance with any telephone company's tariffs, as of October 17, 1977. (T)
- (2) Connections of customer's communications systems (including their equipment and premises wiring) are considered to be grandfathered under part 68 of the Federal Communications Commission's Rules and Regulations if such connections were made to the telecommunications network via Company-provided connecting arrangements prior to January 1, 1980 and such connecting arrangements are of a type of connecting arrangement connected to the telecommunications network, in accordance with any Company's tariffs, as of June 1, 1978. (T)
- (3) Basis of Connection
 - (a) Grandfathered connections of terminal equipment and grandfathered connections of communications systems, made in accordance with b., c. and d. following, may remain connected and be moved and reconnected for the life of the equipment. Such equipment may not be modified unless in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations. Connecting arrangements used for such moves and reconnections will continue to be provided by the Company, subject to their availability, at the rates and charges specified in paragraph 4 following. (T)

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

3. Grandfathered Connections (cont'd)

a. General Provisions (cont'd)

(3) Basis of Connection (cont'd)

- (b) Until July 1, 1980, the Company will provide connecting arrangements in accordance with the provisions of G. following for installations of new customer-provided devices or system components that are non-registerable under Part 68 of the Federal Communications Commission's Rules and Regulations, and are connected at the customer's premises to terminal equipment or communications systems provided by the Company. Such connections made prior to July 1, 1980, may remain connected and be moved and reconnected for the life of such devices or system components or for the life of the Company-provided terminal equipment or communications system. Such devices and system components may not be modified unless in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations. Connecting arrangements used for reconnection of such customer-provided devices or system components will continue to be provided by the Company, subject to their availability, at the rates and charges specified in this tariff. (T)
- (c) Separate, identifiable and discrete protective circuitry (i.e., connecting arrangements) used for grandfathered connections of communications systems to the telecommunications network may be removed or replaced with apparatus of lesser protective function, provided that any equipment, and any premises wiring whose classification is changed thereby, conforms to part 68 of the Federal Communications Commission's Rules and Regulations. (T)

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

3. Grandfathered Connections (cont'd)

b. Data Terminal Equipment

Subject to the provisions of a-(3) preceding, customer-provided data terminal equipment (including telephotograph, electrocardiogram and electroencephalogram equipment) may be connected at the customer's premises to the telecommunications network through a network control signaling unit and a data access arrangement provided by the Company in accordance with the following: (T)

- (1) The customer shall furnish the equipment which performs the functions of:
 - (a) conditioning the data signals generated by the customer-provided terminal equipment to signals suitable for transmission by means of Company services, and (T)
 - (b) conditioning signals transmitted by means of Company services to data signals suitable for reception by customer-provided equipment. (T)
- (2) The customer-provided data terminal equipment must comply with the minimum protection criteria specified in e. following.
- (3) Where a data access arrangement is furnished in connection with customer-provided terminal equipment and such terminal equipment is used for both voice and data communication, the data access arrangement may be used to connect the customer-provided terminal equipment for voice communication.

c. Voice Terminal Equipment

Subject to the provisions of a-(3) preceding, customer-provided voice terminal equipment may be connected at the customer's premises to the telecommunications network in accordance with the following:

- (1) The connection shall be made through a network control signaling unit and a connecting arrangement furnished by the Company. A connecting arrangement is not required for the connection of Attested Equipment or Conforming Answering Devices. (T)

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

3. Grandfathered Connections (cont'd)

c. Voice Terminal Equipment (cont'd)

- (2) Where customer-provided terminal equipment is used for both voice and data communication, see b-(3) preceding.
- (3) The customer-provided voice terminal equipment must comply with the minimum protection criteria specified in e. following.

d. Communications Systems

Subject to the provisions of a-(3) preceding, customer-provided communications systems may be connected at the customer's premises to telecommunications service in accordance with the following:

- (1) The connection shall be through a network control signaling unit and connecting arrangement furnished by the Company. (T)
- (2) The provisions relating to minimum protection criteria set forth in e. following shall apply to the connection of customer-provided communications systems.

e. Minimum Protection Criteria for Electrical Connections

- (1) To prevent excessive noise and crosstalk in the network, it is necessary that the power of the signal at the central office not exceed 12dB below one milliwatt when averaged over any three second interval. To insure that this limit is not exceeded the power of the signal which may be applied by the customer-provided equipment to the Company interface located on the customer's premises will be specified for each customer location but in no case shall it exceed one milliwatt. (T)
- (2) To protect other services, it is necessary that the signal which is applied by the customer-provided equipment to the Company interface located on the customer's premises meet the following limits: (T)
 - (a) The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18dB below the power of the signal as specified in a. above.
 - (b) The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16dB below one milliwatt.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

3. Grandfathered Connections (cont'd)

e. Minimum Protection Criteria for Electrical Connections (cont'd)

(2) (cont'd)

- (c) The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24dB below one milliwatt.
- (d) The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36dB below one milliwatt.
- (e) The power in the band above 40,000 Hertz shall not exceed 50dB below one milliwatt.
- (3) To prevent the interruption or disconnection of a call, or interference with network control signaling, it is necessary that the signal applied by the customer-provided equipment to the Company interface located on the customer's premises at no time have energy solely in the 2450 to 2750 Hertz band. If signal power is in the 2450 to 2750 Hertz band, it must not exceed the power present at the same time in the 800 to 2450 Hertz band. (T)
- (4) The Network control signaling involves the transmission of signals used in the telecommunications systems which perform functions such as supervision (control, status and charging signals), address signaling (e.g., dialing), calling and called number identification, and audible tone signals (call progress signals indicating re-order or busy conditions, alerting, coin denominations, coin collect and coin return tones) to control the operation of switching machines in the telecommunications systems.

Network control signaling shall be performed by equipment furnished, installed and maintained by the Company, except that: (T)

- (a) Customer-provided tone-type address signaling is permissible through a Company-provided connecting arrangement. When the customer has the capability to originate calls by means of such instruments and special central office facilities exist, the rates and charges for TOUCH-TONE Calling Service apply. (T)
- (b) Signaling functions may be performed by customer-provided Conforming Answering Devices.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

3. Grandfathered Connections (cont'd)

f. Attested Equipment Connected Prior to July 1, 1980

- (1) Customer-provided headsets and nonpowered conferencing equipment which meet the standards and procedures set forth by the Company in Technical References for Attested Equipment connected at the customer's premises to the telecommunications network prior to July 1, 1980 in accordance with (a) through (e) following, may remain connected and be moved and reconnected in accordance therewith for the life of the equipment unless subsequently modified: (T)
- (a) The connection shall be made through an interface termination (e.g., headset jack) provided by the Company. (T)
 - (b) The Identification Number issued by the Company to the manufacturer or supplier must appear on each unit of Attested Equipment utilized. (T)
 - (c) Customers must notify the Company of their intention to connect Attested Equipment. Such notification must include the Identification Number of the equipment and the location at which that equipment is to be used. (T)
 - (d) Attested Equipment may not:
 - be connected to a source of electrical power which is external to the telecommunications network;
 - be grounded;
 - perform any network control signaling functions prior to and including the establishment of the intended transmission path;
 - have amplification in the transmission path (other than single ended terminal devices with the maximum gain limited so that the output power meets the minimum protection criteria set forth in e. preceding); and
 - use wiring external to such equipment that is permanently affixed at the site of the installation other than portable connections compatible with the interface terminations provided by the Company. (T)
 - (e) Attested Equipment must comply with the minimum protection criteria set forth in e. preceding.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

3. Grandfathered Connections (cont'd)

f. Attested Equipment Connected Prior to July 1, 1980 (cont'd)

- (2) In the event Attested Equipment bearing an Identification Number does not meet the requirements set forth by the Company in its Technical References, the customer using such Attested Equipment shall either disconnect the equipment from the Company service or arrange for connection of the equipment in accordance with B-4 following. (T)

g. Conforming Answering Devices Connected Prior to July 1, 1979

- (1) Customer-provided Conforming Answering Devices which meet the standards and procedures set forth by the Company in Technical References for Conforming Answering Devices and which are connected at the customer's premises to the telecommunications network prior to July 1, 1979, in accordance with (a) through (e) following, may remain connected and be moved and reconnected in accordance therewith for the life of the equipment, unless subsequently modified. (T)
- (a) Customers shall notify the Company of their Intention to connect Conforming Answering Devices. Such Notification shall include the location at which the Conforming Answering Device is to be used as well as its Conformance Number. (T)
- (b) The Conforming Answering Device shall only be connected by means of a jack or jack arrangement provided by the Company. (T)
- (c) The Conforming Answering Device shall be operated and maintained in accordance with those instructions furnished with such Conforming Answering Device as required by the Company's Technical Reference for Conforming Answering Devices. (T)
- (d) Conforming Answering Devices may not:
- be used to transmit or receive data signals;
 - be used with payphone service; and
 - be used to originate calls.
- (e) The Conforming Answering Device shall comply with the minimum protection criteria set forth in e. preceding.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

3. Grandfathered Connections (cont'd)

g. Conforming Answering Devices Connected Prior to July 1, 1979 (cont'd)

- (2) In the event that answering device bearing a Conformance Number does not meet the requirements of the Company's Technical Reference for Conforming Answering Devices, the customer using such answering device shall either disconnect the device from the Company service or arrange for connection of the device in accordance with B-4 following.

4. Registered Equipment

- a. "Registered Equipment" is equipment which complies and has been approved within the Registration provisions of Part 68 of the Federal Communications Commission's Rules and Regulations.
- b. Customer-provided registered terminal equipment, registered protective circuitry, and registered communications systems may be directly connected at the customer's premises to the telecommunications network, subject to Part 68 of the Federal Communications Commission's Rules and Regulations, Paragraph A. preceding and the following:
- (1) All combinations of registered equipment and associated non-registered terminal equipment (including but not limited to wiring) shall be installed, operated and maintained so that the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are continually satisfied. The Company may discontinue service or impose other remedies as provided for in Part 68 of the Federal Communications Commission's Rules and Regulations for failure to comply with these provisions.
- (2) At the option of the Company, the customer may be required to notify the Company of each line to which registered equipment is to be connected in advance of such connection and shall notify the Company when such registered equipment is permanently disconnected. At the option of the Company, the customer may be required to provide the Company the Registration Number and Ringer Equivalence Number for the registered equipment and the Universal Service Order Code (USOC) of the Company-provided standard jack required.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****B. Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

4. Registered Equipment (cont'd)

b. (cont'd)

- (3) The customer shall not connect registered equipment to a Company line if: (T)
- (a) the Ringer Equivalence of such equipment in combination with the total Ringer Equivalence of other equipment connected to the same line exceeds the allowable maximum of five or as otherwise determined by the Company, or (T)
- (b) the ringer type is not a ringer type designated by the Company as suitable for that particular line. (T)
- (4) Unless a specific waiver has been granted by the Federal Communications Commission or except as otherwise provided in (5) following, all connections of registered equipment to services furnished by the Company shall be made through Company-provided standard jacks; or, in the case of registered communications systems, through standard jacks wired in other than a standard manner, when such non-standard wiring of the jack is agreed to by the Company. (T)
- (5) The requirement for the use of a standard jack as described in (4) preceding is waived for registered equipment which is located in hazardous or inaccessible locations. (T)

c. Connections Involving National Defense and Security

In certain cases Part 68 of the Federal Communications Commission's Rules and Regulations permits the connection of non-Registered terminal equipment or communications systems to the telecommunications network, provided that:

- (1) The Secretary of Defense; the head of any other governmental department (having requisite Federal Communications Commission approval); or their authorized representative certifies in writing to the Company that: (T)
- (a) The connection is required in the interest of national defense and security;
- (b) The equipment to be connected either complies with the technical requirements of Part 68 or will not cause harms to the telecommunications network or Company employees; and (T)
- (c) The work is supervised by an installation supervisor who meets the qualifications stated in Part 68.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****C. Connection of Customer-Provided Communications Systems Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations**

1. Direct Electrical Connection

Customer-provided communications systems not subject to Part 68 of the Federal Communications Commission's Rules and Regulations may be connected with telecommunications services on a direct electrical basis at the customer's premises provided that:

a. The connection is made through:

- (1) a connecting arrangement furnished by the Company, or (T)
- (2) registered or grandfathered terminal equipment, protective circuitry, or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations which, either singularly or in combination, assures that the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are met at the network interface.

In lieu of these requirements for total hardware protection, an optional, alternative method is available, as described in 2. following, for the control of signal power only.

b. The connection is:

- (1) through switching equipment, or
- (2) to a customer-provided communications system not subject to Part 68 of the Federal Communications Commission's Rules and Regulations that is arranged to promptly return the network service to an idle (on hook) state should the communications system fail. In addition, the customer must notify the Company when the communications system fails. (T)

c. Minimum protection criteria set forth in B-3-e. preceding are complied with when the connection is made through equipment or systems that are not registered.

d. When the connection is to WATS service, the customer has a requirement to communicate over a WATS line to or from premises of that customer located in the same rate state as that for which the WATS initial period rate applies. Customer-provided communications systems not subject to Part 68 of the Federal Communications Commission's Rules and Regulations which are not connected through switching equipment must terminate only in that WATS rate state in terminal equipment or communication systems subject to part 68 of the Federal Communications Commission's Rules and Regulations.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****C. Connection of Customer-Provided Communications Systems Not Subject to Part 68 of the
Federal Communications Commission's Rules and Regulations (cont'd)****2. Institutional Procedures for Signal Power Control**

- a. When customer-provided communications systems not subject to Part 68 of the Federal Communications Commission's Rules and Regulations are connected through, (a) a Company-provided connecting arrangement or, (b) registered or grandfathered terminal equipment, communications system or protective circuitry which assures that all of the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are met at the telecommunications network interface, no further action is required. However, when a customer elects to connect such a communications system to the telecommunications network and the registered or grandfathered equipment, system or protective circuitry through which the connection is made does not provide protection for signal power control, the customer must comply with the following institutional procedures: (T)
- (1) The customer-provided communications system must be installed, operated and maintained so that the signal power (within the frequency range of 200-4000 Hertz) at the telecommunications network interface continuously complies with Part 68 of the Federal Communications Commission's Rules and Regulations.
 - (2) The operator(s)/maintainer(s) responsible for the establishment, maintenance and adjustment of the voice frequency signal power present at the telecommunications network interface must be trained to perform these functions by successfully completing one of the following:
 - (a) a training course provided by the manufacturer of the equipment used to control voice frequency signal power; or
 - (b) a training course provided by the customer or authorized representative, who has responsibility for the entire communications system, using training materials and instructions provided by the manufacturer of the equipment used to control the voice frequency signal power; or

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****C. Connection of Customer-Provided Communications Systems Not Subject to Part 68 of the
Federal Communications Commission's Rules and Regulations (cont'd)**

2. Institutional Procedures for Signal Power Control (cont'd)

a. (cont'd)

(2) (cont'd)

- (c) an independent training course (e.g., trade school or technical institution) recognized by the manufacturer of the equipment used to control the voice frequency signal power; or
- (d) in lieu of the preceding training requirements, the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with (a) through (c) preceding.

Upon request the customer is required to provide the proper documentation to demonstrate compliance with the requirements in this Paragraph (2).

- (3) At least 10 days advance notice must be given to the Company in the form of a notarized (T) affidavit before the initial connection of the customer-provided communications system. A copy of the affidavit must also be maintained at the customer's premises. The affidavit must contain the following information:
 - (a) The full name, business address, non-residence telephone number and signature of the customer or authorized representative who has responsibility for the operation and maintenance of the communications system.
 - (b) The line(s) which the communications system will be either connected to or arranged for connection to.
 - (c) A statement that all operations associated with establishment, maintenance and adjustment of the signal power present at the telecommunications network interface will comply with Part 68 of the Federal Communications Commission's Rules and Regulations.
 - (d) A statement describing how each operator/maintainer of the communications system will meet and continue to meet the training requirements for persons installing, adjusting or maintaining the communications system.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****C. Connection of Customer-Provided Communications Systems Not Subject to Part 68 of the
Federal Communications Commission's Rules and Regulations (cont'd)**

2. Institutional Procedures for Signal Power Control (cont'd)
 - b. Extra-ordinary Procedures
 - (1) The Company may invoke extra-ordinary procedures to protect the telecommunications network where one or more of the following conditions are present: (T)
 - (a) Information provided in the affidavit gives reason to believe that a violation of Part 68 of the Federal Communications Commission's Rules and Regulations or the Institutional Procedures set forth in a. preceding is likely.
 - (b) Harm has occurred and there is reason to believe this harm was a result of operations performed under the Institutional Procedures set forth in a. preceding.
 - (2) The extra-ordinary procedures which can be invoked by the Company, include: (T)
 - (a) Requiring the use of protective apparatus which either protects solely against signal power or which assures that all of the requirements of Part 68 are met at the telecommunications network interface. This protective apparatus may be provided by either the Company or the customer (T)
 - (b) Suspension of service
 - (3) A charge equal to the Maintenance of Service charge as provided in Part 3 of this tariff will apply when:
 - (a) It is necessary to send a Company employee to the premises where the connection is made because a condition set forth in b-(1) preceding exists, and (T)
 - (b) A failure to comply with Part 68 of the Federal Communications Commission's Rules and Regulations or the Institutional Procedures for signal power control in a. preceding is disclosed.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****D. Acoustic or Inductive Connections**

1. General

- a. Customers' voice or data terminal equipment (including telephotograph, electrocardiogram and electroencephalogram equipment) and communications systems may be acoustically or inductively connected at the customer's premises to the telecommunications network provided the acoustic or inductive connection is made externally to the network control signaling unit.
- b. Customer-provided tone-type address signaling is permitted through such connections, however, the services of the Company are not designed for such use and the Company makes no representation as to the reliability of address signaling which is performed in such manner. (T)

2. Minimum Protection Criteria

- a. To prevent excessive noise and crosstalk in the network, it is necessary that the power of signal which is applied by the customer's equipment to the network control signaling unit located on the customer's premises be limited so that the signal power at the output of the network control signaling unit (i.e., at the input to the network access line) does not exceed 9dB below one milliwatt when averaged over any three second interval. However, to permit each customer, independent of distance from the central office, to supply signal power which at the central office approximates 12dB below one milliwatt when averaged over any three second interval, the Company, at the customer's request, will specify, for each customer location, the signal power at the output of the network control signaling unit, which shall in no case exceed one milliwatt. (T)
- b. To protect other services, it is necessary that the signal which is applied by the customer-provided equipment to the network control signaling unit located on the customer's premises meet the following limits at the output of the network control signaling unit:
 - (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 as specified in a. preceding.
 - (2) The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16dB below one milliwatt.

**1. CONNECTIONS WITH CUSTOMER PREMISES EQUIPMENT PROVIDED BY CUSTOMERS
(cont'd)****D. Acoustic or Inductive Connections (cont'd)**

2. Minimum Protection Criteria (cont'd)

b. (cont'd)

(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 36dB below one milliwatt.

(5) The power in the band above 40,000 Hertz shall not exceed 50dB below one milliwatt.

c. To prevent the interruption or disconnection of a call, or interference with network control signaling, it is necessary that the signal applied by the customer-provided equipment to the network control signaling unit located on the customer's premises be limited so that the signal at the output of the network control signaling unit shall at no time have energy solely in the 2450 to 2750 Hertz band. If there is signal power at the output of the network control signaling unit in the 2450 to 2750 Hertz band, it must not exceed the power present at the same time in the 800 to 2450 Hertz band.

E. Accessories

1. Customer-provided accessories are devices which are mechanically attached to, or used with, the facilities furnished by the Company and which are independent of, and not electrically, acoustically or inductively connected to, the conductors in the communications path of the telecommunications system. (T)
2. Customer-provided accessories may be used with telecommunications services provided that such accessories comply with the provisions of A-1 and B-3-e(4) preceding.

2. CONNECTIONS WITH FACILITIES AND EQUIPMENT OF SPECIFIC GROUPS OF CUSTOMERS**A. Government and Right-of-Way Customers**

1. General Provision

Customers' terminal equipment and communications systems connected to the telecommunications network prior to January 1, 1980, in accordance with 2 through 8 following, may remain connected and be moved and reconnected for the life of the equipment without registration unless subsequently modified. New installations of terminal equipment and communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations must be connected to the telecommunications network in accordance with 1.B.4 preceding.

2. Connections of Certain Facilities of Power, Pipe Line and Railroad Companies

- a. Except as otherwise provided in 1. preceding, telephone facilities of an electric power company, and oil, oil products or natural gas pipe line company, or a railroad company, provided primarily to communicate with points located along a right-of-way (including premises of such company anywhere in cities, towns or villages along the right-of-way) owned or controlled by such company may, in lieu of the provisions of 1.B.3 or 1.C preceding, be connected with the telecommunications network, subject to the conditions set forth in this Paragraph 2. Such connections will be made by means of switching or connecting equipment.
- b. Such customer-provided telephone facilities may be connected to PBX switchboards or other switching or terminal equipment located in the same or different local service areas for communication with stations and private line facilities associated with said switching or terminal equipment. A PBX switchboard or other switching or terminal equipment located within the same local service areas as such customer-provided facilities, should not be connected with
- c. Customer-provided facilities may be connected with facilities provided by the Company for telecommunications service under the provisions of this paragraph 2. (T)
 - (1) in cases of emergency involving safety of life property:
 - (2) in cases of calls originated by railroad employees under circumstances indicating need for prompt action to secure or maintain the safety, continuity, or reliability of railroad service to the public, and related to the movement of passengers, mail, property, or equipment by railroad, or the repair, maintenance or construction of railroad rights-of-way, structures or equipment;

**2. CONNECTIONS WITH FACILITIES AND EQUIPMENT OF SPECIFIC GROUPS OF CUSTOMERS
(cont'd)****A. Government and Right-of-Way Customers (cont'd)**

2. Connections of Certain Facilities of Power, Pipe Line and Railroad Companies (cont'd)

c. (cont'd)

- (3) in cases where the customer-provided facilities serve locations where it is impracticable because of hazard or inaccessibility for the Company to furnish its facilities; and (T)
- (4) during an interim period in cases where the customer has arranged for replacement of said customer-provided facilities with facilities of the Company. (T)

Customer facilities referred to in (3) and (4) preceding do not include mobile radiotelephone facilities.

- d. Telephone circuits of the customer should be connected for telecommunications service only through manual switching equipment or an attendant position of a dial PBX system. Such equipment or position should be located at either or both ends of the circuit provided by the customer.
- e. Connection of a telephone circuit provided by the customer as specified in c-(3) and (4) preceding may be established at either end of such circuit, but shall not be established at both ends simultaneously.
- f. Facilities of the Company connected with facilities provided by the customer will not be used (T)
for communications of others than the customer, except that such facilities may be used for
the communications of, and be connected with facilities furnished by the Company to, other (T)
companies which
 - (1) are operated with the customer as parts of an integrated electric power, oil, oil products
or natural gas pipe line system or railroad system under direct or common ownership or
control; or
 - (2) own or operate an electric power or pipe line or railroad system jointly with the customer;
or
 - (3) own or operate electric power or pipe line or railroad facilities interconnected with those
of the customer.

Company facilities when so connected may be used for telecommunications by other (T)
companies specified in (1), (2) and (3) preceding, including calls originated by employees
of such companies, only under the circumstances set forth in c-(1) and (2) preceding.

**2. CONNECTIONS WITH FACILITIES AND EQUIPMENT OF SPECIFIC GROUPS OF CUSTOMERS
(cont'd)****A. Government and Right-of-Way Customers (cont'd)**

3. Connections of Certain Facilities of U.S. Government Executive Departments and Agencies.

Where equipment of a Department or Agency of the Executive Branch of the United States Government used for the purpose of disguising or concealing the contents or meaning of communications is to be connected to Company facilities, the head of such Department or Agency or his authorized representative shall notify the Company in writing that such connection is necessary to safeguard official information which requires protection in the interests of national defense or other confidential official information, disclosure of which to unauthorized persons would be detrimental to the public interest.

(T)
(T)

4. Connections of Certain Facilities of the U.S. Army, Navy and Air Force

- a. Except as otherwise provided in 1. preceding, facilities of a telephone system of the U.S. Department of the Army, Navy or Air Force which serves an establishment operated and administered under the direction of the Department and commanded by authorities of such establishment, may, in lieu of the provisions of 1.B.3 and 1.C preceding be connected to the telecommunications network where the Secretary of the appropriate Department certifies in writing that reasons of military necessity require that the establishment be served by a telephone system of the Department. In addition, the facilities of a temporary telephone system of such Department located off a permanent establishment of the Department for maneuvers, mobilization tests or technical service tests will be so connected. Services and facilities are furnished by the Company under a contract specifying the charges to be applied or, in the case of Centrex arrangements, under the provisions of 5. following. (T)
- b. Except as otherwise provided in 1. preceding, telephone facilities of the U.S. Department of the Army, Navy or Air Force, other than those described in a. preceding, may, in lieu of the provisions of 1.B.3 and 1.C. preceding, be connected by means of switching or connecting equipment to a PBX switchboard or other telephone switching or terminal equipment for communication with stations and private line facilities associated with said switching or terminal equipment, where the Secretary of the appropriate Department or his authorized representative notifies the Company in writing that such connection is required for reasons of military necessity. Such Department telephone facilities will be connected to the telecommunications network only in cases of emergency involving safety of life or property, unless the aforesaid Department facilities are in locations where it is impracticable for the Company to furnish its facilities. (T)

**2. CONNECTIONS WITH FACILITIES AND EQUIPMENT OF SPECIFIC GROUPS OF CUSTOMERS
(cont'd)****A. Government and Right-of-Way Customers (cont'd)**

5. Centrex Arrangements for U.S. Government-Owned Communications Systems Serving Certified Military Bases
 - a. Certified Military Bases include any establishment which (1) is operated and administered under the direction of the Department of the Army, the Department of the Navy, or the Department of the AirForce of the United States, (2) is commanded by authorities of such a Department, and (3) has a telephone system that is furnished, installed, owned and maintained by the Department involved and, upon certification in writing by the Secretary of such Department that reasons of military necessity require that the establishment be served by a telephone system of the Department, is connected to the facilities of the Company for telecommunications service. (T)
 - b. Subject to the regulations set forth in this section and at the monthly rates set forth under Centrex Service, the Company will provide Centrex Arrangements to Certified Military Bases (T) when such establishments are served by suitable dial switching equipment located on such customer's premises. When such dial switching equipment is satisfactorily arranged, Centrex Arrangements may be furnished to provide:
 - (1) Inward dialing - incoming calls from outside the military system may be made to stations of the system, when such stations are so arranged, without the aid of the attendant, by dialing the number of the station;
 - (2) Outward dialing - stations of the military system, when such stations are so arranged, may dial outgoing local calls and message toll telephone calls to dialable points;
 - (3) Identification of individual stations of the military system on outward message toll telephone calls;
 - (4) Access to a suitable switchboard or other suitable attendant position whereby calls coming into the telephone number associated with the primary listing may be completed to stations of the military system, when such stations are so arranged.

**2. CONNECTIONS WITH FACILITIES AND EQUIPMENT OF SPECIFIC GROUPS OF CUSTOMERS
(cont'd)****A. Government and Right-of-Way Customers (cont'd)**

5. Centrex Arrangements for U.S. Government-Owned Communications Systems Serving Certified Military Bases (cont'd)
- c. One primary listing will be provided without charge in accordance with the regulations set forth in Part 12, Section 1 of this tariff. Such listing shall be associated with the telephone number assigned for access to the attendant position. Additional listings may be provided in accordance with the regulations and at the rate set forth in Part 12, Section 1 of this tariff. When requested by a customer, the Company will also furnish, without charge, informative wording associated with the primary listing, and with additional listings only when such listings use the telephone number associated with the primary listing, to indicate that stations of the system may be dialed direct when the telephone numbers of the stations are known. (T)
6. Connections of Certain Facilities of U. S. Coast Guard
- Telephone lines owned and maintained by or at the expense of the Coast Guard between Coast Guard stations and between Coast Guard stations located outside a municipality and a point of connection designated by the Company may, in lieu of the provisions of 1.B.3 and 1.C preceding, be connected with telecommunications service of the Company. (T)
(T)
7. Connections of Certain Facilities of the Federal Aviation Administration
- Private mobile systems provided by the Federal Aviation Administration may, in lieu of the provisions of 1.B.3 and 1.C preceding, be connected to Company facilities for telecommunications service in cases of emergency involving communications with sites of aircraft disasters. (T)
8. Connections of Certain Facilities of Police and Fire Departments
- a. The following equipment and facilities owned and maintained by the police or fire department of the State, a municipality or other governmental authority may, in lieu of the provisions of 1.B.3 and 1.C preceding, be connected to facilities of the Company: (T)
- (1) All equipment and facilities installed prior to March 1, 1939, may be connected for telecommunications service;
- (2) Telephone circuits between premises of the department within the same exchange area may be connected to a PBX switchboard or other equipment. Only in cases of public emergency may such connection be used for telecommunications service.

**2. CONNECTIONS WITH FACILITIES AND EQUIPMENT OF SPECIFIC GROUPS OF CUSTOMERS
(cont'd)****A. Government and Right-of-Way Customers (cont'd)**

8. Connections of Certain Facilities of Police and Fire Departments (cont'd)
- b. Police radio broadcast systems owned, maintained and operated by the police department of the State, municipality or other governmental authority may, in lieu of the provisions of 1.B.3 and 1.C preceding, be connected with a PBX switchboard or other equipment for radiotelephone communication with telephone stations associated with such switchboard or equipment. Such connection may not be used with any other station of the Company except in case of public emergency. (T)

B. Other Common Carriers (OCC)

1. Communications systems provided by OCC's as listed in 2 following, may be connected with telecommunications service at the premises of customers, subject to the provisions of 1.A preceding, and also subject to the following regulations, except f. following, in lieu of those set forth in 1.C and 2.A preceding.
- a. The telecommunications service or OCC-provided communications system shall be utilized for the origination or termination of communications at the premises on which such connection is made.
- b. Connection shall be made only if the forms of electrical communication are the same and consistent with those for which the Company-provided service is offered. (T)
- c. Connection shall be made to channels not exceeding voice grade of OCC-provided systems, including channels derived from such systems.
- d. The connection shall be either through equipment that effect such connection externally to a Company-provided network control signaling unit by means of an acoustic or inductive connection for transmitting and/or receiving or through direct electrical connection. (T)
- e. Where the connection with the OCC-provided communications system involves direct electrical connection to the facilities furnished by the Company, such connection shall be made: (T)
- (1) through switching equipment provided either by the customer, the Company or the OCC; (T)
or
(2) through a channel derivation device provided either by the customer or the OCC.

Where such connection is made through a channel derivation device the provision of a. preceding does not apply.

2. CONNECTIONS WITH FACILITIES AND EQUIPMENT OF SPECIFIC GROUPS OF CUSTOMERS (cont'd)

B. Other Common Carriers (OCC) (cont'd)

1. (cont'd)

- f. Where direct electrical connection is made by means of switching equipment provided by the customer, such switching equipment and the facilities provided by the OCC shall be treated as a customer- provided communications system and the regulations applicable to the connection of such communications system, set forth in this section of the tariff, apply.

Where direct electrical connection is made by means of a channel derivation device provided by the customer, such channel derivation device and the facilities provided by the OCC shall be treated as a customer provided communications system and the regulations set forth in this section of the tariff apply, with the exception of 1.C and 2.A.

- g. The provisions of 1.A.1.b preceding apply with respect to repair or maintenance visits made by the Company at the request of the customer to his premises. (T)
- h. All arrangements concerning services of an OCC shall be made by the customer with that carrier. The furnishing of telecommunications service by the Company is not part of a joint undertaking with the OCC. (T)
- i. Where telecommunications service furnished by the Company is used in the provision of composite data service and connection of such service is made to a communications system provided by an OCC through customer-provided data switching equipment, the provisions of a. and e. preceding do not apply. (T)

2. The OCC's referred to herein and their Tariffs are:

<u>Carrier</u>	<u>Tariff Ohio No.</u>	<u>Tariff FCC No.</u>
Western Union Telegraph Co., The	1	254 & 261
Subsidiaries of MCI Communications Corp.	None	1
American Satellite Corp.	None	1
RCA Global Communication Inc.	None	93
Southern Pacific Communications Co.	None	2
Data Transmission Co. (Datran)	None	1, 2 & 3
ITT Corporate Communication Services, Inc.	None	1

**2. CONNECTIONS WITH FACILITIES AND EQUIPMENT OF SPECIFIC GROUPS OF CUSTOMERS
(cont'd)****B. Other Common Carriers (OCC) (cont'd)**

3. Conditions for Connection of OCC-Provided Communications Systems at Company Premises (T)
- a. Communications systems provided by an OCC listed in 2. preceding to a customer may be directly connected at the premises of the Company with telecommunications service furnished by the Company to that same customer. Such connection may be made (T)
- (1) through central office individual or trunk lines to permit communications via the OCC-provided communications system, to or from the customer's premises located in an exchange foreign to the exchange in which the connection is made, provided such foreign exchange is outside of Ohio; or (T)
- (2) through Centrex control switching equipment, i.e., switching equipment located on Company premises and used to provide Centrex Service in accordance with the provisions under Centrex Service in this tariff. (T)
- b. Communications systems provided by an OCC listed in 2. preceding to a customer, may be connected with WATS arranged for outward service furnished by the Company to the same customer, at the WATS central office which normally serves the customer's premises provided that (T)
- (1) the customer has a requirement to originate communications over the WATS line from premises of that customer located in an exchange of the Company; (T)
- (2) connection shall be made only if the forms of electrical communications are the same and consistent with those for which the Company-provided service is offered. (T)
- c. Such OCC-provided communications system (1) may not exceed voice grade; and (2) must utilize central office or WATS central office connecting facilities furnished to the OCC by the Company between the OCC terminal location and the point of connection on Company premises, under the provisions of Ameritech Operating Companies, FCC No. 2, Access Service Tariff. (T)

2. CONNECTIONS WITH FACILITIES AND EQUIPMENT OF SPECIFIC GROUPS OF CUSTOMERS (cont'd)

C. Composite Data Service Vendors

1. Composite data service involves the combined use of terminal equipment, customer-provided data switching equipment and the telecommunications services of the Company by a customer, (T) hereinafter referred to as a Composite Data Service Vendor (CDSV), for the purpose of data switching for others (i.e., patrons of the CDSV). Such data switching involves the interchange, control and routing of data (non-voice) messages between two or more stations, over communications facilities, without altering the content of such messages.
2. Each CDSV shall be certified by the Federal Communications Commission, pursuant to Section 214 of the Communications Act of 1934, as amended, to acquire and operate facilities to perform data switching as described in 1. preceding. A customer shall be classified as a CDSV only with respect to use of those telecommunications services which such customer utilizes in the provision of composite data service.
3. Connections of telecommunications services used in the provision of composite data service with customer-provided or OCC-provided communications systems shall be in accordance with 1.C or 2.B.1 preceding, as appropriate.
4. The CDSVs referred to herein and their tariffs are as follows:

	<u>Tariff Ohio No.</u>	<u>Tariff FCC No.</u>
Graphnet Systems Inc.	None	1
Telenet	None	1

D. International Record Carriers

1. International Record Carriers (IRC's) provide overseas telecommunications services, other than voice communications (e.g., Teletypewriter, facsimile, data, etc). These services may require the use of the telecommunications services of the Company to reach patrons' locations and to connect their patrons' terminals with overseas cable heads, radio sites and satellite earth stations. (T)
2. Each IRC shall be certified by the Federal Communications Commission pursuant to Section 214 of the Communications Act of 1934, as amended, to acquire and operate facilities as described in 1. preceding.
3. Connections of telecommunications services used in the provision of services by the IRC's shall be in accordance with 1.C or 2.B.1 as appropriate.

**2. CONNECTIONS WITH FACILITIES AND EQUIPMENT OF SPECIFIC GROUPS OF CUSTOMERS
(cont'd)****E. Miscellaneous Common Carriers**

1. Application

- a. Service is available to and from customers of Miscellaneous Common Carriers through connecting facilities provided by the Company in accordance with the provisions set forth in 1-b through 1-e following. (T)
- b. Subject to the availability of facilities and the reasonable requirements of the Company for its telecommunications services, the Company will, at the Miscellaneous Common Carrier's request, extend and physically connect its facilities with those of the Miscellaneous Common Carrier for the purpose of interchanging intrastate traffic in connection with the Miscellaneous Common Carrier's Domestic Public Land Mobile Radio Services (as defined in Part 21 of the FCC Rules). Such connection and interchange of intrastate traffic shall be as follows: (T)
 - (1) Two-way mobile traffic (T)

The Company will extend and connect its facilities between any telephone exchange whose rate center is located in the Miscellaneous Common Carrier's Reliable Service Area (as defined in Part 21 of the FCC Rules) and the Miscellaneous Common Carrier's control point(s) in or serving that Reliable Service Area.
 - (2) One-way signaling traffic (T)

The Company will extend and connect its facilities between any telephone exchange within which a signaling receiver is served by the Miscellaneous Common Carrier's system and the Miscellaneous Common Carrier's control point(s) in or serving that system.
- c. The facilities provided for connection and interchange of traffic shall not be used, switched or otherwise connected together by the Miscellaneous Common Carrier for the provision of through calling from a landline telephone to another landline telephone, nor shall they be switched or otherwise connected together by the Miscellaneous Common Carrier for the provision of through calling from a landline or mobile unit located in one Reliable Service Area (as defined by part 21 of the FCC Rules) to a landline telephone or mobile unit in another Reliable Service Area (as defined by Part 21 of the FCC Rules).

2. CONNECTIONS WITH FACILITIES AND EQUIPMENT OF SPECIFIC GROUPS OF CUSTOMERS (cont'd)**E. Miscellaneous Common Carriers (cont'd)**

1. Application (cont'd)
 - d. Specific administrative procedures, connection and operating arrangements and charges for the facilities provided by the Company to the Miscellaneous Common Carrier for the purpose of connection and interchanging traffic are as set forth in various intercarrier agreements between the Company and the Miscellaneous Common Carriers or in the tariffs of the Company as appropriate. Where the state franchise area or state authorization of the Miscellaneous Common Carrier is different than the Reliable Service Area (as defined by Part 21 of the FCC Rules), the terms and conditions of connection and interchange of traffic may be modified to recognize the extent of such state franchise or authorization. (T)
 - e. The connection and interchange of traffic as set forth in 1-a through 1-d preceding does not constitute a joint undertaking with the Miscellaneous Common Carrier for the furnishing of any service. (T)

3. CONNECTIONS OF CUSTOMER-PROVIDED TEST EQUIPMENT

Customer-provided test equipment is test equipment located at the premises of the customer and used by the customer for the detection and/or isolation of a communications service fault.

Customer-provided test equipment may be connected to the telecommunications network for an indefinite period of time, unless sooner canceled or changed, subject to the provisions of A., B. and C. following.

A. Totally Protective Connections

Customer-provided test equipment may be connected to the telecommunications network at the premises of the customer through registered or grandfathered terminal equipment, protective circuitry, or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations which, either singularly or in combination, assure that all of the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations (total protection) are met at the telecommunications network interface.

3. CONNECTIONS OF CUSTOMER-PROVIDED TEST EQUIPMENT (cont'd)**B. Interim Program for Connections of Customer-Provided Test Equipment**

Customer-provided test equipment may also be connected at the premises of the customer either (1) directly at the telecommunications network interface, or (2) through terminal equipment, protective circuitry, or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations which does not provide protection for signal power control under the following interim program provided that:

1. The customer-provided test equipment is limited to transmission signal power generating and/or detection devices, or similar devices, utilized by the customer for the detection and/or isolation of a communications service fault.
2. The customer-provided test equipment is of a type that was lawfully directly connected to the telecommunications network as of March 6, 1981. Such test equipment may remain connected, be moved or reconnected during the life of the test equipment unless it has been subsequently modified.
3. Direct connections of customer-provided test equipment or connections through Company-provided terminal equipment, or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations are made through Company-provided jacks or as otherwise authorized by the Company. (T)
(T)
(T)
4. Customer-provided test equipment must be operated in accordance with the institutional procedures for signal power control as specified in C. following.
5. The customer notifies the Company of each telecommunications network service at each premises to which the customer-provided test equipment will be connected in advance of the initial connection. The customer must also notify the Company when such test equipment is permanently disconnected at each premises. (T)
(T)
6. No customer-provided test equipment or combination of test equipment with terminal equipment, protective circuitry or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations (including but not limited to wiring) may cause electrical hazards to Company personnel, damage to Company equipment, malfunction of Company billing equipment, degradation of service to persons other than the user of the subject test equipment or the user's calling or called party. (T)
(T)

3. CONNECTIONS OF CUSTOMER-PROVIDED TEST EQUIPMENT (cont'd)**C. Institutional Procedures for Signal Power Control**

1. In accordance with B.4 preceding, the customer must comply with the following institutional procedures:
 - a. The customer must install, operate and maintain the test equipment so that its signal power at the telecommunications network interface complies with Subpart D of Part 68 of the Federal Communications Commission's Rules and Regulations.
 - b. The operator(s)/maintainer(s) responsible for the test equipment signal power present at the telecommunications network interface must be trained to perform these functions by successfully completing one of the following:
 - (1) A training course provided by the manufacturer of the test equipment, or
 - (2) a training course provided by the customer, or authorized representative of the customer, using training materials and instructions provided by the manufacturer of the test equipment, or
 - (3) an independent training course (e.g., trade school or technical institution) recognized by the manufacturer of the test equipment, or
 - (4) in lieu of the preceding training requirements, the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with (1) through (3) preceding.

Upon request, the customer is required to provide proper documentation to demonstrate compliance with the requirements in this paragraph C.1.b.

- c. For customer-provided test equipment connected at each premises after April 9, 1981, a notarized affidavit must be given to the Company prior to the initial connection of the test equipment. A copy of the affidavit must also be maintained at the customer's premises. The affidavit must contain the following information: (T)
 - (1) The full name, business address, non-residence telephone number and signature of the customer or authorized representative who has responsibility for the operation of the equipment.
 - (2) The Network Access line(s) to which the test equipment will be either connected to or arranged for connection to.

3. CONNECTIONS OF CUSTOMER-PROVIDED TEST EQUIPMENT (cont'd)**C. Institutional Procedures for Signal Power Control (cont'd)**

1. (cont'd)

c. (cont'd)

- (3) A statement that all operations associated with the establishment, maintenance and adjustment of the test equipment signal power present at the telecommunications network interface will comply with Subpart D of Part 68 of the Federal Communications Commission's Rules and Regulations.
- (4) A statement describing how each operator of the test equipment will meet and continue to meet the training requirements for persons installing, connecting, adjusting or maintaining the test equipment.

2. Extraordinary Procedures

a. The Company may invoke extraordinary procedures to protect the telecommunications network where one or more of the following conditions are present: (T)

- (1) Information provided in the affidavit gives reason to believe that a violation of Part 68 of the Federal Communications Commission's Rules and Regulations or the institutional procedures set forth in C.1 preceding is likely.
- (2) Harm has occurred and there is reason to believe this harm was a result of operations performed under the institutional procedures set forth in C.1 preceding.

b. The extraordinary procedures, which can be invoked by the Company, include: (T)

- (1) Requiring the use of protective apparatus which either protects solely against excessive signal power or which assures that all of the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are met at the telecommunications network interface.
- (2) Disconnecting service.

c. A charge equal to the maintenance of service charge provided on a non-regulated basis will apply when:

- (1) It is necessary to send a repair person to the premises where the test equipment is connected because a condition as set forth in a. preceding exists, and
- (2) a failure to comply with the institutional procedures for signal power control is disclosed.

4. PROTECTIVE CONNECTING ARRANGEMENTS (cont'd)

A. General

1. The following rates and charges apply for protective connecting arrangements furnished in connection with grandfathered connections of terminal equipment and communications systems with facilities of the Company. These rates and charges apply to all protective connecting arrangements furnished by the Company to the customer, whether or not such arrangements are connected to such customer's system. (T)
2. Any protective connecting arrangements designated for use with terminal equipment may also be used in connection with communications systems. (T)
3. Equipment and facilities included in this paragraph, other than those that are specified as customer-provided, are furnished by the Company subject to the regulations, rates and charges set forth in this tariff. (T)
4. Except as otherwise provided in this section, installations of new protective connecting arrangements will not be made (a) after July 1, 1979 for connection of terminal equipment and (b) after January 1, 1980 for connection of communications systems. Treatment with respect to grandfathered installations which include such protective connecting arrangements is covered in paragraph 1 preceding.

B. Protective connecting arrangements for customer-provided data terminal equipment (See A for availability)

	Nonrecurring Charge	Monthly Rate	USOC
1. Data access arrangements Transmission and/or reception of both voice and data requires a data access arrangement.			
a. Basic arrangement for manual operation	\$14.70	\$7.85	CDT
b. Arrangement for unattended sending and receiving through a contact closure type control interface	21.05	9.25	CBT01
Power supply, when not supplied by the customer	10.75	2.65	CBV

4. PROTECTIVE CONNECTING ARRANGEMENTS (Cont'd)

- B. Protective connecting arrangements for customer-provided data terminal equipment
(See A for availability) (Cont'd)
2. Telephotograph, Electrocardiogram and Electroencephalogram Equipment
- a. Telecommunications service is available, at the monthly rate set forth in c. following,
for telephotograph transmission on a two-point basis as follows:
- (1) for use by the press for the transmission and reception of pictures and similar
material for publication;
 - (2) for use by law enforcement agencies for the transmission and reception of
fingerprints, ballistic data, identification photographs and similar material for law
enforcement;
 - (3) for use by the armed forces of the United States for the transmission and
reception of information of military necessity essential to the national defense;
 - (4) for use by civilian defense agencies for the transmission and reception of
information essential for the discharge of their responsibilities in emergencies; and
 - (5) for use by the United States Weather Bureau for the transmission and reception of
weather information.

Telephotograph equipment provided by the customer may be used in connection with
any non-residence service furnished to the customers specified in (1) through (5)
preceding, or made available to them under a joint user arrangement. Portable
telephotograph equipment may be used also at PBX stations in guest rooms of hotels
and motels, subject to the consent of the management of the hotel or motel
concerned.

(C)

- b. Electrocardiogram and electroencephalogram equipment provided by the customer
may be used in connection with non-residence or residence services furnished to
members of the medical profession and hospitals or made available to them under a
joint user arrangement.

(C)

4. PROTECTIVE CONNECTING ARRANGEMENTS (cont'd)

B. Protective connecting arrangements for customer-provided data terminal equipment (See A for availability) (cont'd)

2. Telephotograph, Electrocardiogram and Electroencephalogram Equipment (cont'd)

	Monthly Rate	USOC
c. To connect customer-provided telephotograph, electrocardiogram or electroencephalogram equipment (including protective equipment, connection equipment monitoring receiver, key, and for portable installations a cord for connection to telephone facilities	\$2.20	367*
1) Jacks for portable protection connection equipment		
For charges see Part 3 of this tariff.		
(2) Where abnormal installation expense is incurred by the Company, the customer shall be required to pay the difference between the expense incurred by the Company and the expense which normally would have been incurred for the installation.		(T) (T)

C. Protective connecting arrangements for customer-provided voice terminal equipment (See A. for availability)

	Nonrecurring Charge	Monthly Rate	USOC
1. Voice connecting arrangements			
a. To automatically connect customer-provided transmitting and/or receiving equipment to an individual central office line	\$31.85	\$13.25	C2ACP
b. To automatically connect customer-provided transmitting and/or receiving equipment to an individual or party central office line or Centrex station terminal; and to furnish locally provided battery and locally generated ringing signals	42.70	10.40	STC

*Additional codes appear in departmental practices.

4. PROTECTIVE CONNECTING ARRANGEMENTS (Cont'd)

C. Protective connecting arrangements for customer-provided voice terminal equipment (See A. for availability) (Cont'd)

1. (Cont'd)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
c. To automatically connect customer-provided voice communications systems and/or terminal equipment to central office lines			
(1) Common equipment for a maximum of fourteen lines	48.45	31.75	8JYCE
(2) Line unit	48.45*	5.60	8JYLU
* Applicable only to the simultaneous installation of one or more units when installed subsequent to the common equipment.			
d. The protective connecting arrangements included in a, b and c preceding may also be used with PBX station lines.			
2. Recorder coupler equipment			
a. To connect attended and unattended customer-provided recording, reproducing and automatic answering and recording equipment, where two way transmission is required	\$ 42.70	\$ 12.10	RDMZR
b. To connect attended and unattended customer-provided automatic answering and recording equipment arranged to recognize ringing and provide answer and disconnect indications, where one way transmission is required	24.25	4.50	GTS
3. Alarm reporting equipment			
a. To connect unattended customer-provided originate only terminal equipment for transmitting rotary dial pulses and prerecorded voice messages, to individual central office or Centrex station line	58.85	8.10	CAU

Material formerly appeared in Exchange and Network Services Tariff,
Section 4, 1st Revised Sheet No. 49, 2nd Revised Sheet No. 50

4. PROTECTIVE CONNECTING ARRANGEMENTS (cont'd)

C. Protective connecting arrangements for customer-provided voice terminal equipment (See A. for availability) (cont'd)

	Nonrecurring Charge	Monthly Rate	USOC
3. (cont'd)			
b. To connected customer-provided originate only, or originate and answer terminal equipment to individual central office or Centrex station line	\$43.85	\$8.30	SU6AQ
c. The protective connecting arrangements in a and b preceding may also be used with PBX station lines.			

	Nonrecurring Charge	Monthly Rate	Termination Liability	USOC
4. Centrex dial dictation recording arrangement				
a. Common equipment	\$913.70	\$70.35	\$329.95	UC9
5. Centrex station access to customer-provided equipment such as, but no limited to, radio or loudspeaker paging system, dictation equipment or an information retrieval system.				
a. Connecting arrangement for trunk level access				

	Nonrecurring Charge	Monthly Rate	USOC
(1) where the connecting arrangement and switching equipment are on the same continuous property of the customer, or where the switching equipment is located on Company premises	\$55.40	\$10.40	DCK (T)
(2) where the connecting arrangement and switching equipment are on different premises (non-continuous property) of the customer	55.40	13.55	DCL
b. When the connecting arrangement is located on different premises (non-continuous property of the customer) from the switching equipment, two Type 2001 channels are required at the rates and charges specified in Part 15, Section 2 of this tariff, in addition to the rate and charge specified above for the connecting arrangement.			

4. PROTECTIVE CONNECTING ARRANGEMENTS (Cont'd)

C. Protective connecting arrangements for customer-provided voice terminal equipment (See A. for availability) (Cont'd)

6. Voice connecting arrangements

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
a. To connect customer-provided equipment to a line terminating in a key equipped telephone (control telephone) when such equipment is provided			
(1) With one supervisory contact Each line arranged, per control telephone	\$28.85	\$7.75	CEBAX
(2) With two supervisory contacts Each line arranged	\$28.85	\$7.75	CEBBX
(3) To answer incoming calls Each line arranged, per control telephone	\$28.85	\$7.75	CEBAV
b. To connect customer-provided equipment to a line terminating in a key equipped telephone (associated telephone) when such equipment is capable of automatically disconnecting the line			
Each line arranged	\$25.00	\$ 6.70	CEBAW
c. To connect customer-provided transmitting and/or receiving equipment			
Arrangement mounted internally in a telephone (control telephone)	13.75	2.75	QKP
d. To connect customer-provided equipment that provides for manually connecting an incoming call through a PBX cord switch board to an outgoing call established on a PBX trunk line, per trunk line arranged	18.25	3.05	CDX

Material formerly appeared in Exchange and Network Services Tariff, Section 4, 2nd Revised Sheet No. 51.1, Original Sheet No. 51.2

4. PROTECTIVE CONNECTING ARRANGEMENTS (Cont'd)

C. Protective connecting arrangements for customer-provided voice terminal equipment (See A. for availability) (Cont'd)

6. Voice connecting arrangements (Cont'd)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
e. To automatically connect customer-provided transmitting and/or receiving equipment bridged to an individual central office line or PBX station line terminating in a telephone, per line equipped	27.50	11.50	C2AKS
f. To manually connect and automatically disconnect customer-provided conferencing equipment to a line terminating in a key equipped telephone, per line arranged	93.00*	4.30	CEZ
*Applicable only to the first line arranged on each key equipped telephone.			
g. To connect customer-provided equipment transmitting background music to central office lines when such lines are in the hold mode or to transmit such music to paging or to both, each arrangement	\$ 13.75	\$ 2.10	FTP
7. Protective connecting arrangements for dialers			
a. To connect a customer-provided dial pulse repertory dialer	21.00	2.00	AD1
8. Connecting arrangement for customer-provided measurement devices			
a. To connect line use and timing equipment to a line (other than a line of a Centrex System) terminating in equipment arranged for rotary dial operation, per line equipped	27.50	3.60	CIV

Material formerly appeared in Exchange and Network Services Tariff, Section 4, Original Sheet No. 51.2, 1st Revised Sheet No. 51.3

4. PROTECTIVE CONNECTING ARRANGEMENTS (Cont'd)

C. Protective connecting arrangements for customer-provided voice terminal equipment (See A. for availability) (Cont'd)

8. (Cont'd)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>	
b. To connect traffic measuring equipment that detects on and off-hook conditions, dial pulse, TOUCH-TONE, and ringing signals to a line				
(1) Individual arrangements, each	21.00	.70	HZM	(D)
(2)				
(3)				(D)

D. Protective connecting arrangements for other customer-provided terminal equipment (See A. for availability)

1. To automatically connect customer-provided message register equipment to a central office trunk line

a. Each central office trunk line arranged	\$28.85	\$1.65	CEK	
b. Type 1001 channels between the customer's premises and the serving central office (one required for each trunk line) are furnished at the rates and charges set forth in Part 15, Section 2 of this tariff.				

2. (D)
|
(D)

3. To connect customer-provided call restricting equipment to a line terminating in a key telephone system, per line equipped	31.75	5.50	KTX	
				(D)

4. PROTECTIVE CONNECTING ARRANGEMENTS (Cont'd)

E. Protective connecting arrangements for customer-provided communications systems (See A. for availability)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
1.			(D)

(D)

4. PROTECTIVE CONNECTING ARRANGEMENTS (Cont'd)

E. Protective connecting arrangements for customer-provided communications systems (See A. for availability)(Cont'd)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
2. To automatically connect customer- provided switching equipment to a central office trunk line or to a special recording trunk line to provide one-way outgoing service			
a. Arrangement for a maximum of 3 trunk lines	\$130.35	\$39.20	CD8*
b. Arrangement for each trunk line in excess of 3	43.85	13.00	EWF*
3. To automatically connect customer- provided switching equipment and attendant positions to a central office trunk line or to a special recording trunk line to provide incoming and outgoing service at the attendant positions and one-way outgoing service from the switching equipment			
a. Arrangement for maximum of 3 trunk lines	Not Available		(C)
b. Arrangement for each trunk line in excess of 3	43.85	13.55	EWL*
4. To connect customer-provided switching equipment to central office trunk lines to provide DID service.			(D) (D)
Each incoming central office trunk line equipped	31.75	5.60	8JXLU
5. To terminate a line from a customer-provided communications system, with customer-provided signaling, as a tie line in a Centrex system.			
a. Four-wire voice transmission			
(1) Per Centrex CU termination	63.45	15.85	C24
(2) Per Centrex CO termination	79.60	43.85	C2H
b. Two wire voice transmission			
Per Centrex CU termination	63.45	6.70	C2K

*Additional codes appear in departmental practices.

4. PROTECTIVE CONNECTING ARRANGEMENTS (Cont'd)

E. Protective connecting arrangements for customer-provided communications systems (See A. for availability)(Cont'd)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
6. Key telephone system terminations			
a. To connect a line from a customer-provided communications system to a key equipped telephone. Each customer system line: Not arranged to provide supervisory signals	-	\$ 6.10	CD5
b. To terminate, without connection to telecommunications service, a line from a customer-provided communications system in a key telephone system associated with the customer's telecommunications service. The rate and charges for this arrangement are those specified for a key equipped telephone of a key telephone system.			
7. To terminate a line from a customer-provided communications system, with customer-provided signaling, as a tie line in a PBX.			
a. Four-wire voice transmission Per PBX termination	See 5-a-(1) preceding		C24
b. Two-wire voice transmission Per PBX termination	\$55.00	5.80	C27

Material formerly appeared in Exchange and Network Services Tariff, Section 4, Original Sheet No. 55

4. PROTECTIVE CONNECTING ARRANGEMENTS (Cont'd)

E. Protective connecting arrangements for customer-provided communications systems (See A. for availability)(Cont'd)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
8. Radio Paging, Information Retrieval and Dial Dictation			
The following interface arrangement provides access via a customer-provided key telephone system, COM KEY 718 System or COM KEY 2152 System to one or two-way radio paging, information retrieval and/or dictation equipment access may be via a key of the key equipped telephones of the system or via a dial code of an associated dial intercommunicating arrangement.			
Interface arrangement	\$ 89.00	\$17.00	RPDX1
9. Dial access to radio paging systems, for use with DIMENSION PBX			
One port arrangement			
a. Access arrangement	254.00	46.00	
b. Additional equipment for DIMENSION PBX	947.00	47.00	1PRAD
10. To connect a line from a customer-provided communications system to an attendant position at a cord switchboard.			
Not conditioned to accept customer provided supervisory signals	25.00	1.45	CD4

Material formerly appeared in Exchange and Network Services Tariff, Section 4, Original Sheet No. 56

5. CONNECTIONS FOR PRIVATE LINE SERVICES**5.1 General Provisions**

- A. Terminal equipment and communications systems provided by the customer may be connected at the customer's premises to private line services furnished by the Company where such connections are made in accordance with the provisions of Part 15, Section 1 of this tariff and this paragraph 5. (T)

Telecommunications services as used herein includes Exchange Service, Message Toll Telephone Service and Wide Area Telecommunications Service (WATS).

B. Responsibility of the Customer

1. The customer shall be responsible for the installation, operation and maintenance of all of that customer's terminal equipment and/or communications system. No combination of such terminal equipment or communications system shall require change in or alteration of the equipment or services of the Company, cause electrical hazards to Company personnel, damage to Company equipment, malfunction of Company billing equipment, or degradation of service to persons other than the user of the subject terminal equipment or communications system, his calling or called party. Upon notice from the Company that his terminal equipment or communications system is causing such hazard, damage, malfunction or degradation of service the customer shall make such change as shall be necessary to remove or prevent such hazard, damage, malfunction or degradation of service. (T)
2. Where the customer provides a data set(s) on a given private line, it shall be the responsibility of the customer to ensure the continuing compatibility of such data set(s) with the service furnished by the Company. (T)
3. Where equipment or facilities of the customer are connected to equipment or facilities of the Company, the provisions of Paragraph 1 preceding apply with respect to service difficulty and other trouble reports that involve visits by the Company to the premises of the customer or authorized user or joint user. (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.1 General Provisions (cont'd)**

- C. Responsibility of the Company (T)
1. Private line service is not represented as adapted to the use of customer-provided equipment or systems and where such equipment or system is connected to Company facilities the responsibility of the Company shall be limited to the furnishing of facilities suitable for private line service and to the maintenance and operation of such facilities in a manner proper for such private line service. Subject to this responsibility the Company shall not be responsible for (1) the through transmission of signals generated by the customer-provided equipment or system, or for the quality of, or defects in, such transmission or (2) the reception of signals by such customer-provided equipment or system, or (3) address signaling where such signaling is performed by customer-provided or Other Common Carrier provided tone-type signaling equipment. (T)
 2. The Company will, at the customer's request, provide information concerning interface parameters, including the number of ringers which may be connected to a particular line, needed to permit customer-provided terminal equipment to operate in a manner compatible with the telecommunications network. (T)
 3. The Company may make changes in its telecommunications network, equipment, operations or procedures, where such action is not inconsistent with Part 68 of the Federal Communications Commission's Rules and Regulations. If such changes can be reasonably expected to render any customer's terminal equipment or communications system incompatible with the telecommunications network, or require modification or alteration of such customer-provided terminal equipment or communications systems, or otherwise materially affect its use or performance, the customer will be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service. (T)
 4. Where the requirement for protective equipment is due to circumstances beyond the control of the customer, authorized user or joint user, such as the proximity of an electrical power generating or distributing station, high frequency radio stations or diathermy equipment except in connection with service furnished to a customer, authorized user or joint user operating such station or equipment, the Company will provide the required equipment. (T)

D. Recording of Two-Way Telephone Conversations

Private line service is not represented as adapted to the recording of two-way telephone conversations. When customer-provided voice recording equipment is used with private line service which is connected to telecommunications services, the provisions of Paragraph 1 preceding apply to such private line service.

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.1 General Provisions (cont'd)**

E. Violation of Regulations

Where any terminal equipment or communications system of a customer is used with private line services furnished by the Company and any of the provisions in 5 are violated, the Company will take such immediate action as appropriate for the protection of its facilities and will promptly notify the customer of the violation. The customer shall discontinue such use of the equipment or system or correct the violation and shall confirm in writing to the Company within ten days, following the receipt of written notice from the Company, that such use has ceased or that the violation has been corrected. Failure of the customer to discontinue such use or to correct the violation and to give the required written confirmation to the Company within the time stated above shall result in cancellation of the customer's service in accordance with the provisions of Part 15, Section 1 of this tariff, until such time as the customer complies with the provisions of this tariff. (T)

5.2 Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations

A. Connections of Registered Equipment

"Registered Equipment" is equipment which complies and has been approved within the Registration provisions of Part 68 of the Federal Communications Commission's Rules and Regulations. *A customer's registered terminal equipment, registered protective circuitry, and registered communications systems may be connected to those private line services specified in 1 and 2 following, subject to Part 68 of the Federal Communications Commission's Rules and Regulations, 5.1 preceding, this paragraph, 5.2.A and Paragraph 1 preceding.

1. The connection of registered terminal equipment and registered PBX systems may be made only at the customer's premises to Series 2000 or 3000 private line service that present a two wire or four wire loop signaling interface for such connection under the following conditions:

* Any reference in this tariff to Part 68 of the Federal Communications Commission's Rules and Regulations includes the Commission's Orders relating thereto.

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.2 Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)****A. Connections of Registered Equipment (cont'd)****1. (cont'd)**

- a. Registered terminal equipment, registered protective circuitry, and registered key telephone systems may be connected to the station end of private line services furnished in connection with off-premises stations.
- b. Registered PBX Systems may be connected, as a trunk termination, to the station end of private line services furnished in connection with off-premises stations.
- c. Registered terminal equipment, registered protective circuitry, and registered key telephone systems may be connected to CCSA access lines.

2. The connection of registered terminal equipment and registered PBX systems may be made only at the customer's premises to Series 2000 or 3000 private line service that present an interface for either two or four wire transmission, with separate E and M signaling leads conventionally known as Type I (battery/ground) or Type II (contact closure). Such E and M signaling leads are those terminal equipment or PBX leads (other than voice or data communications leads) used for the purpose of transferring supervisory or address signals across the interface.
3. Jacks to connect registered equipment with the private line services covered in 1 and 2 preceding are furnished at the charges set forth in Part 3, Section 1 of this tariff.

B. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems**1. Direct Connections**

- a. "Grandfathered Communications Systems" are customer-provided communications systems (including their equipment, premises wiring and protective circuitry, if any) considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because
 - (1) such systems were connected to the telecommunications network or the private line services specified in 5.2.A.1 preceding, prior to January 1, 1980 and were of a type system which was directly connected (i.e. without company-provided connecting arrangements) to the telecommunications network or the private line services specified in 5.2.A.1 preceding, in accordance with any telephone company's tariffs, as of June 1, 1978; or (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.2 Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

- B. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
1. Direct Connections (cont'd)
- a. (cont'd)
- (2) such systems are connected to the private line services specified in 5.2.A.2 preceding, prior to May 1, 1983 and are of a type system which was directly connected (i.e. without telephone company-provided connecting arrangements) to the private line services specified in 5.2.A.2 preceding, in accordance with any Company's tariffs, as of April 30, 1980. (T)
- b. "Grandfathered Terminal Equipment" is customer-provided terminal equipment (including protective circuitry if any) considered to be grandfathered under Part 68 of the Federal Communications Commission's Rule and Regulations because
- (1) such terminal equipment was connected to the telecommunications network or the private line services specified in 5.2.A.1 preceding, prior to July 1, 1979 and was of a type of terminal equipment which was directly connected (i.e. without company-provided connecting arrangements) to the tele-communications network or the private line services specified in 5.2.A.1 preceding, in accordance with any telephone company's tariffs, as of October 17, 1977; or (T)
- (2) such terminal equipment is connected to the private line services specified in 5.2.A.2 preceding, prior to May 1, 1983 and is of a type of terminal equipment which was directly connected (i.e. without company-provided connecting arrangements) to the private line services specified in 5.2.A.2 preceding, in accordance with any telephone company's tariffs, as of April 30, 1980. (T)
- c. Grandfathered terminal equipment and grandfathered communications systems, directly connected to the private line services specified in 5.2.A.1 preceding, are subject to the provisions of Paragraph 1 preceding.
- d. Grandfathered terminal equipment and grandfathered communications systems, directly connected to the private line services specified in 5.2.A.2 preceding, on April 30, 1980, may remain connected for the life of the equipment without registration, and may be modified only in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations, subject to the following:

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.2 Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)****B. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)****1. Direct Connections (cont'd)****d. (cont'd)**

- (1) all such connections shall comply with the minimum protection criteria set forth in 5.3.E following, and
- (2) no changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.

e. Until May 1, 1983, new installations of terminal equipment or communications systems which have been grandfathered may be connected for use with the private line services specified in 5.2.B.2 preceding, subject to the following:

- (1) the customer shall notify the Company when such equipment or systems are to be connected and shall notify the Company when such equipment or systems are to be permanently disconnected; such notification shall include a description of the equipment including the manufacturer's name, model number, and type of equipment; (T)
(T)
- (2) all such connections are made through Company-provided standard jacks or are otherwise connected by the Company; (T)
(T)
- (3) all such connections shall comply with the minimum protection criteria set forth in 5.3.E following;
- (4) premises wiring associated with communications systems shall conform to Part 68 of the Federal Communications Commission's Rules and Regulations; and
- (5) no changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.

f. Additions to grandfathered terminal equipment or grandfathered communications systems specified in d. and e. preceding, may be made, subject to e. (1) through (5) preceding,

- (1) until May 1, 1983, where the equipment being added is of a type which has been grandfathered, and
- (2) after May 1, 1983, where the equipment being added is grandfathered.

Additions of registered equipment are subject to 5.2.A. preceding.

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.2 Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

- B. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
1. Direct Connections (cont'd)
 - g. Systems connected pursuant to d. through f. preceding, may remain connected and be moved and reconnected, in accordance with e. (1) through (5) preceding, for the life of the equipment and may be modified only in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations.
 - h. Customer-provided terminal equipment and customer-provided communications systems connected via customer-provided grandfathered protective circuitry are subject to the provisions of a. through g. preceding.
 2. Connections through Connecting Arrangements Provided by the Company (T)
 - a. "Grandfathered Connections of Communications Systems" are connections via company-provided connecting arrangements of customer-provided communications systems (including their equipment and premises wiring) considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because (T)
 - (1) such connections to the telecommunications network or the private line services specified in 5.2.A.1 preceding, were made via company-provided connecting arrangements prior to January 1, 1980 and such connecting arrangements are of a type of connecting arrangement connected to the telecommunications network or to the private line services specified in 5.2.1 preceding, in accordance with any telephone Company's tariffs, as of June 1, 1978; or (T)
 - (2) such connections to the private line services specified in 5.2.A.2 preceding, are made via telephone company-provided connecting arrangements priority May 1, 1983 and such connecting arrangements are of a type of connecting arrangement connected to the private line services specified in 5.2.A.2 preceding, in accordance with any telephone company's tariffs, as of April 30, 1980. (T)
 - b. "Grandfathered Connections of Terminal Equipment" are connections via company-provided connecting arrangements of customer- provided terminal equipment considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.2 Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

- B. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
2. Connections through Connecting Arrangements Provided by the Company (cont'd) (T)
- b. (cont'd)
- (1) such connections to the telecommunications network or the private line services specified in 5.2.A.1 preceding, were made via company-provided connecting arrangements prior to July 1, 1979 and such connecting arrangements are of a type of connecting arrangement connected to the telecommunications network or the private line services specified in 5.2.A.1 preceding, in accordance with any telephone company's tariffs, as of October 17, 1977; or (T)
- (2) such connections to the private line services specified in 5.2.A.2 preceding, are made via company-provided connecting arrangements prior to May 1, 1983 and such connecting arrangements are of a type of connecting arrangement connected to the private line services specified in 5.2.A.2 preceding, in accordance with any telephone company's tariffs, as of April 30, 1980. (T)
- c. Grandfathered connections of terminal equipment and grandfathered connections of communications systems to the private line services specified in 5.2.A.1 preceding, are subject to the provisions of Paragraph 1 preceding.
- d. Grandfathered connections of terminal equipment and grandfathered connections of communications systems to the private line services specified in 5.2.A.2 preceding, are subject to the following:
- (1) Until May 1, 1983, the Company will provide connecting arrangements for installations of new terminal equipment or communications systems that are subject to Part 68 of the Federal Communications Commission's Rules and Regulations. After May 1, 1983, Company-provided connecting arrangements will only be provided, to the extent that such connecting arrangements are available, to reconnect terminal equipment or communications systems which were previously connected through connecting arrangements to the private line services specified in 5.2.A.2 preceding. (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.2 Connections Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

- B. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
2. Connections through Connecting Arrangements Provided by the Company (cont'd) (T)
- d. (cont'd)
- (2) Grandfathered connections of terminal equipment and grandfathered connections of communications systems, in accordance with (1) preceding, may remain connected and be moved and reconnected for the life of the equipment and may be modified only in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations. Connecting arrangements used for such moves and reconnections will continue to be provided by the Company, subject to their availability. (T)
- (3) Network control signaling shall be performed by equipment furnished, installed and maintained by the Company, except that customer-provided tone-type address signaling is permissible through the Company-provided connecting arrangement. (T)
- (4) The connections specified in (1) through (3) preceding must comply with the minimum protection criteria specified in 5.3.E following. (T)

5.3 Connections Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations

- A. General
1. Connecting arrangements are not required and minimum protection criteria are not applicable where customer-provided terminal equipment or communication systems are connected with the following channels when such channels are used for the types of transmission specified herein due to the nature of the service provided and/or the type of channels and equipment used.

Types 1001, 1002A, 1002AA, 1002B, 1002C, 1005 and 1006
Type 2002
Type 6003

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.3 Connections Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)****A. General (cont'd)**

2. Except as otherwise provided in 5.2 preceding, customer's terminal equipment and communications systems may be electrically connected to private line services in accordance with this 5.3.
 - a. When the terminal equipment or communications system is connected with private line service furnished by the Company and such private line service is not arranged for connection to telecommunications services, such connections shall be made to an interface provided by the Company. (T)
 - b. When the terminal equipment or communications system is connected with private line service furnished by the Company and such private line service is arranged for connection to telecommunications services: (T)
 - (1) such connections shall be made through a connecting arrangement as provided in this 5.3; and,
 - (2) the connection shall be such that the functions of network control signaling (except customer-provided tone type address signaling through a Company-provided connecting arrangement) are performed by equipment furnished by the Company. (T)

B. Data Terminal Equipment

1. Direct Electrical Connection
 - a. Customer-provided terminal equipment which involves direct electrical connection to facilities furnished for private line service by the Company, may be used with such facilities for such purpose under the conditions set forth below: (T)
 - (1) The customer shall be responsible for ordering and specifying the type of channel for operation with his data processing equipment. The undertaking of the Company is to furnish the channels as ordered and specified by the customer. (T)
 - (2) Except as otherwise specified in (3) following, when the connection of data terminal equipment requires the use of data sets, the data sets are also provided by the customer except that the Company shall provide all data sets located in Company central offices. It shall be the responsibility of the customer to ensure the continuing compatibility of his data set(s) with the facilities furnished by the Company. (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.3 Connections Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)****B. Data Terminal Equipment (cont'd)****1. Direct Electrical Connection (cont'd)****a. (cont'd)**

- (3) To protect the telecommunications network, the connection of customer-provided terminal equipment to private line facilities shall be through a connecting arrangement as described below, when such facilities are arranged for connection to exchange and long distance message telecommunications service or a WATS access line.

(a) Connecting (Data Access) Arrangement

Where the customer elects to use data terminal equipment through a data access arrangement, the customer shall also furnish the equipment which performs the functions of data signal conditioning and the Company shall furnish the data access (T) arrangement for use with the network control signaling unit.

- b. Customer's data equipment which involves direct electrical connection must comply with the minimum protection criteria set forth in E. Following.
- c. The rates and charges for connecting arrangements are included in Paragraph 4 preceding.

2. Acoustic and Inductive Connections

- a. Customer-provided terminal equipment may be acoustically or inductively connected with Company facilities for private line service provided the acoustic or inductive connection is (T) made externally to voice transmitting and receiving equipment.
- b. Such data equipment which involves acoustic or inductive connections must comply with the minimum protection criteria set forth in E. following.

C. Voice Terminal Equipment**1. Direct Electrical Connection**

- a. Customer-provided voice terminal equipment which involves direct electrical connection to facilities furnished for private line service by the Company, may be used with such facilities (T) for such purpose under the conditions set forth below:

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.3 Connections Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

C. Voice Terminal Equipment (cont'd)

1. Direct Electrical Connection (cont'd)

a. (cont'd)

To protect the telecommunications network, the connections of such voice terminal equipment to private line facilities shall be through a connecting arrangement, when such facilities are arranged for connection to exchange and long distance message telecommunications service or a WATS access line.

b. Customer's voice transmitting equipment which involves direct electrical connection must comply with the minimum protection criteria set forth in E. following.

c. Attested voice terminal equipment may be used with private line services under regulations set forth in Paragraph 1 preceding.

d. The rates and charges for connecting arrangements are included in Paragraph 4 preceding.

2. Acoustic and Inductive Connections

a. Customer-provided voice terminal equipment may be acoustically or inductively connected with Company facilities for private line service provided the acoustic or inductive connection (T) is made externally to voice transmitting and receiving equipment.

b. Such voice transmitting equipment which involves acoustic or inductive connections must comply with the minimum protection criteria set forth in E. following.

D. Communications Systems

1. Direct Electrical Connection

Customer-provided communications systems which involve direct electrical connection to the facilities furnished for private line service by the Company may be used with such facilities as (T) specified in a. through c. following.

a. Customer-provided communications systems, including channels derived from such systems, may be connected with private line services of voice grade or less at the premises of the customer provided that:

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.3 Connections Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

D. Communications Systems (cont'd)

1. Direct Electrical Connection (cont'd)

a. (cont'd)

- (1) The customer has a regular and continuing requirement for the origination or termination of communications over the communications system and the normal mode of operation of the communications system shall be to provide communications originating or terminating at the premises on which the connection is made.
- (2) The connection shall be made through switching equipment provided by the customer.
- (3) The connection shall be to Series 2000 or 3000 channels furnished by the Company (T) or to channels created therefrom in accordance with the provisions of Part 15, Section 1 of this tariff.
- (4) To protect the telecommunications network, the connection of a customer-provided communications system with facilities furnished for private line service which are arranged for connection to exchange and long distance message telecommunications service or A WATS access line shall be through
 - (a) a connecting arrangement as provided in Paragraph 4 preceding, or
 - (b) registered or grandfathered terminal equipment, communications system, or protective circuitry which, either singularly or in combination assures that the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are met at the private line interface.

Customer-provided communications systems which involve direct electrical connection must comply with the minimum protection criteria, set forth in E following.

In lieu of the total hardware protection requirements in this paragraph (4), an alternative method for control of signal power only, as covered in Paragraph 1 preceding, is available for the connections described in this paragraph D-1.

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.3 Connections Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

D. Communications Systems (cont'd)

1. Direct Electrical Connection (cont'd)

- b. Where private line service furnished by the Company is used in the provision of composite data service as described in Paragraph 2 preceding, and connection of such private line service is made to a customer-provided communications system through customer-provided data switching equipment, the provisions in a-(1) and (2) preceding do not apply. (T)

c. Series 10000 Channels

Customer-provided communications systems may be connected through connecting arrangements furnished by the Company with Type 10001 channels (entrance facilities) furnished for the purpose of extending the customer-provided communications system to a premises of the customer. The Type 10001 channel may be connected at such customer's premises to other customer-provided communications systems in accordance with a, a. (1) and a.(2) preceding. (T)

2. Acoustic and Inductive Connections

Customer-provided communications systems may be acoustically or inductively connected with Company facilities for private line service as specified in a. and b. following, provided the acoustic or inductive connection is made externally to voice transmitting and receiving equipment. (T)

- a. Such communications systems may be connected to private line services at the premises of the customer where the customer has a regular and continuing requirement for the origination or termination of communications over the communications system provided that:
- (1) The normal mode of operation of the customer-provided communications system shall be to provide communications originating or terminating at the premises on which the connection is made.
 - (2) The connection shall be to Series 2000 or 3000 channels furnished by the Company. (T)
- b. Communications systems which involve acoustic or inductive connections must comply with the minimum protection criteria set forth in E. following.

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.3 Connections Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)****E. Minimum Protection Criteria**

To protect Company facilities and the services furnished to the general public by the Company (T)
from harmful effects, the signals applied to Company facilities by customer-provided terminal or (T)
communications systems must comply, except as set forth in A. preceding, with the applicable
minimum protection criteria.

1. Direct Electrical Connection

Data equipment, voice transmitting equipment and communications systems that involve
direct electrical connection must comply with the following criteria:

- a. Since private line channels utilize Company facilities in common with other services it is (T)
necessary in order to prevent excessive noise and crosstalk that the power of the signal
applied to the Company lines be limited. Because each private line service is individually (T)
engineered a single valued limit for all applications cannot be specified. Therefore, the
power of the signal which may be applied by the customer-provided equipment to Company (T)
interface located on the customer's premises will be specified by the Company for each (T)
application to be consistent with the signal power allowed on the telecommunications
network.
- b. To protect other services from interference at frequencies which are above the band of
service provided, the Company will specify the acceptable signal power in the following (T)
bands to be applied by the customer-provided equipment to the Company interface to insure (T)
that the input to the Company line does not exceed the limits indicated: (T)
 - (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 as specified in a. above.
 - (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 36db
below one milliwatt.
 - (5) The power in the band above 40,000 Hertz shall not exceed 50db below one milliwatt.

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.3 Connections Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

E. Minimum Protection Criteria (cont'd)

1. Direct Electrical Connection (cont'd)

- c. Where there is connection to exchange and long distance message telecommunications service or a WATS access line, to prevent the interruption or disconnection of a call, or interference with network control signalling, it is necessary that the signal applied by the customer-provided equipment or communications system to the Company interface located on the customer's premises at no time have energy solely in the 2450 to 2750 Hertz band. If signal power is in the 2450 to 2750 Hertz band, it must not exceed the power present at the same time in the 800 to 2450 Hertz band. (T)

2. Acoustic and Inductive Connections

Customer-provided data equipment, voice transmitting equipment and communications systems that involve acoustic or inductive connections must comply with the following criteria:

- a. Since private line channels utilize Company facilities in common with other services it is necessary in order to prevent excessive noise and crosstalk that the power of the signal applied to the Company lines be limited. Because each private line service is individually engineered a single valued limit for all applications cannot be specified. Therefore, the power of the signal which may be applied by the customer-provided equipment to the Company interface located on the customer's premises will be specified by the Company for each application to be consistent with the signal power allowed on the telecommunications network. (T)
- b. To protect other services from interference at frequencies which are above the band of the service provided, the Company will specify the acceptable signal power in the following bands to be applied by the customer-provided equipment to the Company interface to insure that the input to the Company line does not exceed the limits indicated: (T)
- (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 as specified in a. above.
 - (2) The power in the band from 4,000 Hertz to 10,000 Hertz shall not exceed 16db below one milliwatt.

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.3 Connections Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)**

E. Minimum Protection Criteria (cont'd)

1. Direct Electrical Connection (cont'd)

b. (cont'd)

- (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 36db below one milliwatt.
- (5) The power in the band above 40,000 hertz shall not exceed 50db below one milliwatt.

- c. Where there is connection to telecommunications services, to prevent the interruption or disconnection of a call or interference with network control signaling, it is necessary that the signal applied by the customer-provided equipment to the Company voice transmitting and receiving equipment located on the customer's premises to be limited so that the signal at the output of the Company voice transmitting and receiving equipment (i.e., at the input to the Company line) shall at no time have energy solely in the 2450 to 2750 Hertz band. If there is signal power at the output of the Company voice transmitting and receiving equipment in the 2450 to 2750 Hertz band, it must not exceed the power present at the same time in the 800 to 2450 Hertz band. (T)

F. Accessories

Customer-provided accessories may be used with the facilities furnished by the Company for private line service provided that such accessories comply with the provisions of 5.1.B preceding. (T)

5.4 Channel Derivation Devices

Customer-provided channel derivation devices which are used to create additional channels in accordance with Part 15, Section 1 of this tariff may be connected to facilities furnished for private line service by the Company. Such connections are subject to the regulations contained in 5.1 and 5.2 preceding. (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.5 Other Connections**

(T)

- A. Except as otherwise provided in 3 and 4 following, customer facilities for private line voice, data transmission, teletypewriter or Morse, telephotograph or remote metering, supervisory control and miscellaneous signaling purposes will be connected, as provided in 1. and 2. below, with Company services furnished for such purposes under this tariff. (T)

1. U.S. Army, Navy and Air Force

Facilities of the U.S. Department of the Army, Navy or Air Force may, in lieu of the provisions in 5.3.D preceding, be connected with facilities of the Company, subject to the regulations in a. to d., inclusive, where the Secretary of the Department or his authorized representative notifies the Company in writing that such connection is required for reasons of military necessity. Such connections will be made by means of switching or connecting equipment. (T)

- a. Telephone facilities of the aforesaid Departments will be connected to interexchange private line services furnished by the Company for voice transmission and utilizing a Type 2001 channel for communication with stations associated with such services; provided, however, that such Department facilities will not be connected with the exchange or toll network to form a through connection except in cases of emergency involving safety of life or property, unless such facilities are provided in locations where it is impracticable for the Company to furnish its facilities. (T)
- b. Teletypewriter or Morse, telephotograph, data transmission, remote metering, supervisory control or miscellaneous signaling facilities of the aforesaid Departments will be connected to private line facilities furnished for such purposes.
- c. Private line service channels will be furnished by the Company between a terminal of Department facilities within or near a telephone exchange area or local service area and a location within such exchange or local service area for connection at such location with terminal equipment furnished by the Department. (T)
- d. Equipment provided on the Department facilities for the purpose of deriving voice, teletypewriter or Morse, telephotograph, data transmission, remote metering, supervisory control or miscellaneous signaling channels may be used, if suitable for such use, to derive such channels over private line channels furnished by the Company as provided in c. preceding. (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.5 Other Connections (cont'd)**

(T)

A. (cont'd)

2. Power, Pipe Line and Railroad Companies

- a. Facilities of an electric power company, or oil, oil products or natural gas pipe line company, or railroad company provided primarily to communicate with points located along a right-of-way (including premises of such company anywhere in cities, townships or villages along the right-of-way) owned or controlled by such company and extending between or beyond exchange areas of the Company may, in lieu of the provisions in 5.3.D preceding, be connected with facilities furnished by the Company to the same customer, subject to the regulations in a. to h., inclusive. Such connections will be made by means of switching or connecting equipment. (T)
- b. Such customer telephone facilities will be connected to private line services furnished by the Company for voice transmission and utilizing a Type 2001 channel, when furnished to the same customer, for communications with stations associated with such services; provided, however, that facilities of the customer will not be connected with the exchange or toll network to form a through connection except as follows: (T)
 - (1) i. in cases of emergency involving safety of life or property;
 - ii. in addition, in cases of calls originated by railroad employees under circumstances indicating need for prompt action to secure or maintain the safety, continuity, or reliability of railroad service to the public, and related to the movement of passengers, mail, property, or equipment by railroad, or the repair, maintenance, or construction of railroad rights-of-way, structures, or equipment;
 - (2) in cases where the customer facilities serve locations where it is impracticable because or hazard or inaccessibility for the Company to furnish its facilities; and (T)
 - (3) during an interim period in cases where the customer has arranged for replacement of said customer facilities with facilities of the Company. (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.5 Other Connections (cont'd)**

(T)

A. (cont'd)

2. Power, Pipe Line and Railroad Companies (cont'd)

- c. Telephone circuits of the customer extending between or beyond exchange areas of the Company will be connected with the exchange or toll network to form a through connection only through the customer's manual switching equipment, or an attendant position of dial PBX equipment. Such equipment or position may be located at either or both ends of the customer's circuit. (T)
- d. Connection of a customer's telephone circuit as specified in A.2.b.(1)ii, (2) or (3) preceding may be established at either end of such circuit, but shall not be established at both ends simultaneously.
- e. Customer teletypewriter or Morse, telephotograph, data transmission, remote metering, supervisory control or miscellaneous signaling facilities will be connected to private line facilities furnished for such purposes to the same customer by the Company. (T)
- f. Facilities of the Company, when connected with facilities of the customer, will not be used for communications of others than the customer, except that such facilities may be used for the communications of, and be connected with facilities furnished by the Company to, other companies which (a) are operated with the customer as parts of an integrated electric power, oil, oil products or natural gas pipe line system or railroad system under direct or common ownership or control; or (b) own or operate an electric power or pipe line or railroad system jointly with the customer; or (c) own or operate electric power or pipe line or railroad facilities interconnected with those of the customer. Company facilities when so connected may be connected with the exchange or toll network to form a through connection for communications of other companies specified in (a), (b) or (c) preceding, including calls originated by employees of such companies, only under the circumstances set forth in A.2.b(1) preceding. (T)
- g. Private line service will be furnished by the Company between a terminal of customer facilities within or near a telephone exchange area or local service area and a location within such exchange or local service area for connection at such location with terminal equipment furnished by the customer. For the purpose of this regulation, the terminal of the customer's facilities shall be considered a station in determining mileage measurements and charges. (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.5 Other Connections (cont'd)**

(T)

A. (cont'd)

2. Power, Pipe Line and Railroad Companies (cont'd)

- h. Equipment provided by the customer on his circuits for the purpose of deriving voice, teletypewriter or Morse, telephotograph, data transmission, remote metering, supervisory control or miscellaneous signaling channels may be used, if suitable for such use, to derive such channels over private line channels furnished by the Company as provided in g. preceding. (T)
3. Customer-provided terminal equipment and communications systems connected to the private line services specified in 5.2.A.1 preceding, and in accordance with 5.5.A.1 or 2 preceding, prior to January 1, 1980 may remain connected and be moved and reconnected for the life of the equipment without registration unless subsequently modified. New installations of customer-provided terminal equipment or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations connected to such private line services must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations. (T)
4. Effective May 1, 1983, new installations of or additions to Customer- provided terminal equipment and communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations, which are connected to such Private line services specified in 5.2.A.2 preceding, and in accordance with 5.5.A.1 or 2 preceding, must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations. (T)

B. Telephotograph Equipment

Telephotograph equipment used by the armed forces of the United States, civilian defense agencies, law enforcement agencies, and the press may be used in connection with a private line for voice communication furnished to such customers by the Company, subject to the regulations specified in Paragraph 4 preceding. (T)

C. U.S. Government Executive Departments and Agencies

Equipment of a Department or Agency of the Executive Branch of the U.S. Government used for the purpose of disguising or concealing the contents or meaning of communications may be connected with Company furnished private line services where the head of the Department or Agency whose equipment is to be connected, or his authorized representative, notifies the Company in writing that such connection is required to safeguard official information in the interest of national defense, or other confidential official information disclosure of which to unauthorized persons would be detrimental to the public interest. Such connections shall be made by means of connecting equipment or arrangements furnished by the Company. (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.5 Other Connections (cont'd)**

(T)

D. Civil Air Defense Warning Systems

Civil Air Defense Warning Systems, furnished only to Civil Defense Agencies and other users approved by such Civil Defense Agencies, provide a means whereby authorized Civil Defense Agencies can alert schools, hospitals, institutions, factories, essential individuals, the general public, etc., in case of emergency. Warning signals are originated by authorized personnel of Civil Defense Agencies by means of special dial equipment located at a control station and connected by one-way channels to receiving stations. Such receiving stations are equipped either with (1) bell and lights sets which, when the signal from the control station is received, sound coded bells and display flashing lights, or (2) siren control arrangements which activate customer-provided sirens.

Connection of customer-provided siren equipment to Company provided channels shall only be made at the Siren Control Arrangement provided by the Company at receiving stations. (T)

E. Business Machine Systems

Customer-provided business machines or business machine systems, which assemble, store or process data may be connected to private line teletypewriter facilities furnished by the Company by continuous tape relay, or, through connecting equipment furnished by the Company, by a direct electrical connection, for the purpose of receiving or transmitting such data in the form of teletypewriter signals, provided that channels of the Company shall not, through such connection, be interconnected with the channels of others, except as provided in 5.5.A. preceding. (T)

F. Private Mobile Radiotelephone Systems

Customer-provided private mobile radiotelephone systems may be connected to private line services furnished by the Company utilizing a Type 2002 channel for voice communications, when furnished to the same customer for communications with stations associated with such services; provided however, that such stations may not be connected to private mobile radiotelephone systems through manual or dial PBX systems and that such systems will not be connected with the exchange or toll network to form a through connection except as authorized in 5.5.A preceding. Such connections may be made by means of a key or footswitch. (T)

G. Composite Data Service

Private line service may be used in the provision of composite data service subject to the provisions set forth for such composite data service in Part 15, Section 1 of this tariff and 5.8.A and 2.C of this section. (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.6 Connection of Services Furnished by the Company to the Same Customer**

A private line furnished by the Company may be connected to another private line furnished by the Company or to another service provided by the Company as specified in A. through I. and 5.7 following.

- A. A private line may be connected to another private line if the forms of electrical communication for which they are being used are the same. Such connections will be made through connecting arrangements or channel switching arrangements provided by the Company or through switching equipment provided by the customer, except as otherwise provided in E. and H. following.
- B. A private line furnished for Civil Air Defense Warning Systems may be connected to other equipment only to the extent specified in Part 15, Section 2 of this tariff for Type 1002AA channels.
- C. Reserved (C)
(D)
- D. Channels created by the customer in accordance with the provisions of Part 15, Section 1 of this tariff may be connected at the customer's premises:
 - 1. To Series 1000, 2000 or 3000 channels furnished by the Company, and to channels created therefrom as authorized in Part 15, Section 1 of this tariff. The connection of such channels is subject to the regulations contained in 5.1 through 5.3 preceding.
 - 2. To a Type 10001 channel furnished by the Company. The connection of such channel is subject to the regulations contained in 5.1 through 5.3 preceding.
 - 3. To station apparatus associated with a service provided by the Company to the same customer, or to exchange and long distance message telecommunications service or a WATS access line through such station apparatus.

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.6 Connection of Services Furnished by the Company to the Same Customer (cont'd) (T)**

- E. Type 10001 channels may be connected to private line services either on the premises of the customer or through Centrex Control Switching Equipment which serves the premises of customer provided that:
1. At such premises the customer has a regular and continuing requirement for the origination or termination of communications over the customer-provided communications system which is extended by the Type 10001 channel.
 2. The normal mode of operation of the customer-provided communications system shall be to provide communications originating or terminating at the premises where the connection is made or at the customer's premises served by the Centrex Control Switching Equipment.
 3. Where the connection is made on the premises of the customer, the connection shall be made through switching equipment provided by the customer.
 4. The connection shall be to Series 1000, 2000 or 3000 channels or to channels created therefrom in accordance with the provisions of Part 15, Section 1 of this tariff, or to Type 10001 channels furnished by the Company. (T)
- F. Type 1006 channels may be connected at the customer's premises to exchange and long distance message telecommunications service through switching equipment provided by the customer. The connection shall be through a data set or a data access arrangement and shall be such that the function of network control signaling is performed by equipment furnished, installed and maintained by the Company. (T)
- G. A private line for voice communication utilizing a Type 2001 or other type of channel when used alternately for voice transmission and when in the voice mode, may be connected at a PBX or other switching or connecting arrangements to exchange and long distance message telecommunications service or a WATS access line to form a through connection over the private and exchange lines where facility conditions permit. Not more than one such type of connection will be established simultaneously and transmission is not represented as adapted to more than one such connection of the combined facilities at one time.

When a two point private line or a multi-point private line arranged for service solely between two points utilizing the above type channels is used alternately for transmission of data, through connections over the private and exchange lines may also be established as described above subject to the provisions of 5.2 and 5.3 preceding, and the rates and regulations specified in this tariff.

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.6 Connection of Services Furnished by the Company to the Same Customer (cont'd) (T)**

H. A private line utilizing a Type 10001 channel may be connected to exchange and long distance message telecommunications service or a WATS access line either on the premises of the customer or through Centrex Control Switching Equipment which serves the premises of the customer provided:

1. At such premises the customer-provided communications system which is extended by the Type 10001 channel, or the exchange and long distance message telecommunications service or WATS access line is utilized for the origination or termination of communications.

2. Where the connection is made on the premises of the customer, such connection shall be through switching equipment provided by the customer and shall be such that the function of network control signaling is performed by a network control signaling unit furnished, installed and maintained by the Company. (T)

I. High Capacity Transport Service may be connected to the extent specified in Part 20, Section 15 of this tariff.

5.7 Connection of Services Furnished by the Company to Different Customers (T)

Series 1000, 2000 or 3000 channels furnished by the Company for data transmission furnished to one customer may be connected to channels created by another customer from a channel in accordance with Part 15, Section 1 of this tariff, provided the customer whose channel is to be so connected is a joint user of the individual channel from which the channels have been created by the other customer. (T)

5.8 Connection of Services Furnished by the Company with Service of Other Common Carriers (OCC) (T)

A. A communication system provided by an OCC, as listed in Paragraph 2 preceding, to a customer, authorized user or joint user of private line services, furnished by the Company may be connected at the premises of the customer, authorized user or joint user to the channels of a private line service furnished by the Company where the customer, authorized user or joint user has a regular and continuing requirement for the origination or termination of communications over the communications system of the OCC. (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.8 Connection of Services Furnished by the Company with Service of Other Common Carriers (OCC) (cont'd) (T)**

A. (cont'd)

Where private line service, furnished by the Company, is used in the provision of a composite data service as described in Paragraph 2 preceding, and connection of such service is made to a communications system provided by an OCC through customer- provided data switching equipment, the above provision setting forth a regular and continuing requirement for the origination or termination of communications over such system is not applicable. In addition, the provisions of A.1 and A.5 following do not apply. (T)

Where the connection of an OCC-provided communications system is by means of a channel derivation device as described in A.5.b. following, the above provision setting forth a regular and continuing requirement for the origination or termination of communications over such system is not applicable. In addition, the provision of A.1 following does not apply.

1. The normal mode of operation of the OCC-provided communications system shall be to provide communications originating or terminating at the premises at which the connection is made.
2. Connections shall be made only if the forms of electrical communication are the same and consistent with those for which the Company-provided channel is offered. Connections are not represented as being suitable for satisfactory transmission. (T)
3. The private line service furnished by the Company shall utilize the following types of channels: (T)

2001,
3001, 3002
10001
4. Where the connection of an OCC-provided communications system is by means of an acoustic or inductive connection, such connection shall be made externally to voice transmitting and receiving equipment.
5. Where the connection of an OCC-provided communications system is by means of a direct electrical connection, such connection shall be made:
 - a. through switching equipment provided either by the customer, authorized user, joint user, or such OCC; or
 - b. through a channel derivation device provided either by the customer, authorized user, joint user, or the OCC.

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.8 Connection of Services Furnished by the Company with Service of Other Common Carriers (OCC) (cont'd) (T)**

A. (cont'd)

6. When the connection is by means of switching equipment provided by the customer, authorized user or joint user, such switching equipment and the facilities provided by the OCC shall be treated as a customer- provided communications system and the regulations applicable to the connection of such communications systems, set forth in 5.2 and 3 preceding apply.

When the connection is by means of a channel derivation device provided by the customer, authorized user or joint user, such channel derivation device and the facilities provided by the OCC shall be treated as a customer-provided communications system and the regulations applicable to the connection of such communications systems as set forth in 5.2 and 3 preceding apply with the exception of 5.3 D.1 a(1) and (2) and c.

7. Where the customer of such OCC is an authorized user of a private line service furnished by the Company and connection is made at the authorized user's premises, all communications over the interconnected facilities shall be between the authorized user and the Company's customer and be related directly to the business of the Company's customer. (T)
8. OCC-provided systems may be connected at the customer's, authorized user's or joint user's premises to station apparatus provided by the Company to the same customer. (T)

- B. All arrangements concerning services of an OCC shall be made by the customer with that carrier. The furnishing of private line services by the Company is not part of a joint undertaking with the OCC. (T)

C. OCC's:

The OCC's referred to herein and their Tariffs are listed in Paragraph 2 preceding.

- D. Conditions for Connection of OCC-Provided Communications Systems at Company Premises (T)
1. Communications systems provided by an OCC listed in Paragraph 2 preceding, to a customer may be directly connected at the premises of the Company with private line service furnished by the Company to that same customer, through Centrex control switching equipment, i.e., switching equipment located on Company premises and used to provide Centrex service in accordance with the provisions of Part 5 of the Company's Tariff. (T)

5. CONNECTIONS FOR PRIVATE LINE SERVICES (cont'd)**5.8 Connection of Services Furnished by the Company with Service of Other Common Carriers (OCC) (cont'd)** (T)

D. (cont'd)

2. Such OCC-provided communications system (a) may not exceed voice grade; and (b) must utilize central office connecting facilities furnished to the OCC by the Company between the OCC terminal location and the point of connection on Company premises, under the provisions of Tariff FCC No. 37, Facilities for Other Common Carriers. (T)

5.9 Connections of Customer-Provided Test Equipment (T)

Customer-provided test equipment is test equipment located at the premises of the customer and used by the customer for the detection and/or isolation of a communications service fault.

The Company will offer connections of customer-provided test facilities for an indefinite period of time, unless sooner canceled or changed, subject to the provisions of A. and B. following. (T)

A. Totally Protective Connections

1. Customer-provided test equipment may be connected to those private line services specified in 5.2 preceding at the premises of the customer through registered or grandfathered terminal equipment, protective circuitry, or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations which, either singularly or in combination, assures that all of the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations (total protection) are met at the private line service interface.
2. Customer-provided test equipment may be connected to those private line services specified in 5.3.A.3 preceding at the premises of the customer either (1) directly at the private line service interface, or (2) through other equipment, provided that the minimum protection criteria specified in 5.3.E preceding is continually met at the private line service interface.

B. Interim Program for Connections of Customer-Provided Test Equipment

1. Customer-Provided test equipment may also be connected at the premises of the customer to those private line services specified in 5.2 preceding, subject to the regulations as covered in Paragraph 3 preceding.