

CONNECTIONS**A. Application Of Guidebook**

1. Terminal equipment and communications systems may be connected with facilities provided by the Company in accordance with the regulations covered in this Section and subject to the general regulations for Company services specified in Part 2, Section 2.
2. Complete or partial temporary suspension of service provisions as detailed in Part 2, Section 4 do not apply to equipment provided in this Section.

B. Connection Of Terminal Equipment And Communications Systems

1. Connections with Telecommunications Services

a. General Provisions

1. General

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 paragraph B. and the *Location of Service* paragraph found in Part 2, Section 2. Telecommunications services as used herein includes Exchange Telecommunications Service, Long Distance Telecommunications Service (LDTS) and Wide Area Telecommunications Service (WATS).

2. Responsibility of the Customer

- (a) The customer shall be responsible for the installation, operation and maintenance of any customer-provided terminal equipment or communications system. No combinations of customer-provided terminal equipment or communications systems shall require change in or alteration of the equipment or services of the Company, except as specifically permitted under the provisions of B.1.f. and B.2.f. following, cause electrical hazards to Company personnel or the public, 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 or the user's calling or called party. Upon notice from the Company that the customer-provided 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.
- (b) When telecommunications services are directly connected through a service terminating arrangement or connecting arrangement at a customer's premises to a customer-provided communications system, chargeable time begins when a call from the telecommunications service terminates in or passes through the first switching or key telephone type system or terminal equipment on that communications system. It is the customer's responsibility to furnish appropriate answer supervision to the point of connection with the telecommunication service so that chargeable time may begin.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - a. General Provisions (cont'd)
 3. Responsibility of the Company
 - (a) Telecommunications services are not represented as adapted to 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 design, maintenance and operation of service components in a manner proper for such services. Subject to this responsibility the Company shall not be responsible for (I) the through transmission of signals generated by the customer-provided terminal equipment or communications systems or for the quality of, or defects in, such transmission, or (II) the reception of signals by customer-provided terminal equipment or communications systems, or (III) address signaling where such signaling is performed by customer-provided signaling equipment.
 - (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 services.
 - (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 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.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)

a. General Provisions (cont'd)

4. Recording of Two-Way Telephone Conversations

Telecommunications services are not represented as adapted to the recording of two-way telephone conversations. However, customer-provided voice recording equipment may be connected with telecommunications services, electrically or acoustically or inductively, in accordance with B.1.c. and B.1.d. following, subject to the following conditions:

- (a) All parties to the telephone conversation must give their prior consent to the recording of the conversation, and the prior consent must be obtained in writing or be part of, and obtained at the start of the recording; or the recording party must give notification in a clear, unambiguous manner to the other party of the intention to record the conversation at the beginning of, and as part of, the recorded portion of the call; or a distinctive recorder tone that is repeated at intervals of approximately fifteen seconds is required when recording equipment is in use and connected with telecommunications services; except that these conditions are not required:
 - (i) When used by a Federal Communications Commission licensed broadcast station customer for recording of two-way telephone conversations solely for broadcast over the air.
 - (ii) When used by the United States Secret Service of the Department of Treasury for recording of two-way telephone conversations which concern the safety and security of the person of the President of the United States, members of the President's immediate family, or the White House and its grounds.
 - (iii) When used by a broadcast network or by a cooperative programming effort composed exclusively of Federal Communications Commission broadcast licensees to record two-way telephone conversations solely for broadcast over the air by a licensed broadcast station.
 - (iv) When used for recording at United States Department of Defense Command Centers of emergency communications transmitted over the Department of Defense's private line system when connected to telecommunications services.
 - (v) When used in connection with the lines of public fire and police departments and hospitals serving the general public, provided that the proper authority certifies that such lines will be used exclusively for the receipt of emergency calls.
 - (vi) When used by the United States Nuclear Regulatory Commission of the Department of Energy with respect to the telephone systems located at its Operations Center for recording of two-way telephone conversations.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)

a. General Provisions (cont'd)

4. Recording of Two-Way Telephone Conversations (cont'd)

- (b) The customer-provided voice recording equipment shall be so arranged that at the will of the user it can be physically connected to and disconnected from the services of the Company or switched on and off.

5. Violation of Regulations

When any customer-provided terminal equipment or communications system 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 the guidebook.

6. Interpositioning of Terminal Equipment, Communications Systems and Premises Wiring

- (a) Customer-provided equipment and premises wiring may be interpositioned at the customer's premises either between Company-provided equipment and the telecommunications network or between items of Company-provided equipment. Company-provided equipment will be furnished in an interpositioned configuration for use with telecommunications services in accordance with the following:
 - (i) Customer-provided equipment to be connected in an interpositioned configuration must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.
 - (ii) The connections between equipment or premises wiring of the interpositioned configuration may be made using recognized standard interfaces such as those specified by the Electronics Industries Association (EIA) or authorized by Part 68 of the Federal Communications Commission's Rules and Regulations. Connections using non-standard interfaces may be made in accordance with B.1.f.1.(b).

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - a. General Provisions (cont'd)
 6. Interpositioning of Terminal Equipment, Communications Systems and Premises Wiring (cont'd)
 - (a) (cont'd)
 - (iii) The interpositioning must occur at the same premises at which the associated telecommunications service is terminated.
 - (iv) Premises wiring provided by the customer must comply with provisions of Part 68 of the Federal Communications Commission's Rules and Regulations.
 - (v) The Company reserves the right to determine whether or not any individual interpositioned configuration is technically feasible and compatible with Company-provided services and equipment when such a configuration is provided:
 - The Company makes no representation as to the quality of transmission over an interpositioned configuration. Maintenance responsibility for Company-provided equipment or premises wiring so connected is limited to assuring that the Company-provided equipment or premises wiring is functioning properly.
 - When interpositioned connections are made, it shall be the responsibility of the customer to ensure the continuing compatibility of the customer-provided equipment with Company-provided services and equipment.
 - b. Connections of Registered Equipment
 1. Registered Terminal Equipment, Registered Protective Circuitry and Registered Communications Systems

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, B.1.a. preceding and the following:

 - (a) 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.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - b. Connections of Registered Equipment (cont'd)
 1. Registered Terminal Equipment, Registered Protective Circuitry and Registered Communications Systems (cont'd)
 - (b) The customer shall 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. The customer shall 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. The customer shall also provide, when appropriate, the off-premises station port signaling capability of a P.B.X. system as described in Part 15, Section 2.
 - (c) The customer shall not connect registered equipment to a Company line if:
 - 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
 - The ringer type is not a ringer type designated by the Company as suitable for that particular line.
 - (d) Unless a specific waiver has been granted by the Federal Communications Commission, 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.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - b. Connections of Registered Equipment (cont'd)
 2. Premises Wiring Associated with Registered Communications Systems
 - (a) Premises Wiring is wiring which connects separately-housed equipment entities or system components to one another, or wiring which connects an equipment entity or system component with the telephone network interface, located at the customer's premises and not within an equipment housing.
 - (i) Fully-Protected and Premises Wiring is premises wiring which is:
 - No greater than 25 feet in length (measured linearly between the points where it leaves equipment or connector housings) and registered as a component of and supplied to the user with the registered terminal equipment or protective circuitry with which it is to be used.
 - A cord which complies with the sub-bullet point directly above and which is extended once by a registered extension cord. Extension cords may not be used as a substitute for wiring which for safety reasons should be affixed to or embedded in a building's structure.
 - Wiring located in an equipment room with restricted access, provided that this wiring remains exposed for inspection and is not concealed or embedded in the building's structure, and that it conforms to Part 68 of the Federal Communications Commission's Rules and Regulations.
 - Electrically behind registered equipment, system components or protective circuitry which assure that electrical contact between the wiring and commercial power wiring or earth ground will not result in hazardous voltages or excessive longitudinal imbalance at the telephone network interface.
 - (ii) Protected Premises Wiring Requiring Acceptance Testing for Imbalance is premises wiring which is electrically behind registered equipment, system components or circuitry which assures that electrical contact between the wiring and commercial power wiring will not result in hazardous voltages at the telephone network interface.
 - (iii) Unprotected Premises Wiring is all other premises wiring.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - b. Connections of Registered Equipment (cont'd)
 2. Premises Wiring Associated with Registered Communications Systems (cont'd)
 - (b) Customers who intend to connect premises wiring other than fully protected premises wiring to the telephone network shall give advance notice to the Company in accordance with the procedures specified in Part 68 of the Federal Communications Commission's Rules and Regulations or as otherwise authorized by the Federal Communications Commission.
 - (c) The Company may invoke extraordinary procedures specified in Part 68 of the Federal Communications Commission's Rules and Regulations where one or more of the following conditions are present:
 - Information provided in the supervisor's affidavit gives reason to believe that a violation of Part 68 of the Federal Communications Commission Rules and Regulations is likely.
 - A failure has occurred during acceptance testing for imbalance.
 - Harm has occurred, and there is reason to believe that this harm was a result of wiring operations performed under Part 68 of the Federal Communications Commission's Rules and Regulations.

In addition, the Company may monitor or participate in acceptance testing for imbalance or may inspect other than Fully-Protected Premises Wiring installations as set forth in Part 68 of the Federal Communications Commission's Rules and Regulations.
3. Connections Involving National Defense and Security
 - (a) In certain cases, Part 68 of the Federal Communications Commission's Rules and Regulations permit the connection of non-registered terminal equipment or communications systems to the telecommunications network, provided that:
 - (i) 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:
 - The connection is required in the interest of national defense and security,
 - The equipment to be connected either complies with the technical requirements of Part 68 or will not cause harm to the telecommunications network or Company employees, and
 - The work is supervised by an installation supervisor who meets the qualifications stated in Part 68.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems
 1. Direct Connections
 - (a) Grandfathered Terminal Equipment

Grandfathered terminal equipment may remain directly connected and be moved and reconnected to telecommunications services 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:

- 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;
- All such connections shall be made through Company-provided standard jacks or otherwise connected by the Company; and
- All such connections shall comply with the minimum protection criteria set forth in B.1.c.3. following.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
 1. Direct Connections (cont'd)
 - (b) Grandfathered Communications Systems

Grandfathered communications systems may remain directly connected and be moved and reconnected to the telecommunications network 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:

 - (i) 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;
 - (ii) All such connections are made through Company-provided standard jacks or are otherwise connected by the Company;
 - (iii) All such connections shall comply with the minimum protection criteria set forth in B.1.c.3. following;
 - (iv) Premises wiring shall conform to Part 68 of the Federal Communications Commission's Rules and Regulations;
 - (v) No changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer;
 - (vi) Additions to grandfathered communications systems may be made without registration of any additional equipment involved, provided that:
 - The equipment so added is being reconnected, i.e., was previously directly connected prior to January 1, 1980, in accordance with Company guidebook; and
 - Such additions comply with the provisions of (b)(i) through (v) preceding.
 - (vii) Additions of registered equipment to grandfathered communications systems are subject to B.1.b. preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
2. Connections through Connecting Arrangements Provided by the Company
 - (a) General
 - (i) Basis of Connection
 - Grandfathered connections of terminal equipment and grandfathered connections of communications systems made in accordance with the sub-bullet point directly below 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 at the rates and charges specified in B.5 following.
 - Subject to availability, the Company will provide grandfathered connecting arrangements in accordance with the provisions of B.5 following, to accommodate the connections of devices or system components connected at the customer's premises to terminal equipment or communications systems provided by the Company (that is, equipment-to-equipment connections) provided the host terminal equipment or communications system is grandfathered and is not a model or specific system type which has been registered. A grandfathered connecting arrangement provided under the provisions of B.5 following may remain connected under the provisions of B.5 following for the life of the arrangement's connection to its Company-provided host terminal equipment or communications systems. All reconnections of such connecting arrangements will be subject to the requirements specified above. Grandfathered connecting arrangements provided under the provisions of B.5 following are provided at the rates and charges specified in B.5 following.
 - Customer-provided communications systems which are not subject to Part 68 of the Federal Communications Commission's Rules and Regulations may be connected in accordance with B.1.g. following. Company-provided connecting arrangements are furnished for the connection of such systems at the rates and charges specified in B.5 following.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
 2. Connections through Connecting Arrangements Provided by the Company (cont'd)
 - (a) General (cont'd)
 - (i) Basis of Connection (cont'd)
 - Customer-provided terminal equipment may be connected in accordance with B.1.h. following to services of the Company specifically exempted from the Federal Communications Commission's Registration Program. Company-provided connecting arrangements are furnished for the connection of such equipment at the rates and charges specified in B.5 following.
 - Separate, identifiable and discrete protective circuitry (i.e., connecting arrangements) used for grandfathered connections of communications systems to telecommunications services 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.
 - (ii) Network Control Signaling

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 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 specified in Part 7, Section 5 of this guidebook apply.
 - Signaling functions may be performed by customer-provided Conforming Answering Devices specified in B.1.c.5. following.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
2. Connections through Connecting Arrangements Provided by the Company (cont'd)

- (b) Grandfathered Connections of Terminal Equipment

- (i) Data Terminal Equipment

Subject to the provisions of (a)(i) (the first and last sub-bullet points above), customer-provided data terminal equipment (including telephotograph 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:

- The customer shall furnish the equipment which performs the functions of:
 - ~ Conditioning the data signals generated by the customer-provided terminal equipment to signals suitable for transmission by means of Company services, and
 - ~ Conditioning signals transmitted by means of Company services to data signals suitable for reception by customer-provided equipment.
- The customer-provided data terminal equipment must comply with the minimum protection criteria specified in B.1.c.3. following.
- 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.

- (ii) Voice Terminal Equipment

Subject to the provisions of (a)(i) (the first and last sub-bullet points above), customer-provided voice terminal equipment may be connected at the customer's premises to the telecommunications network in accordance with the following:

- The connection shall be made through a network control signaling unit and a connecting arrangement furnished by the Company. In accordance with B.1.c.4. and B.1.c.5. following, a connecting arrangement is not required for the connection of Attested Equipment or Conforming Answering Devices.
- 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.
- The customer-provided voice terminal equipment must comply with the minimum protection criteria specified in B.1.c.3. following.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

1. Connections with Telecommunications Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
2. Connections through Connecting Arrangements Provided by the Company (cont'd)
 - (c) Grandfathered Connections of Communications Systems

Subject to the provisions of (a)(i) (the first sub-bullet point) above, customer-provided communications systems may be connected at the customer's premises to telecommunications services in accordance with the following:

- (i) The connection shall be through a network control signaling unit and connecting arrangement furnished by the Company.
- (ii) The provisions relating to minimum protection criteria set forth in B.1.c.3. following shall apply to the connection of customer-provided communications systems.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
 3. Minimum Protection Criteria for Electrical Connections
 - (a) 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 .
 - (b) 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:
 - (i) 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.
 - (ii) The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16db below one milliwatt.
 - (iii) The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24db below one milliwatt.
 - (iv) The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36db below one milliwatt.
 - (v) 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 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.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
 4. Attested Equipment Connected Prior to July 1, 1980
 - (a) Until July 1, 1980, customer-provided headsets and non-powered conferencing equipment which meet the standards and procedures set forth by the Company in Technical References for Attested Equipment may be connected at the customer's premises to telecommunications services in accordance with (i) through (v) following. Such equipment may remain connected and be moved and reconnected in accordance therewith for the life of the equipment unless subsequently modified.
 - (i) The connection shall be made through an interface termination (e.g., headset jack) provided by the Company.
 - (ii) The Identification Number issued by the Company to the manufacturer or supplier must appear on each unit of Attested Equipment utilized.
 - (iii) 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.
 - (iv) Attested equipment may not:
 - be connected to a source of electrical power which is external to the telecommunications service;
 - 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 signal ended terminal devices with the maximum gain limited so that the output power meets the minimum protection criteria set forth in B.1.c.3. 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.
 - (v) Attested Equipment must comply with the minimum protection criteria set forth in B.1.c.3. preceding.
 - (b) 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.1.b. preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
 5. Conforming Answering Devices Connected Prior to July 1, 1979
 - (a) 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 were connected at the customer's premises to the telecommunications services prior to July 1, 1979, in accordance with (i) through (v) following, may remain connected and be moved and reconnected in accordance therewith for the life of the equipment, unless subsequently modified.
 - (i) Customers shall notify the Company of their intention to connect Conforming Answering Devices. Such notification shall include the line on which the Conforming Answering Device is to be used as well as its Conformance Number.
 - (ii) The Conforming Answering Device shall only be connected by means of a jack or jack arrangement provided by the Company.
 - (iii) 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.
 - (iv) Conforming Answering Devices may not:
 - be used to transmit or receive data signals;
 - be used with party line service or with public or semi-public coin telephone service; and
 - be used to originate calls.
 - (v) The Conforming Answering Device shall comply with the minimum protection criteria set forth in B.1.c.3. preceding.
 - (b) In the event that an 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.1.b. preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)

d. Acoustic or Inductive Connections

1. General

- (a) Customer-provided voice or data terminal equipment (including telephotograph equipment) and customer-provided communications systems may be acoustically or inductively connected at the customer's premises to telecommunications services provided the acoustic or inductive connection is made externally to the network control signaling unit when such unit is provided by the Company.
 - (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.
2. Minimum Protection Criteria
- (a) To prevent excessive noise and crosstalk in the network, it is necessary that the power of the signal which is applied by the customer-provided 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 Company 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.
 - (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:
 - (i) 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.
 - (ii) The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16db below one milliwatt.
 - (iii) The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24db below one milliwatt.
 - (iv) The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36db below one milliwatt.
 - (v) The power in the band above 40,000 Hertz shall not exceed 50db below one milliwatt.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

1. Connections with Telecommunications Services (cont'd)

d. Acoustic or Inductive Connections (cont'd)

2. Minimum Protection Criteria (cont'd)

(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

Customer-provided accessories may be used with telecommunications services provided that such accessories comply with the provisions of B.1.a.2. and B.1.c.2.(a)(ii) preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - f. Equipment-to-Equipment Connections
 1. Except for connections described elsewhere in this guidebook, equipment-to-equipment connections, as defined in Part 2, Section 1, will only be permitted with Company-provided host terminal equipment and communications systems when:
 - (a) The supplier of the added equipment insures compliance of the combined host and added equipment, including wiring, with Part 68 of the Federal Communications Commission's Rules and Regulations and this Section of this guidebook.
 - (b) Connection of the added equipment to the host is made through a Company-provided interface which:
 - Provides all points of connection between the added equipment and wiring internal to host equipment housings.
 - Permits reasonable trouble isolation, as determined by the Company.
 - Is otherwise acceptable to the Company for the specific connection to be accomplished.
 - (c) Such permission does not necessitate disclosure, by the Company, of information which is proprietary in nature.
 - (d) The customer subscribing to the host notifies the Company of the added equipment and the host terminal equipment or communications system to which such added equipment is to be connected, in advance of such connection, and agrees to notify the Company when such added equipment is permanently disconnected.
 2. The Company reserves the right to not allow, or to require disconnection of, an equipment-to-equipment connection to any Company-provided host terminal equipment or communications system for reasons including, but not limited to:
 - (a) Incompatibility of a specific equipment-to-equipment connection with the design and/or functioning of a specific host or impairment in the performance of a specific host following such connection.
 - (b) Inability to accommodate an equipment-to-equipment connection without manufacturing or other modifications to the host which, in the opinion of the Company, are unwarranted.
 3. Rates and charges for equipment-to-equipment connections to Company-provided host terminal equipment and communications systems will be based on the costs attributable to the specific connection and/or disconnection involved.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - g. Connections to Customer-Provided Communications Systems Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations

1. General

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:
 - a connecting arrangement furnished by the Company, or
 - registered or grandfathered terminal equipment, protective circuitry, or communications system 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.
- (b) In lieu of the above requirements for total hardware protection, an optional, alternative method is available, as described in B.1.g.2. following, for the control of signal power only. The connection is:
 - through switching equipment, or
 - to a customer-provided communications system not subject to Part 68 of the Federal Communication 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.
- (c) Minimum protection criteria set forth in B.1.c.3. preceding are complied with when the connection is made through equipment or systems that are not registered.
- (d) Where WATS is the telecommunications service being connected to a customer-provided communications system, such connection shall be made only if the customer has a requirement to communicate over the WATS line to or from premises of that customer in Illinois. Customer-provided communications systems which are connected directly to the connecting arrangement must terminate in Illinois, in terminal equipment or in switching or key telephone type systems.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - g. Connections to 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) 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:
 - (i) 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.
 - (ii) 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 training course provided by the manufacturer of the equipment used to control voice frequency signal power; or
 - 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
 - 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
 - in lieu of the preceding training requirements, the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with the bullet points above.

Upon request the customer is required to provide the proper documentation to demonstrate compliance with the requirements in 2.(a)(ii) preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - g. Connections to Customer-Provided Communications Systems Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations (cont'd)
 3. At least 10 days advance notice must be given to the Company in the form of a notarized 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, business telephone number and signature of the customer or authorized representative who has responsibility for the operation and maintenance of the communications system.
 - (b) The lines(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.
 4. Extraordinary Procedures
 - (a) The Company may invoke extraordinary procedures to protect the telecommunications network where one or more of the following conditions are present:
 - (i) 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 B.1.g.2. preceding is likely.
 - (ii) Harm has occurred and there is reason to believe this harm was a result of operations performed under the Institutional Procedures set forth in B.1.g.2. preceding.
 - (b) The extraordinary procedures which can be invoked by the Company, include:
 - (i) 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.
 - (ii) Disconnecting service.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)

h. Connections of Customer-Provided Terminal Equipment to Service Specifically Exempted from the Federal Communications Commission's Registration Program

Customer-provided terminal equipment may be connected at the customer's premises to party line and semipublic coin services of the Company in accordance with the following unless specifically prohibited elsewhere in this guidebook:

1. The connection shall be through a network control signaling unit and connecting arrangement furnished by the Company.
2. The Customer-provided terminal equipment must comply with the minimum protection criteria set forth in paragraph B.1.c.3. preceding.

i. Connections of Certain Facilities of Power, Pipe Line and Railroad Companies^{/1/}

1. General

- (a) Except as otherwise provided in 2. following, telephone facilities of an electric power company or 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 c. and g. preceding, be connected with telecommunications services, for the following purposes:
 - (i) In cases of emergency involving safety of life or property;
 - (ii) 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;
 - (iii) In cases where the customer facilities serve locations where it is impracticable because of hazard or inaccessibility for the Company to furnish its facilities; and
 - (iv) During an interim period in cases where the customer has arranged for replacement of said customer facilities with facilities of the Company.
- (b) Telephone circuits of such companies will be connected to a local or toll central office line to form a through connection only through manual switching equipment or an attendant's position of dial P.B.X. equipment furnished to the customer by the Company. Such equipment or position may be located at either or both ends of the customer's circuit.

^{/1/} Regulations specified herein for right-of-way connections remain in effect until December 31, 1983, after which time these regulations apply to existing connections only. Moved or reconnected right-of-way connections must be made in accordance with the provisions of g. preceding. New installations are made as described in 2. preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - i. Connections of Certain Facilities of Power, Pipe Line and Railroad Companies^{/1/} (cont'd)
 1. General (cont'd)
 - (c) Connection of a telephone circuit of such companies as specified in (a)(ii), (iii) or (iv) preceding may be established at either end of such circuit, but shall not be established at both ends simultaneously.
 - (d) Customer facilities referred to in (a)(iii) and (iv) preceding do not include mobile radio-telephone facilities.
 - (e) Facilities of the Company, when connected with facilities of the customer, will not be used for communications of other 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:
 - (i) 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
 - (ii) Own or operate an electric power or pipe line or railroad system jointly with the customer; or
 - (iii) 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 exchange or long distance telecommunications service of other companies specified in (i), (ii) or (iii) preceding, including calls originated by employees of such companies, only under the circumstances set forth in (a)(i) and (ii) preceding.
 2. Customer-provided terminal equipment and communications systems connected to the telecommunications network in accordance with 1. 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 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 B.1.b. preceding.

^{/1/} Regulations specified herein for right-of-way connections remain in effect until December 31, 1983, after which time these regulations apply to existing connections only. Moved or reconnected right-of-way connections must be made in accordance with the provisions of g. preceding. New installations are made as described in 2. preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - j. Connections of Certain Facilities of the U.S. Army, Navy and Air Force
 1. General
 - (a) Except as otherwise provided in 2. following, 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 c. and g. preceding, be connected to telecommunications services 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.
 - (b) Except as otherwise provided in 2. following, 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 c. and g. preceding, be connected by means of connecting equipment furnished by the Company, to a P.B.X. switchboard or other telephone 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 telecommunications services 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.
 2. Customer-provided terminal equipment and communications systems connected to the telecommunications network in accordance with 1. 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 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 B.1.b preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - k. Connections of Certain Facilities on Turnpikes and Highways
 1. Except as otherwise provided in 2. following, telephone facilities of a state or local governmental agency, provided primarily to communicate with fixed points or mobile units on or along a turnpike or highway operated, patrolled, or maintained by said agency may, in lieu of the provisions of c. and g. preceding, be connected by means of switching or connecting equipment furnished by the Company to a P.B.X. switchboard or other telephone switching or terminal equipment of the Company for communications with stations and telecommunications channel services associated with said switching or terminal equipment. Such telephone facilities will be connected to telecommunications services only in cases of emergency involving safety of life and property.
 2. Effective January 1, 1980, 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, connected to telecommunications services in accordance with 1. preceding, must conform with Part 68 of the Federal Communications Commission's Rules and Regulations.
 - l. Connections of Certain Facilities of Airline Companies, FAA and U.S. Coast Guard
 1. Except as otherwise provided in 2. following, radiotelephone facilities provided by an Air Common Carrier, its authorized communications agency or the Federal Aviation Agency to communicate with aircraft in flight or radiotelephone facilities of the U. S. Coast Guard provided primarily to serve Coast Guard Stations as an aide in saving and protecting life and property may, in lieu of the provisions of c. and g. preceding, be connected by means of special connecting equipment furnished by the Company, to Company facilities located on the premises of the customer for exchange telecommunications service in case of emergency involving safety of life or property.
 2. Customer-provided terminal equipment and communications systems connected to the telecommunications network in accordance with 1. 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 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 B.1.b. preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)

m. Connections of Customer-Provided Test Equipment^{/1/}

1. 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, assures 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.

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

Customer-provided test equipment may also be connected at the premises of the customer either directly at the telecommunications network interface or 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:

- (a) 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 communications service fault.
- (b) 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.
- (c) 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.
- (d) Customer-provided test equipment must be operated in accordance with the Institutional Procedures for Signal Power Control as specified in 3. following.
- (e) 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.
- (f) 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 or degradation of service to persons other than the user of the subject test equipment or the user's calling or called party.

^{/1/} The Interim Program for the Connection of Customer-Provided Test Equipment, unless sooner canceled or changed, will remain in effect until a permanent program is adopted by the Federal Communications Commission as a result of Part 68 Rulemaking in CC Docket No. 81-216, 85 F.C.C. 2d 868 (1981).

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - m. Connections of Customer-Provided Test Equipment^{/1/} (cont'd)
 3. Institutional Procedures for Signal Power Control
 - (a) In accordance with 2.(d) preceding, the customer must comply with the following Institutional Procedures:
 - (i) 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.
 - (ii) 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:
 - A training course provided by the manufacturer of the test equipment, or
 - 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
 - An independent training course (e.g., trade school or technical institution) recognized by the manufacturer of the test equipment, or
 - In lieu of the preceding training requirements the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with the sub-bullet points directly above.
 - Upon request, the customer is required to provide proper documentation to demonstrate compliance with the requirements in this paragraph (ii).
 - (iii) Notice must be given to the Company in the form of a notarized affidavit before the initial connection of the customer-provided test equipment at each premises. A copy of the affidavit must also be maintained at the customer's premises. The affidavit must contain the following information:

/1/ The Interim Program for the Connection of Customer-Provided Test Equipment, unless sooner canceled or changed, will remain in effect until a permanent program is adopted by the Federal Communications Commission as a result of Part 68 Rulemaking in CC Docket No. 81-216, 85 F.C.C. 2d 868 (1981).

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

1. Connections with Telecommunications Services (cont'd)
 - m. Connections of Customer-Provided Test Equipment^{/1/} (cont'd)
 3. Institutional Procedures for Signal Power Control (cont'd)
 - (a) (cont'd)
 - (iii) (cont'd)
 - The full name, business address, business telephone number and signature of the customer or authorized representative who has responsibility for the operation of the test equipment.
 - The line(s) to which the test equipment will be either connected to or arranged for connection to.
 - 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.
 - 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.
 - (b) Extraordinary Procedures
 - (i) The Company may invoke extraordinary procedures to protect the telecommunications network where one or more of the following conditions are present:
 - 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.
 - 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.
 - (ii) The extraordinary procedures, which can be invoked by the Company, include:
 - 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.
 - Disconnecting service.

/1/ The Interim Program for the Connection of Customer-Provided Test Equipment, unless sooner canceled or changed, will remain in effect until a permanent program is adopted by the Federal Communications Commission as a result of Part 68 Rulemaking in CC Docket No. 81-216, 85 F.C.C. 2d 868 (1981).

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services

a. General Provisions

1. General

- (a) Terminal equipment and communications systems may be connected at the premises of the customer or the customer's authorized user to telecommunications channel services furnished by the Company in accordance with this paragraph B.2. and the *Location of Service* paragraph found in Part 2, Section 2. Telecommunications services as used herein includes Exchange Telecommunications Services, Long Distance Telecommunications Service (LDTS), Wide Area Telecommunications Service (WATS), DATAPHONE Digital Service (DDS or Subrate), and High Capacity Digital Service (1.544 Mbps).
- (b) Where customer-provided terminal equipment or communications systems involve connection to Series 6000 or Series 7000 channels, the provisions specified in Part 15, Section 2 also apply.
- (c) Where customer-provided terminal equipment is connected to telecommunications channel service through a DATAPHONE data set, the regulations specified for minimum protection criteria, or for connection of telecommunications channel service with telecommunication services, do not apply.
- (d) The regulations pertaining to the connection of customer-provided communications systems with Type 10001 channels (entrance facilities) are specified in d.4.(b) following.
- (e) Provision of telecommunications channel service to the premises of an Other Carrier is permitted only (1) where such telecommunications channel service is used by the Other Carrier as a customer pursuant to Part 2, Section 2 or (2) where the telecommunications channel service is used for composite data service and is connected through customer-provided data switching equipment to other channels or services furnished to that composite data service vendor for composite data service by an Other Carrier or by the Company.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - a. General Provisions (cont'd)
 2. Responsibility of the Customer
 - (a) The customer shall be responsible for the installation, operation and maintenance of any customer-provided terminal equipment or communications system. No combination of customer-provided terminal equipment or communications system shall require change in or alteration of the services of the Company, cause electrical hazards to Company personnel or the public, 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 or the user's calling or called party. Upon notice from the Company that a customer-provided 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.
 - (b) The customer shall be responsible for ordering and specifying the type of channel, the conditioning, and the DATAPHONE data sets (where requested), for operation with data processing equipment provided by the customer.
 - (c) Where the customer elects to provide his own data set(s) on a given Company-provided telecommunications channel, it shall be the responsibility of the customer to ensure the continuing compatibility of such data set(s) with the facilities furnished by the Company.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

a. General Provisions (cont'd)

3. Responsibility of the Company

- (a) Telecommunications channel services are not represented as adapted to the use of customer-provided terminal equipment or communications systems. Where such terminal equipment or communications systems are used with telecommunications channel services, the responsibility of the Company shall be limited to the furnishing of service components suitable for telecommunications channel 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 systems or for the quality of, or defects in, such transmission, 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.
- (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 line, needed to permit customer-provided terminal equipment to operate in a manner compatible with the telecommunications network.
- (c) 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.

4. Recording of Two-Way Telephone Conversations

Telecommunications channel services are not represented as adapted to the recording of two-way telephone conversations. When customer-provided voice recording equipment is used with such service which is connected to telecommunications services, the provisions relating to Recording of Two-Way Telephone Conversations as set forth in B.1.a.4. preceding are applicable to such telecommunications channel service.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

a. General Provisions (cont'd)

5. Violation of Regulations

When any customer-provided terminal equipment or communications system is used with telecommunications channel services or DATAPHONE Digital Service 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 take such steps as are necessary to 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 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 there is compliance with the provisions of this guidebook.

6. Interpositioning of Customer-Provided Terminal Equipment, Communications Systems and Premises Wiring

Customer-provided terminal equipment, communications systems and premises wiring may be connected in an interpositioned configuration to those telecommunications channel services specified in B.2.b. following and subject to the regulations specified in B.1.a.6. preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

b. Connections of Registered Equipment

Terminal equipment, protective circuitry, and communications systems that are registered may be connected to those telecommunications channel services specified in 1., 2., 3., 4. or 6. following subject to the provisions of B.1.b. and B.2.a. preceding.

1. The connection may be made only at the customer's premises to telecommunications channel service (including the appropriate Series 5000 equivalent services) that present a two-wire or four-wire loop signaling interface for such connections under the following conditions:
 - Registered terminal equipment, registered protective circuitry and registered key telephone systems may be connected to the station end of Type 2001A, 2001C, 2001D or 2001E channel services.
 - Registered P.B.X. systems and registered protective circuitry may be connected as a trunk termination to the station end of a Type 2001C channel service.
2. The P.B.X. end of a Type 2001C channel service may be connected as a P.B.X. termination to registered P.B.X. systems or registered protective circuitry.
3. The connection of registered terminal equipment and registered P.B.X. systems may be made only at the customer's premises to a Type 2001B channel service (including its appropriate Series 5000 equivalent service) that presents an interface for either two-wire or four-wire transmission, with separate E&M signaling leads conventionally known as Type I (battery/ground) or Type II (contact closure type). Such E&M signaling leads are those terminal equipment or P.B.X. leads (other than voice or data communications leads) used for the purpose of transferring supervisory or address signals across the interface.
4. The connection of registered terminal equipment and registered P.B.X. systems may be made only at the customer's premises to a Series 1000 or Series 3000 channel service furnished to provide indications of message registration of outgoing calls to such customer-provided equipment or systems.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - b. Connections of Registered Equipment (cont'd)
 5. Connections Involving National Defense and Security
 - (a) In certain cases, Part 68 of the Federal Communications Commission's Rules and Regulations permit the connection of non-registered terminal equipment or communications systems to telecommunications channel services specified in B.2.b.1. preceding, if:
 - (i) 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:
 - The connection is required in the interest of national defense and security,
 - The equipment to be connected either complies with the technical requirements of Part 68 or will not cause harm to the telecommunications network or Company employees, and
 - The work is supervised by an installation supervisor who meets the qualifications stated in Part 68.
 6. The connection of registered terminal equipment may be made at the customer's or authorized user's premises to DATAPHONE Digital Service (DDS or Subrate) or to High Capacity Digital Service (1.544 Mbps) subject to Part 68 of the Federal Communications Commission's Rules and Regulations for subrate and 1.544 Mbps digital services.
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems
 1. Direct Connections
 - (a) Grandfathered terminal equipment and grandfathered communications systems, directly connected to the telecommunications channel services specified in B.2.b.1. preceding, are subject to the regulations (with regard to those connections) specified in B.1.c.1., 4. and 5. preceding and the minimum protection criteria set forth in B.2.d.6. following.
 - (b) Grandfathered terminal equipment and grandfathered communications systems, directly connected to the telecommunications channel services specified in B.2.b.2., .3 and 4. 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:
 - (i) All such connections shall comply with the minimum protection criteria set forth in B.2.d.6. following.
 - (ii) No changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
 1. Direct Connections (cont'd)
 - (c) Until May 1, 1983, new installations of terminal equipment or communications systems which have been Grandfathered may be connected to the telecommunications channel services specified in B.2.b.2., 3. and 4. preceding, subject to the following:
 - (i) 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.
 - (ii) All such connections are made through Company-provided standard jacks or are otherwise connected by the Company.
 - (iii) All such connections shall comply with the minimum protection criteria set forth in B.2.d.6. following.
 - (iv) Premises wiring associated with communications systems shall conform to Part 68 of the Federal Communications Commission's Rules and Regulations.
 - (v) No charges shall be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
 1. Direct Connections (cont'd)
 - (d) Additions to the grandfathered terminal equipment or grandfathered communications systems specified in (b) and (c) preceding may be made, subject to (c)(i) through (v) preceding and to the following:
 - (i) Until May 1, 1983, where the equipment being added is of a type which has been grandfathered, and
 - (ii) After May 1, 1983, where the equipment being added is grandfathered.
 - (iii) Additions of registered equipment are subject to B.2.b. preceding.
 - (e) Equipment or systems connected pursuant to (b) through (d) preceding may remain connected and be moved and reconnected, in accordance with (c)(i) through (v) 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.
 - (f) Customer-provided terminal equipment and customer-provided communications systems connected via customer-provided grandfathered protective circuitry are subject to the provisions of (a) through (e) preceding.
 - (g) Grandfathered terminal equipment, including premises wiring (if any), directly connected to the telecommunications channel services specified in B.2.b.6. preceding on January 1, 1985, 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 Commissions Rules and Regulations.
 - (h) Until June 30, 1986, new installations of terminal equipment, including premises wiring (if any), which have been Grandfathered may be connected to the telecommunications channel services specified in B.2.b.6. preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - c. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)
 2. Connections through Connecting Arrangements Provided by the Company
 - (a) Grandfathered connections of terminal equipment and grandfathered connections of communications systems to the telecommunications channel services specified in B.2.b.1. preceding are subject to the regulations specified in B.1.c.2. preceding and the minimum protection criteria set forth in B.2.d.6. following.
 - (b) Grandfathered connections of terminal equipment and grandfathered connections of communications systems to the telecommunications channel services specified in B.2.b.2., 3. and 4. preceding are subject to the following:
 - (i) Until May 1, 1983, the Company will provide connecting arrangements for installations of new customer-provided 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 to the telecommunications channel services specified in B.2.b.2., 3. and 4. preceding through connecting arrangements prior to May 1, 1983.
 - (ii) Grandfathered connections of terminal equipment and grandfathered connections of communications systems made in accordance with (i) 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 at the rates and charges specified in B.5 following.
 - (iii) Network control signaling shall be performed by the connecting equipment furnished, installed and maintained by the Company, except that customer-provided tone-type address signaling is permissible through the Company-provided connecting arrangement.
 - (iv) The connections specified in (i) through (iii) preceding must comply with the minimum protection criteria specified in B.2.d.6. following.
 - (c) Grandfathered connections of terminal equipment, including protective apparatus (if any), to the telecommunications channel services specified in B.2.b.6. preceding are subject to the same limitations specified in B.2.c.1.(g) and (h) preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

d. Connections of Customer-Provided Terminal Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program

1. General

- (a) Connecting arrangements are not required and minimum protection criteria are not applicable where customer-provided terminal equipment or communications systems are connected with Type 1005, 1006, Series 6000 or Series 7000 channels due to the nature of the service provided and/or the type of channels and equipment used.
- (b) Except as otherwise provided in B.2.b. and B.2.c. preceding, customer-provided terminal equipment and communications systems may be electrically connected to telecommunications channel services in accordance with this paragraph B.2.d.
 - (i) When the customer-provided terminal equipment or communications system is connected with telecommunications channel service furnished by the Company and such service is not arranged for connection to telecommunications services, such connections shall be made to an interface provided by the Company.
 - (ii) When the customer-provided terminal equipment or communications system is connected with telecommunications channel service furnished by the Company and such telecommunications channel service is arranged for connection to telecommunications services:
 - Except as otherwise specified in B.2.d.4.(a)(iv) following, such connections shall be made through a connecting arrangements as provided in this paragraph B.2.d., and
 - 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.
 - (iii) Customer-provided terminal equipment or communications systems connected pursuant to (i) and (ii) preceding, must comply with the minimum protection criteria specified in 6. following.

2. Data Terminal Equipment

Customer-provided data terminal equipment (including telephotograph equipment) may be connected at the customer's premises to telecommunications channel service through a network control signaling unit and a data access arrangement provided by the Company in accordance with the following when such telecommunications channel service is arranged as provided in 1.(b)(ii) preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - d. Connections of Customer-Provided Terminal Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program (cont'd)
 2. Data Terminal Equipment (cont'd)
 - (a) The customer shall furnish the equipment which performs the functions of:
 - (i) Conditioning the data signals generated by the customer-provided terminal equipment to signals suitable for transmission by means of Company services, and
 - (ii) Conditioning signals transmitted by means of Company services to data signals suitable for reception by customer-provided equipment.
 - (b) 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 communications, the data access arrangement may be used to connect the customer-provided terminal equipment for voice communication.
 - (c) When the connection of customer-provided data terminal equipment requires the use of data sets, the data sets may be provided by the customer and/or the Company at the option of the customer; except that the Company shall furnish all data sets, as specified in B.4. following, located in Company central offices. DATAPHONE data sets as set forth in B.4. following may be furnished by the Company to meet customer requirements. However, Digital Data Sets are the only DATAPHONE data sets provided by the Company that may be furnished for use with Type 3010 channels.
 3. Voice Terminal Equipment
 - (a) Customer-provided voice terminal equipment may be connected at the customer's premises to telecommunications channel service in accordance with the following when such telecommunications channel service is arranged as provided in 1.(b)(ii) preceding.
 - (i) The connection shall be made through a network control signaling unit and a connecting arrangement furnished by the Company.
 - (ii) 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.
 - (b) Attested Equipment and Conforming Answering Devices may be used with telecommunications channel service subject to the provisions of B.1.c.4. and 5. preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

d. Connections of Customer-Provided Terminal Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program

4. Communications System

- (a) Customer-provided communications systems used for telecommunication between two or more designated points all of which are within a Market Service Area within the State of Illinois may be connected (other than communications systems connected pursuant to B.2.b. and c. preceding) to telecommunications channel service in accordance with the provisions specified herein. These communication systems (including channels derived from such systems), not exceeding voice grade, may be connected at the customer's or authorized user's premises provided that:
- (i) The connection shall be to channels of voice grade or less furnished by the Company or to channels created therefrom in accordance with the provisions of B.2.e. following.
 - (ii) When the telecommunications channel service is arranged as provided in 1.(b)(ii) preceding, the connection is made through:
 - a connecting arrangement provided by the Company, or
 - 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 telecommunications channel interface.

Minimum protection criteria as set forth in B.2.d.6. following must be complied with when the connection is made through equipment or systems that are not registered.

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

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

d. Connections of Customer-Provided Terminal Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program (cont'd)

4. Communications System (cont'd)

(a) (cont'd)

(iii) When customer-provided communications systems not subject to Part 68 of the Federal Communications Commission's Rules and Regulations are connected to telecommunications channel services that are arranged as provided in B.2.d.2.(a) preceding and the connection is 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 channel service interface, no further action is required. However, when a customer elects to connect a communications system to telecommunications channel service 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:

- 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 private line service interface continuously complies with Part 68 of the Federal Communications Commission's Rules and Regulations.
- The operator(s)/maintainer(s) responsible for the establishment, maintenance and adjustment of the voice frequency signal power present at the telecommunications channel service interface must be trained to perform these functions by successfully completing one of the following:
 - ~ a training course provided by the manufacturer of the equipment used to control voice frequency signal power; or
 - ~ 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
 - ~ 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
 - ~ in lieu of the preceding training requirements, the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with the sub-bullet points directly above.

Upon request the customer is required to provide the proper documentation to demonstrate compliance with the requirements in these sub-bullet points.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

d. Connections of Customer-Provided Terminal Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program (cont'd)

4. Communications System (cont'd)

(a) (cont'd)

(iii) (cont'd)

- At least 10 days advance notice must be given to the Company in the form of a notarized 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:
 - ~ The full name, business address, business telephone number and signature of the customer or authorized representative who has responsibility for the operation and maintenance of the communications system.
 - ~ The line(s) which the communications system will be either connected to or arranged for connection to.
 - ~ A statement that all operations associated with the establishment, maintenance and adjustment of the signal power present at the private line service interface will comply with Part 68 of the Federal Communications Commission's Rules and Regulations.
 - ~ A statement describing how each operator(s)/maintainer(s) of the communications system will meet and continue to meet the training requirements for persons installing, adjusting or maintaining the communications system.

(iv) Extraordinary Procedures

- The Company may invoke extraordinary procedures to protect telecommunications channel service where one or more of the following conditions are present:
 - ~ 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 (v) preceding is likely.
 - ~ Harm has occurred and there is reason to believe this harm was a result of operations performed under the Institutional Procedures set forth in (v) preceding.
- The extraordinary procedures, which can be invoked by the Company, include:
 - ~ 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 channel service interface. This protective apparatus may be provided by either the Company or the customer.
 - ~ Disconnecting service.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - d. Connections of Customer-Provided Terminal Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program (cont'd)
 4. Communications System (cont'd)
 - (b) Customer-provided communications systems may be connected through connecting arrangements furnished by the Company with Type 10001 channels (entrance facilities) for the purpose of extending the customer-provided communications system to a premises of the customer or authorized user. The Type 10001 channel or channels created therefrom in accordance with the provisions of E. following, may be connected at such customer's or authorized user's premises to other customer-provided communications systems in accordance with (a)(iii) preceding.^{/1/}
 - (c) Where a telecommunications channel service furnished by the Company is used in the provision of a composite data service for others and connection of that telecommunications channel service is made to a communications system provided by a customer or authorized user and the connection is made through customer-provided data switching equipment, the regulations specified in (a)(i) and (ii) preceding are not applicable.
 - (d) Connections to High Capacity and Subrate Services will be considered on a case-by-case basis.
 5. Accessories

Accessories provided by a customer may be used with telecommunications channel service provided that such accessories comply with the provisions of B.2.a.2. and B.2.d.1.(b)(ii) preceding.

/1/ This connection will not be provided to new customers on and after July 6, 1986. Customers having this connection prior to that date may retain it in its present configuration. Additions and rearrangements are not permitted.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - d. Connections of Customer-Provided Terminal Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program (cont'd)
 6. Minimum Protection Criteria for Electrical Connections
 - (a) Since telecommunications channel services utilize Company channels and equipment 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 telecommunications channel service be limited. Because each telecommunications channel service is individually engineered, a single valued limit for all applications cannot be specified. Therefore, the power of the signal in the band above 300 Hertz which may be applied by the customer-provided equipment to the interface will be specified by the Company for each application to be consistent with the signal power allowed on the telecommunications network.
 - (b) 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:
 - (i) 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.
 - (ii) The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16db below one milliwatt.
 - (iii) The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24db below one milliwatt.
 - (iv) The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36db below one milliwatt.
 - (v) 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 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.
 - (d) Where there is connection to telecommunications services through subrate or 1.544 Mbps digital services, it is necessary that the digital signal applied by the customer-provided equipment to the Company interface located on the customer's premises at no time have encoded analog energy solely in the 2450 to 2750 Hertz band. If encoded analog energy is in the 2450 to 2750 Hertz band, it must not exceed the encoded analog energy present at the same time in the 800 to 2450 Hertz band.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

d. Connections of Customer-Provided Terminal Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program (cont'd)

7. Acoustic or Inductive Connections

(a) General

- (i) Customer-provided voice or data terminal equipment (including telephotograph equipment) may be acoustically or inductively connected at the customer's premises to a telecommunications channel service provided the acoustic or inductive connection is made externally to the network control signaling unit when such unit is provided by the Company.
- (ii) Customer-provided communications systems may be acoustically or inductively connected with telecommunications channel service as specified in (a) following, provided the acoustic or inductive connection is made externally to the network control signaling unit when such unit is provided by the Company.
 - Customer-provided communications systems may be connected at premises of the customer or authorized user provided that:
 - ~ The connection shall be to channels of voice grade or less or to Type 10001 channels (entrance facilities) furnished by the Company.^{/1/}
- (iii) 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.

(b) Minimum Protection Criteria

- (i) Since telecommunications channel services utilize Company channels and equipment 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 telecommunications channel service be limited. Because each telecommunications channel 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 interface will be specified by the Company for each application to be consistent with the signal power allowed on the telecommunications network.

/1/ Connection to 10001 channels will not be provided to new customers on and after July 6, 1986. Customers having the connection prior to that date may retain it in its present configuration. Additions and rearrangements are not permitted.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

d. Connections of Customer-Provided Terminal Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program (cont'd)

7. Acoustic or Inductive Connections (cont'd)

(b) Minimum Protection Criteria (cont'd)

- (ii) To protect other services, it is necessary that the signal which is applied by the customer-provided equipment to the interface located on the customer's premises meet the following limits at the output of the network control signaling unit:
 - 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 (i) preceding.
 - The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16db below one milliwatt.
 - The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24db below one milliwatt.
 - The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36db below one milliwatt.
 - The power in the band above 40,000 Hertz shall not exceed 50db below one milliwatt.
- (iii) Where there is connection to telecommunications service, 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-provided voice transmitting and receiving equipment located on the customer's premises be limited so that the signal at the output of the Company-provided voice transmitting and receiving equipment 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-provided 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.
- (iv) Where there is connection to telecommunications service through subrate or 1.544 Mbps digital services the protection criteria set forth in B.2.d.6.(d) preceding applies.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

e. Channel Derivation Devices

Additional channels may be created from a channel provided for telecommunications channel service as provided in 1. and 2. following subject to a., b. and c. preceding:

1. Customers, by use of their own equipment, and in accordance with the normal transmission characteristics of the channel furnished, may create additional channels from channels furnished by the Company if the channels are furnished by the Company for, and if the channels thus created are used for (a) remote operation of mobile systems or (b) remote metering, supervisory control or signaling purposes.
2. Customers, by use of their own equipment, and in accordance with the normal transmission characteristics of the grade of channel ordered may create additional channels for any type of communication, except as specified in 1. above, by subdividing a channel of voice grade or less.

The Company makes no representation as to the suitability of the channels provided by it for such subdivision into additional channels by the customer.

f. Equipment-to-Equipment Connections

1. Except for connections described elsewhere in this guidebook, equipment-to-equipment connections will only be permitted with Company-provided host terminal equipment and communications systems when:
 - (a) The supplier of the added equipment insures compliance of the combined host and added equipment, including wiring, with Part 68 of the Federal Communications Commission's Rules and Regulations and this Section of this guidebook.
 - (b) Connection of the added equipment to the host is made through a Company-provided interface which:
 - (i) Provides all points of connection between the added equipment and wiring internal to host equipment housings.
 - (ii) Permits reasonable trouble isolation, as determined by the Company.
 - (iii) Is otherwise acceptable to the Company for the specific connection to be accomplished.
 - (c) Such permission does not necessitate disclosure, by the Company, of information which is proprietary in nature.
 - (d) The customer subscribing to the host notifies the Company of the added equipment and the host terminal equipment or communications system to which such added equipment is to be connected, in advance of such connection, and agrees to notify the Company when such added equipment is permanently disconnected.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - f. Equipment-to-Equipment Connections (cont'd)
 2. The Company reserves the right to not allow, or to require disconnection of, an equipment-to-equipment connection to any Company-provided host terminal equipment or communications system for reasons including, but not limited to:
 - (a) Incompatibility of a specific equipment-to-equipment connection with the design and/or functioning of a specific host or impairment in the performance of a specific host following such connection.
 - (b) Inability to accommodate an equipment-to-equipment connection without manufacturing or other modifications to the host which, in the opinion of the Company, are unwarranted.
 3. Rates and charges for equipment-to-equipment connections to Company-provided host terminal equipment and communications systems will be based on the costs attributable to the specific connection and/or disconnection involved.
 - g. Connections of Certain Facilities of Power, Pipe Line and Railroad Companies
 1. Facilities of an electric power company or 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 c. and d.4.(a) and (b) preceding, be connected with services furnished by the Company to the same customer, subject to the following:
 - (a) Such connections will be made by means of connecting equipment furnished by the Company.
 - (b) Such customer telephone facilities will be connected to telecommunications channel service furnished by the Company for voice transmission utilizing a Type 2001, 2001B^{/1/} or 2001C channel, or Type 5201, 5201B^{/1/} or 5201C channel, when furnished to the same customer, for communication with stations associated with such services; provided, however, that facilities of the customer will not be connected to a local or toll central office to form a through connection except as follows:
 - (i) In cases of emergency involving safety of life or property;
 - (ii) 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 right-of-way, structures, or equipment;
 - (iii) In cases where the customer facilities serve locations where it is impracticable because of hazard or inaccessibility for the Company to furnish its facilities; and
 - (iv) During an interim period in cases where the customer has arranged for replacement of said customer facilities with facilities of the Company.

/1/ Not applicable for termination in Switching System Services.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

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

1. (cont'd)

- (c) Telephone circuits of such companies will be connected to a local or toll central office line to form a through connection only through manual switching equipment or an attendant's position of dial P.B.X. equipment furnished to the customer by the Company. Such equipment or position may be located at either or both ends of the customer's circuit.^{/1/}
- (d) Connection of a telephone circuit of such companies as specified in (b)(ii), (iii), or (iv) 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 telecommunications channel service furnished by the Company for such purposes to the same customer.
- (f) Company-provided telecommunications channel services, when connected with facilities of the customer, will not be used for communications of other than the customer, except that such services may be used for the communications of, and be connected with services furnished by the Company to, other companies which:
 - (i) Are operated with the customer as parts of an integrated electric power, oil, oil products or natural gas system or railroad system under direct or common ownership or control; or
 - (ii) Own or operate an electric power or pipe line or railroad system jointly with the customer; or
 - (iii) Own or operate electric power or pipe line or railroad facilities interconnected with those of the customer.Company-provided telecommunications channel services when so connected may be connected to a local or toll central office line to form a through connection for communications of other companies specified in (i), (ii) or (iii) preceding, including calls originated by employees of such companies only under the circumstances set forth in (b)(i) and (ii) preceding.
- (g) Customer-provided terminal equipment and communications systems connected to the telecommunications channel services specified in B.2.b.1. preceding and in accordance with (a) through (f) 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 telecommunications channel services must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.

/1/ This provision remains in effect until December 31, 1983, after which time the regulations apply to existing connections only which may not be moved nor reconnected.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - g. Connections of Certain Facilities of Power, Pipe Line and Railroad Companies (cont'd)
 1. (cont'd)
 - (h) 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, connected to the telecommunications channel services specified in B.2.b.2., 3. and 4. preceding and in accordance with (a) through (f) preceding, must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.
 - (i) Telecommunications channel service of voice grade or less will be furnished by the Company to connect a location not within the customer's right-of-way to a location which is in the customer's right-of-way provided both locations are in or near the same exchange or local service area and the connection is made through terminal equipment furnished by the customer.
 - (j) Equipment provided on the customer facilities for the purpose of deriving telephone, teletypewriter, data transmission, remote metering, supervisory control or miscellaneous signaling channels may be used, if suitable for such use, to derive such channels over channels of voice grade or less furnished by the Company as provided in (i) preceding.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - h. Connections of Certain Facilities of the U. S. Army, Navy and Air Force
 1. Facilities of the U. S. Department of Army, Navy or Air Force will be connected with facilities furnished by the Company in lieu of the provisions of c. and d.4.(a) and (b) preceding, subject to the regulations and conditions stated herewith in H., where the Secretary of the Department or the Secretary of the Department's 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 connecting equipment furnished by the Company.
 2. Such customer telephone facilities will be connected to telecommunications channel services furnished by the Company for voice transmission and utilizing a Type 2001, 2001B^{/1/} or 2001C channel, or Type 5201, 5201B^{/1/} or 5201C channel for communication with stations associated with such services; provided, however, that such Department facilities will not be connected to a line having access to the telecommunications services to form a through connection except in cases of emergency involving safety of life or property, unless the aforesaid facilities are provided in locations where it is impracticable for the Company to furnish its facilities.
 3. Such customer teletypewriter, data transmission, remote metering, supervisory control or miscellaneous signaling facilities will be connected to channel services furnished for such purposes.
 4. Customer-provided terminal equipment and communications systems connected to the telecommunications channel services specified in B.2.b.1. preceding and in accordance with 1. through 3. 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 telecommunications channel services must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.
 5. 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, connected to the telecommunications channel services specified in B.2.b.2., 3. and 4. preceding and in accordance with 1. through 3. preceding must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.
 6. Telecommunications channel services of voice grade or less will be furnished by the Company between a terminal of Department facilities within or near an 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.
 7. Equipment provided on the Department facilities for the purpose of deriving telephone, teletypewriter, data transmission, remote metering, supervisory control or miscellaneous signaling channels may be used, if suitable for such use, to derive such channels over channels of voice grade or less furnished by the Company as provided in 6. preceding.

/1/ Not applicable for Termination in Switching System Service.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - i. Connections of Certain Facilities on Turnpikes and Highways
 1. Facilities of a state or local governmental agency, provided primarily to communicate with fixed points or mobile units on or along a turnpike or highway operated, patrolled or maintained by said agency, will be connected with facilities furnished by the Company to the same agency or to a state or local governmental agency operating, patrolling or maintaining a connecting turnpike or highway, subject to the regulations and conditions stated herewith in paragraph i. in lieu of the provisions of c. and d.4.(a) and (b) preceding.
 2. Such customer telephone facilities will be connected to telecommunications channel service furnished by the Company for voice transmission utilizing a Type 2001, 2001B^{/1/} or 2001C channel, or Type 5201, 5201B^{/1/} or 5201C channel for communication with stations associated with such services; provided, however, that customer facilities will not be connected to a line having access to telecommunications services to form a through connection except in cases of emergency involving safety of life or property.
 3. Such customer teletypewriter, data transmission, remote metering, supervisory control or miscellaneous signaling facilities will be connected to channel services furnished for such purposes.
 4. Customer-provided terminal equipment and communications systems connected to the telecommunications channel services specified in B.2.b.1. preceding and in accordance with 1. through 3. 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 telecommunications channel services must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.
 5. 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, connected to the telecommunications channel services specified in B.2.b.2., 3. and 4. preceding and in accordance with 1. through 3. preceding, must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.
 6. Telecommunications channel service of voice grade or less will be furnished by the Company between a terminal of customer facilities within or near an 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.
 7. Equipment provided on the customer facilities for the purpose of deriving telephone, teletypewriter, data transmission, remote metering, supervisory control or miscellaneous signaling channels may be used, if suitable for such use, to derive such channels over channels of voice grade or less furnished by the Company as provided in 6. preceding.

/1/ Not applicable for Termination in Switching System Service.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

j. Connections of Customer-Provided Test Equipment^{/1/}

1. Totally Protective Connections

- (a) Customer-provided test equipment may be connected to telecommunications channel services specified in B.2.b. 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 telecommunications channel interface.
- (b) Customer-provided test equipment may be connected to telecommunications channel services as specified in B.2.d.1.(b) preceding at the premises of the customer either directly at the telecommunications channel interface, or through other equipment, provided that the minimum protection criteria specified in B.2.d.6. preceding is continually met at the telecommunications channel interface.

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

Customer-provided test equipment may also be connected at the premises of the customer to those telecommunications channel services specified in B.2.b. preceding either directly at the telecommunications channel interface, or 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:

- (a) 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.
- (b) The customer-provided test equipment is of a type that was lawfully directly connected to telecommunications channel service 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.
- (c) Direct connection 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.
- (d) Customer-provided test equipment must be operated in accordance with the Institutional Procedures for Signal Power Control as specified in 3. following.
- (e) The customer notifies the Company of each telecommunications channel 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.

/1/ The Interim Program for the Connection of Customer-Provided Test Equipment, unless sooner canceled or changed, will remain in effect until a permanent program is adopted by the Federal Communications Commission as a result of Part 68 Rulemaking in CC Docket No. 81-216, 85 F.C.C. 2d 868 (1981).

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)
 - j. Connections of Customer-Provided Test Equipment^{/1/} (cont'd)
 2. Interim Program for Connections of Customer-Provided Test Equipment (cont'd)
 - (f) 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, or degradation of service to persons other than the user of the subject test equipment or the user's calling or called party.
 3. Institutional Procedures for Signal Power Control
 - (a) In accordance with 2.(d) preceding, the customer must comply with the following Institutional Procedures:
 - (i) The customer must install, operate and maintain the test equipment so that its signal power at the telecommunications channel interface complies with Subpart D of Part 68 of the Federal Communications Commission's Rules and Regulations.
 - (ii) The operator(s)/maintainer(s) responsible for the test equipment signal power present at the telecommunications channel interface must be trained to perform these functions by successfully completing one of the following:
 - A training course provided by the manufacturer of the test equipment, or
 - 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
 - An independent training course (e.g., trade school or technical institution) recognized by the manufacturer of the test equipment, or
 - In lieu of the preceding training requirements, the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with the bullet points above.
- Upon request, the customer is required to provide proper documentation to demonstrate compliance with the requirements in this paragraph (ii).

/1/ The Interim Program for the Connection of Customer-Provided Test Equipment, unless sooner canceled or changed, will remain in effect until a permanent program is adopted by the Federal Communications Commission as a result of Part 68 Rulemaking in CC Docket No. 81-216, 85 F.C.C. 2d 868 (1981).

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

2. Connections with Telecommunications Channel Services (cont'd)

j. Connections of Customer-Provided Test Equipment^{/1/} (cont'd)

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

(a) (cont'd)

(iii) Notice must be given to the Company in the form of a notarized affidavit before the initial connection of the customer-provided test equipment at each premises. A copy of the affidavit must also be maintained at the customer's premises. The affidavit must contain the following information:

- The full name, business address, business telephone number and signature of the customer or authorized representative who has responsibility for the operation of the test equipment.
- The line(s) to which the test equipment will be either connected to or arranged for connection to.
- A statement that all operations associated with the establishment, maintenance and adjustment of the test equipment signal power present at the telecommunications channel interface will comply with Subpart D of Part 68 of the Federal Communications Commission's Rules and Regulations.
- 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.

(b) Extraordinary Procedures

(i) The Company may invoke extraordinary procedures to protect the telecommunications service where one or more of the following conditions are present:

- Information provided in the affidavit gives reason to believe that a violation of Part 68 of the Federal Communication's Rules and Regulations or the Institutional Procedures set forth in (a) preceding is likely.
- 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.

(ii) The extraordinary procedures, which can be invoked by the Company, include:

- 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 channel interface.
- Disconnecting service.

/1/ The Interim Program for the Connection of Customer-Provided Test Equipment, unless sooner canceled or changed, will remain in effect until a permanent program is adopted by the Federal Communications Commission as a result of Part 68 Rulemaking in CC Docket No. 81-216, 85 F.C.C. 2d 868 (1981).

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

3. Regulations Applicable to DATAPHONE Digital Service

a. General

Terminal equipment, channel derivation equipment or communications systems may be connected to DATAPHONE Digital Service provided by the Company when such connection is made in accordance with the provisions of B.3.b. following.

The connection of a DATAPHONE Digital Service furnished by the Company to another DATAPHONE Digital Service or to other services furnished by the Company may be made in accordance with the provisions of B.3.c. following.

All connections as provided for in B.3.b. and c. following shall be made through equipment furnished by the customer or authorized user. The responsibility of the Company shall be limited to the furnishing of service to that point on the customer's or authorized user's premises where provision is made for the connection of such equipment. The customer or authorized user is responsible for testing its equipment or facilities to insure that when they are connected with DATAPHONE Digital Service such equipment or facilities are operating properly.

The responsibilities of the customer and the responsibilities of the Company are further set forth in B.1.a.2. and 3. preceding.

b. Connection of Terminal Equipment, Channel Derivation Equipment and Communications Systems

1. Terminal equipment, channel derivation equipment and communications systems may be directly connected to DATAPHONE Digital Service at the premises of the customer or authorized user subject to Part 68 of the Federal Communications Commission's Rules and Regulations, and the following: no service will be provided to the premises of an Other Common Carrier where the sole purpose of the service, including any bit streams derived therefrom, is to effect direct connection for through transmission with communications channels of an Other Carrier.
2. The customer or authorized user, by use of its own channel derivation equipment, may create digital bit streams from a DATAPHONE Digital Service. This equipment may be connected at the customer's or authorized user's premises with (1) facilities provided for Long Distance Telecommunications Service and Wide Area Telecommunications Service (WATS) furnished under the provisions of the A. T. & T. Company's interstate tariffs and (2) facilities furnished for Telecommunications Channel Service, Telephone Exchange Service, Long Distance Telecommunications Service and Wide Area Telecommunications Service (WATS) furnished under the rates and regulations of this guidebook for the transmission of such bit streams over these facilities.
3. The customer shall be responsible for ordering and specifying the type of Data Service Unit (when provided by the Company) and the speed of D.A.L. for operation with equipment and systems provided by the customer or authorized user.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

3. Regulations Applicable to DATAPHONE Digital Service (cont'd)

c. Connection to Other Services Furnished by the Company to the Same Customer or Different Customer

A DATAPHONE Digital Service furnished by the Company to a customer may be connected by the customer or authorized user at the premises of the customer or authorized user, to another DATAPHONE Digital Service or to other services furnished by the Company subject to Part 68 of the Federal Communications Rules and Regulations and as specified below:

1. Telecommunications Channel Service of the following types furnished under the rates and regulations of this guidebook:

- Type 3002 channels
- Type 5302 channels
- Type 10001 channels

2. Exchange central office lines or WATS access lines

The function of network control signaling shall be performed by equipment furnished, installed and maintained by the Company.

d. Accessories

Accessories provided by the customer or authorized user may be used in conjunction with DATAPHONE Digital Service provided that such accessories comply with the provisions of B.1.a.2. and B.1.c.2.(a)(ii) preceding.

4. Data Terminal Equipment

5. Connecting Equipment Applicable to Telecommunications Service

Connecting equipment for connecting customer-provided terminal equipment and/or communications systems with Company facilities furnished for exchange telecommunications service are listed according to the customer-provided equipment with which the arrangements are generally associated.

Except as otherwise provided in B.1.g. through l. preceding or as specifically noted, installations of new connecting arrangements will not be made:

- After July 1, 1979, for connection of customer-provided terminal equipment
- After January 1, 1980, for connection of customer-provided communications systems
- After July 1, 1980, for equipment-to-equipment connections

Treatment with respect to grandfathered installations which include such connecting arrangements is covered in B.1.c.2. preceding.

See regulations above governing installation of items shown on this page.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

a. Data Access Arrangements

	<u>I.N.C.</u>	<u>Per Mo.</u>
1. Rates and Charges		
(a) Arrangement for manual operation for use with standard telephone set and key to connect and disconnect customer-provided terminal equipment /CDT/	\$9.69	\$1.94
(b) Arrangements for unattended sending and receiving with voltage type interface, each arrangement /CBS/ with contact type closure type interface, each arrangement /CBT/	11.63 ^{/1/}	5.33
power supply when not customer-provided /CBV/	11.63 ^{/1/} 4.85 ^{/2/}	4.22 1.11

See Special Regulations

2. Special Regulations

To provide automatic call origination to any telephone number in the telecommunications network:

- (a) the contact closure type arrangement must be associated with a customer-provided automatic calling unit
- (b) the voltage type arrangement may be associated with either a customer-provided device or Company-provided Data Auxiliary Set as shown in B.4. preceding.

See B.5 for regulations governing installation of items shown on this page.

/1/ Not applicable when installed at same time as the exchange or access line with which the data access arrangement is associated.

/2/ Not applicable when installed at same time as the data access arrangement with which the power supply is associated.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements

	<u>I.N.C.</u>	<u>Per Mo.</u>
1. Alarm Equipment		

(a) Rates and Charges

(i) Alarm Coupler

Permits automatic connection of customer-provided originate only alarm device, each /CAU/	\$29.08	\$3.63
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With signaling unit to permit control from a remote telephone station /SU4/	53.31	6.78
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See Special Regulation (i)

(ii) Connecting Arrangement

Permits automatic connection of customer-provided originate only or originate and answer alarm devices

Per line equipped /SU6AQ/	19.38	3.15
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With answer back supervisory tone transmission ability, per line equipped /STS/	19.38	4.85
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See Special Regulation (i)

(b) Special Regulations

The following connecting arrangements are available for use with customer-provided alarm devices:

- (i) The Alarm Coupler and Voice Connecting Arrangement are interface arrangements for use with customer-provided equipment that transmits dial or tone pulses for the purpose of dialing a preset telephone number, and then transmits a prerecorded voice message. The arrangements are furnished in connection with direct one-party, Centrex, dial P. B. X. terminal or similar lines.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

1. Alarm Equipment (cont'd)

(b) Special Regulations (cont'd)

- (ii) With the Automatic Dialing and Announcing Arrangement when the customer-provided device is activated, the facilities provided by the Company automatically seize an associated direct one-party exchange line, dial a predetermined telephone number and play a prerecorded message over the line after the dialing is completed. The called telephone number will be dialed repeatedly and the warning message repeated until the alarm detection device is disconnected or reset.
- (iii) With the Alarm Reporting Telephone Service, when the customer-provided device is activated, the facilities provided by the Company seize an associated direct one-party exchange line, dial a predetermined telephone number of a control telephone and transmit a prerecorded message to that telephone after the dialing is completed. The control telephone is equipped to turn off the reporting telephone after the message is received, test the operation of the reporting telephone and to prepare the recorded message.
- (iv) With the arrangements under *Rates and Charges*, (i) preceding, the customer shall furnish any conduit and facilities required on his premises between his alarm system and the emergency reporting station.

2. Automatic Dialers

Rates and Charges	<u>I.N.C.</u>	<u>Per Mo.</u>
Connecting arrangement to automatically connect a customer-provided dial pulse dialer, which requires no voice transmission path, to the telecommunications network, per line equipped /SU7QW/	\$19.38	\$3.15

3. Reserved

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

4. Call Volume and Timing Indicators

(a) Rates and Charges	<u>I.N.C.</u>	<u>Per Mo.</u>
(i) Arrangement to connect customer-provided line use equipment to Company-provided lines		
Each line equipped for line use /C1V/	\$24.23	\$2.04
Each line equipped for line use and called number identification ^{/1/} /RCX/ See Special Regulation (i)	24.23	1.45
(ii) Arrangement to connect customer-provided counting and timing device to Company-provided lines		
Each line arranged		
With tone signal /RTT/	29.08	4.36
With tone signal to local party only /RC1/	33.92	4.85
Relocation of connecting arrangement to another line on the same continuous property See Special Regulation (i)	14.54	--

/1/ The called number identification feature will not operate in conjunction with Touch-Tone Calling Service.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

4. Call Volume and Timing Indicators (cont'd)

(a) Rates and Charges (cont'd)	<u>I.N.C.</u>	<u>Per Mo.</u>
(iii) Arrangement to connect customer-provided counting and timing device to lines arranged for dial access associated with a Centrex system Each line arranged		
For contact closure only /RTS/	\$24.23	\$2.91
For contact closure with tone signal ^{/1/} /RC2/	48.46	8.24
Relocation of connecting arrangement to another line on the same continuous property See Special Regulation (ii)		
14.54	14.54	--
(iv) Automatic arrangement to permit the connection of customer-provided message register equipment to Company-provided exchange lines Each arranged /CEK/		
	9.69	2.42

(b) Special Regulations

- (i) Customer-provided line use equipment or counting and timing device may be connected to direct one-party lines, P.B.X trunk and station lines, Centrex Terminal lines (at the same location as the customer-provided line use equipment or counting and timing device), WATS lines and Telecommunications Channel Services terminating in telephone instruments, attendant positions or P.B.X switching equipment
- (ii) Arrangement (iii) under Rates and Charges, (a) preceding, is provided where facilities and operating conditions permit
- (iii) Arrangement (iv) under Rates and Charges, (a) preceding, provided indications of message registration for out-going calls placed over Company-provided lines

/1/ New or additional installations of this equipment will not be provided after January 14, 1976.
Customers having this equipment on that date may retain it at its present location at the rates shown.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

5. Code Calling Systems

(a) Rates and Charges	<u>I.N.C.</u>	<u>Per Mo.</u>
Code sending sets, including signal control relay sets are furnished only when the customer provides the signals.		
No. 3-A Dial Code Sending Set with 125 Code Capacity		
(i) Furnished with Type 1 Centrex Service		
With one talking path /HUW/	\$72.69	\$40.71
With two talking paths /HUX/	72.69	53.31
Slow interval operation of signals /HUY/	--	.82
Protective connection equipment /36701/ ^{/1/}	--	1.45 ^{/2/}
See Special Regulations		

(b) Special Regulations

Customer-provided code calling systems may be used in connection with Company facilities furnished for P. B. X. and Centrex systems equipped with rotary dial or TOUCH-TONE calling telephones.

/1/ New or additional installations of this equipment will not be provided after July 1, 1980.

/2/ Where required and furnished by the Company, the monthly rate applies to each termination on which protective connection equipment is furnished.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

6. Dictation Recording Equipment	<u>I.N.C.</u>	<u>Per Mo.</u>
(a) Rates and Charges		
(i) Furnished with Centrex Service		
Dial dictation terminal equipment, each /DCTCX/		
<u>Termination Charge - \$959.52^{/1/}</u>		
		--
		\$39.98

(b) Special Regulations

Customer-provided telephone dictation recording equipment may be used in connection with Company-provided dial P.B.X. service, Centrex service and key and button telephone system stations equipped with rotary dials or for TOUCH-TONE Calling for the recording of dictation subject to the following conditions:

- (i) Connection of customer-provided dictation recording equipment with Company-provided dial P.B.X. service, Centrex service and key and button telephone systems will be made only through a dial dictation terminal furnished by the Company for this purpose. The dial dictation terminal will include a connecting block to which only the customer-provided dictation recording equipment may be connected.
- (ii) The dictation recording equipment may be used only with telephones of the customer's dial P. B. X. , Centrex or key and button telephone systems or with telephones of associated dial P B.X. Centrex systems connected by dial tie lines, and in no case shall such equipment be connected to other telephones or to the telecommunications network.

^{/1/} Reduces 1/24 for each month in service at the same location.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

7. Electrocardiogram and Electroencephalogram Equipment

(a) Rates and Charges

Protective connection equipment (including connection equipment, monitoring receiver, key, and for portable installations, cord for connection to telephone facilities) with terminals for the direct connection of the telephotograph equipment, each
Connecting jack for portable protective connection equipment, each
See Special Regulation

As shown in 14. following

(b) Special Regulation

This means of interconnection of customer-provided electrocardiogram and electroencephalogram equipment is discontinued except that customers to this service on April 22, 1968, may retain the service.

8. Reserved

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

9. Paging or Information Retrieval Systems

(a) Rates and Charges

The following rates include the associated connecting equipment (Special Regulation b. following) and are applicable where the Company facilities on the customer's premises and the point of connection with the customer-provided public address or loudspeaker paging system are within the same building.

(i) Dial-In Access	<u>I.N.C.</u>	<u>Per Mo.</u>
Through switching equipment of Centrex Communications Systems		
Arranged to directly pass dial or TOUCH-TONE signals for selective paging, each paging line /ER8/ ^{/1/}		
Centrex Service	\$72.69	\$43.61
Not arranged to pass dial or TOUCH-TONE signals, each paging line ^{/1/}		
Centrex - all types /EW3/	33.92	31.50
Per paging line whether the paging line is arranged to pass or not pass dial or TOUCH-TONE signals ^{/2/}		
Centrex - all types when equipped with Voice Coupler /EPRVC/		24.00
Centrex - all types when not equipped with Voice Coupler /EPRNC/		13.00

/1/ Effective June 2, 1995, this service rate element will not longer be available to new customers. Those customers having this service rate element on this date will be allowed to maintain this service rate element at rates shown. New customers will be required to select one of the other available rate elements, which, in combination with a Type 2001 Series Channel and Central Office Make-Busy Arrangement where needed will provide customers the equivalent of the grandfathered Connecting Arrangement.

/2/ In addition to the rates shown above, all applicable rates and charges the same as those for Type 2001 Series Channel also apply for each paging line. Applicable monthly charges are those listed in Part 15, Section 2. Applicable Service Charges are listed in Part 3, Section 1. Customers may find that in addition to the elements listed above, a Central Office Make-Busy Arrangement may be required with each paging line to insure proper operation of their paging system. Central Office Make-Busy Arrangement is available under the provisions of Part 8, Section 8, paragraph 1.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

9. Paging or Information Retrieval Systems (cont'd)

(a) Rates and Charges (cont'd)	<u>I.N.C.</u>	<u>Per Mo.</u>
(ii) Arranged to pass dial or TOUCH-TONE signals for selective paging directly or with conversion		
Dial pulse or TOUCH-TONE output (no conversion), each arrangement Centrex Service /XCWCA/ <u>Termination Charge - \$639.67^{/1/}</u>	\$266.53	\$48.46
Dial pulse output at the interface, originated by TOUCH-TONE stations or by a combination of TOUCH-TONE and Rotary Dial equipped stations, each arrangement Centrex Service /XCWCB/ <u>Termination Charge - \$1,163.04^{/1/}</u>	702.67	87.23
Two-out-of-seven signaling at interface From a system containing all Rotary Dial or all TOUCH-TONE stations, each arrangement Centrex Service /XCWCD/ <u>Termination Charge - \$872.28^{/1/}</u>	339.22	63.00
From a mixed system of Rotary Dial and TOUCH-TONE stations, each arrangement Centrex Service /XCWCC/ <u>Termination Charge - \$1,104.89^{/1/}</u>	654.21	67.84
(iii) Direct Access		
(a)		
(b) Line from Centrex Type 1 console attendant's position		
Initial position arranged, each access line Centrex Type 1 console /57X/	33.92	9.69
Additional positions arranged for access to the same line Centrex Type 1 /9GL/	14.54	2.42

/1/ Termination charge reduces by 1/60 for each month in service.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

9. Paging or Information Retrieval Systems (cont'd)

(a) Rates and Charges (cont'd)	<u>I.N.C.</u>	<u>Per Mo.</u>
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(iv) Miscellaneous Arrangements

Arrangement to provide automatic bridging of two designated terminal numbers on Combination Administration and Dormitory, Centrex Type 1 and Airport Telephone services to be used in conjunction with customer-provided paging equipment. (Arrangement available from appropriately equipped central offices)

Each arrangement including the two terminal numbers associated with arrangement /AP7/	\$67.84	\$40.71
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(b) Special Regulations

Customer-provided public address, loudspeaker, radio paging or information retrieval systems, which include amplifiers, receiving speakers, and associated wiring used to transmit paging messages or announcements or for two-way communications, may be used in connection with Company facilities furnished for P.B.X., Switching System Services, HORIZON Communications Systems and Key and Button Telephone Services equipped with manual, rotary dial or Touch-Tone Calling telephones, subject to the following conditions:

- (i) Connection of customer-provided paging or information retrieval systems with facilities of the Company shall be made only through connecting arrangements furnished by the Company. The connecting arrangements will include a connecting block or equivalent to which the customer-provided system will be connected.
- (ii) Company facilities when so connected may be used only to transmit messages or signals to the customer-provided system. Such customer-provided system may not be used to originate messages or signals into Company facilities. After the connection has been established end-to-end transmission will be permitted on a two-way basis.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

10. Private Mobile Radiotelephone Systems

(a)

(b) Special Regulations

Customer-provided private mobile radio telephone systems must be arranged for full duplex operation when arranged to interconnect with stations of a Private Branch Exchange Switching System.

11. Recorded Speech or Music Transmitting Equipment

(a)

(b) Special Regulation

Customer-provided equipment, which transmits background music or other recorded material to facilities of the Company while in the hold mode, requires a dedicated jack to be associated with the customer-provided recording service.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

12. Recording and Reproducing Equipment and Automatic Answering and Recording Equipment

(a) Rates and Charges	<u>I.N.C.</u>	<u>Per Mo.</u>
(i) Recorder Connector Equipment With automatic recorder tone device /RCZ/, /RCP/	\$29.08 ^{/1/}	\$3.50
(ii) Recorder Control and Announcement Message Equipment /RDQ/	58.15	7.00
(iii) Recorder Coupler /RDL/	19.38	4.36
(iv) Voice Connecting Arrangements Automatic answering arrangement Permits automatic connection of customer-provided answering sets and/or recorders where two-way transmission is required Per line equipped /RDMZR/ With automatic volume limiting for incoming transmission per line equipped /RDY/ Per line equipped with two-wire interface/GTS/	19.38 19.38 19.38	3.15 4.94 3.54
(v) Connecting Arrangement Protective connection equipment (required with each jack) each /36703/	--	As shown in 14. following

/1/ I.N.C. does not apply for portable recorder connector equipment or where permanent recorder.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

12. Recording and Reproducing Equipment and Automatic Answering and Recording Equipment (cont'd)

(a) Rates and Charges (cont'd)	<u>I.N.C.</u>	<u>Per Mo.</u>
(vi) Miscellaneous Arrangements		

Student Telephone Access Service
Permits dial telephone access to the customer-provided recorder-reproducer equipment from the telecommunications network or Combination Administrative and Dormitory terminals

Common bridging and amplifier arrangement for a capacity of 30 access lines with five access lines equipped, including connection to customer provided recorder-reproducer equipment/5FC/	\$145.38	\$169.61
---	----------	----------

Additional access line, each /5FA/	24.23	33.92
------------------------------------	-------	-------

The minimum contract period for this arrangement is three years.

See Special Regulation (iii) following

(b) Special Regulations

- (i) Recorder connector, recorder control and announcement message, recorder coupler and voice connecting equipment may be used in connection with stations associated with exchange service.
- (ii) The use of customer-provided equipment with Company facilities is further subject to the following conditions:
 - For purposes of identification customers to telephone service who transmit recorded public announcements over facilities provided by the Company must include in the recorded message the name of the organization or individual responsible for the service and the address at which the service is provided.
 - Customers transmitting factual public announcements such as Time, Weather, Stock Market quotations, airline schedules and similar information are excluded from the preceding condition.
- (iii) Student Telephone Access Service is furnished with Combination Administrative and Dormitory Service. Not more than 10 such service arrangements will be furnished with any one Combination Administrative and Dormitory Service system.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

	<u>I.N.C.</u>	<u>Per Mo.</u>
13. Station Auxiliary Signals		

- (a)
- (b) Special Regulations
Regulations applicable to the furnishing of Company-provided station auxiliary signals are applicable to the use of customer-provided station auxiliary signals.

14. Telephotograph Equipment

- (a) Rates and Charges
Protective connection equipment (including connection equipment, monitoring receiver, key, and for portable installations, cord for connection to telephone facilities) with terminals for the direct connection of the telephotograph equipment, each /36703/^{/1/} \$4.85 \$1.45
- (b) Special Regulations
 - (i) Telephotograph equipment may be connected to lines of the Company for use by:
 - The press for transmission and reception of pictures and similar material for publication,
 - Law enforcement agencies for the transmission and reception of fingerprints, ballistic data, identification photographs and similar material for law enforcement,
 - The armed forces of the United States for the transmission and reception of information of military necessity essential to the national defense,
 - Civilian defense agencies for the transmission and reception of information essential for the discharge of the responsibilities in emergencies, and
 - The United States Weather Bureau for the transmission and reception of weather information.
 - (ii) Customer telephotograph equipment may be connected either by direct physical connection or by acoustic or inductive coupling. Direct physical connection may be made only by means of the protective connection equipment shown above and the connection of this telephotograph equipment may be made by the customer only to the terminals of the protective connection equipment.
 - (iii) The telephotograph equipment may be used in connection with any type of business service, except coin telephone service, furnished to the customer in (i) preceding or made available to them under a joint user arrangement. Portable protective equipment may be used also at P.B.X. stations in guest rooms of hotels, subject to the consent of the hotel concerned.

/1/ New or additional installations of this equipment will not be provided after July 1, 1980.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

15. Voice Communications Systems Connected to Company Long Distance Switchboard Only

16. Voice Communications Systems Connected to Company Long Distance Switchboard Only

Rates and Charges	<u>I.N.C.</u>	<u>Per Mo.</u>
Arrangement to permit the connection of customer-provided communications system to Company Long Distance Switchboard through Company-provided lines Connection of customer-provided switching equipment each, each Company line arrested for one-way outward service /CET/	\$9.69	\$3.97
Connection of customer-provided switching equipment and attendant positions, each line arranged for two-way service ^{/1/} /CED/	9.69	5.57

17. Voice Transmitting and/or Receiving Terminal Equipment and Communications Systems

(a) Terminal Equipment

- | | | |
|---|-------|------|
| (i) Arrangement to automatically connect a customer-provided telephone set, intercommunicating system line, key or multi-button telephone system line circuit, or a multi-button set to the telecommunications network
Per line arranged /STC/ | 19.38 | 4.75 |
| (ii) Arrangement to automatically connect customer-provided equipment (typically key or multi-button telephone systems or call extending equipment) with a telecommunications network line
Per line arranged ^{/1/} /C2ACP/ | 9.69 | 5.57 |

/1/ One-way outward only from switching equipment.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

17. Voice Transmitting and/or Receiving Terminal Equipment and Communications Systems (cont'd)

Rates and Charges	<u>I.N.C.</u>	<u>Per Mo.</u>
(a) Terminal Equipment (cont'd)		
(iii) Arrangement to automatically connect customer-provided equipment (typically call extending equipment) with a telecommunications network line terminated in a Company telephone set		
Per line arranged ^{/1/} /C2AKS/	\$9.69	\$5.57
<i>Company-provided 24 volt power source</i>		
Common equipment for mounting one or more connecting arrangements /STPTP/	159.92	10.18
Each line arranged at the common equipment location /STP/	22.29	2.42
<i>Company-provided 48 volt power source</i>		
Common equipment for mounting up to 14 connecting arrangements /C2FTP/	179.30	13.81
Each line arranged at the common equipment location /C2F/	22.29	2.42
<i>Customer-provided 24 volt power source</i>		
Common equipment for mounting one or more connecting arrangements /STPCP/	155.07	8.63
Each line arranged at the common equipment location /STP/	22.29	2.42
<i>Customer-provided 48 volt power source</i>		
Common equipment for mounting up to 14 connecting arrangements /C2FCP/	159.92	9.93
Each line arranged at the common equipment location /C2F/	22.29	2.42

/1/ These arrangements are not to be terminated on a P. B. X. trunk.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

17. Voice Transmitting and/or Receiving Terminal Equipment and Communications Systems (cont'd)

(a) Terminal Equipment (cont'd)	<u>I.N.C.</u>	<u>Per Mo.</u>
Arrangement to connect customer-provided traffic measuring equipment to detect on-hook, off-hook, dial pulse, Touch-Tone and ringing signals on a central office exchange line, P.B.X. station line, Centrex terminal line, WATS line or telecommuni-cations channel service terminating in Company-provided equipment at the same location as the customer-provided measuring equipment		
(i) Single units		
Per line arranged /HZL/	\$19.38	\$.63
(ii) Multiple units		
Each 36 or less lines arranged /HZM/	145.38	4.41

The charge for rearrangement of line termination is \$14.54 for the first line changed and \$1.94 for each additional line changed on the same order.

(b) Communications Systems

(i) Manual Arrangements		
To connect a customer-provided attendant position at a cord switchboard to a P.B.X. trunk		
Conditioned to accept customer-provided signals		
Per P.B.X. trunk arranged /CDA/	--	2.67
Not conditioned to accept customer-provided supervisory signals		
Per P.B.X. trunk arranged /CD1/	--	2.67

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

17. Voice Transmitting and/or Receiving Terminal Equipment and Communications Systems (cont'd)

(b) Communications Systems (cont'd)	<u>I.N.C.</u>	<u>Per Mo.</u>
(ii) Automatic Arrangements		
To connect an attendant position of a customer-provided communications system to a P.B.X. trunk - per P.B.X. trunk arranged		
One-way inward service /CD6/	\$9.69	\$3.49
One-way outward service /CD7/	9.69	3.97
Two-way service /CD9/	9.69	5.57
To connect customer-provided switching equipment to a P.B.X. trunk		
Each P.B.X. trunk arranged for one-way outward service /CD8/	9.69	3.97
To connect customer-provided switching equipment and attendant positions to a P.B.X. trunk to provide two-way service at the attendant positions and one-way outward service from the switching equipment		
Each P.B.X. trunk arranged /CDH/	9.69	5.57

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

17. Voice Transmitting and/or Receiving Terminal Equipment and Communications Systems (cont'd)

(b) Communications Systems (cont'd)	<u>I.N.C.</u>	<u>Per Mo.</u>
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(ii) Automatic Arrangements (cont'd)

To connect customer-provided communications system, arranged for dial signaling to a tie line equipped for two-way dial or automatic signaling which terminates at the distant end in a Company-provided P.B.X. or Centrex system arranged for dial signaling or to a CCSA access line		
Per Company line connected /CDQ++/ Terminal conditioning equipment (required with each Company line connected)	\$4.85	\$3.63
Common Equipment (4 line capacity) /CDQCE/ Per line connected /CDQTR/	58.15 14.54	8.72 6.78

To connect a customer-provided communications system, with customer-provided inband signaling, to a tie line equipped for two-way dial or automatic signaling which terminates at the distant end in a Company-provided P.B.X. arranged for dial or automatic signaling		
Per Company line connected /C232W/, /C234W/	4.85	3.63

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

17. Voice Transmitting and/or Receiving Terminal Equipment and Communications Systems (cont'd)

(b) Communications Systems (cont'd)	<u>I.N.C.</u>	<u>Per Mo.</u>
(ii) Automatic Arrangements (cont'd)		
To connect customer-provided voice communications facilities to a Company-provided Centrex system		
For Centrex systems each line connected		
2-wire terminations /C2K/	\$48.46	\$15.99
4-wire terminations /C2H/	48.46	15.99
Tie line terminations for each line connected	As shown in Part 20, Section 5	
Arrangement to automatically connect customer-provided equipment or facilities with Company facilities		
<i>Company-provided 24 volt power source</i>		
Common equipment for mounting one or more connecting arrangements /STPTP/	159.92	10.18
Each line arranged at the common equipment location /STP/	22.29	2.42
<i>Company-provided 48 volt power source</i>		
Common equipment for mounting up to 14 connecting arrangements /C2FTP/	179.30	13.81
Each line arranged at the common equipment location /C2F/	22.29	2.42

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

17. Voice Transmitting and/or Receiving Terminal Equipment and Communications Systems (cont'd)

(b) Communications Systems (cont'd)	<u>I.N.C.</u>	<u>Per Mo.</u>
(ii) Automatic Arrangements (cont'd)		
<i>Customer-provided 24 volt power source</i>		
Common equipment for mounting one or more connecting arrangements /STPCP/	\$155.07	\$8.63
Each line arranged at the common equipment location /STP/	22.29	2.42
<i>Customer-provided 48 volt power source</i>		
Common equipment for mounting one or more connecting arrangements /C2FCP/	159.92	9.93
Each line arranged at the common equipment location /STP/	22.29	2.42
Arrangement to automatically connect a customer-provided communications system arranged for Direct Inward Dialing (DID) to an exchange P.B.X. trunk line		
Common equipment for mounting up to 14 connecting arrangements /C22CE/	48.46	21.81
Per P.B.X. trunk arranged /C22/	9.69	1.74

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)**B. Connection Of Terminal Equipment And Communications Systems (cont'd)**

5. Connecting Equipment Applicable to Telecommunications Service (cont'd)

b. Other Protective Connecting Arrangements (cont'd)

17. Voice Transmitting and/or Receiving Terminal Equipment and Communications Systems (cont'd)

(b) Communications Systems (cont'd)	<u>I.N.C.</u>	<u>Per Mo.</u>
(iii) Supplemental Arrangements		
To transfer, during periods of ac power failure, up to 4 trunks (normally connected to a customer-provided system) to a like number of Company-provided telephone sets, with immediate restoral Each 4 trunks arranged /PFB/	\$24.23	\$1.94
To transfer, during periods of ac power failure, one trunk (normally connected to a customer-provided system) to a Company-provided telephone set, with delayed restoral Each trunk arranged /PFC/	14.54	1.94
To connect a customer-provided dc power source to supply power to Company-provided voice connecting arrangements Per installation where 24 volt power is required /VCP24/ ^{/1/}	16.96	.48
Per installation where 48 volt power is required /VCP48/ ^{/1/}	16.96	.48

/1/ New or additional installations of this equipment will not be provided after July 1, 1980.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

- 5. Connecting Equipment Applicable to Telecommunications Service (cont'd)
 - c. Special Connecting Equipment for Certain Facilities of the U.S. Government; Power, Pipe Line and Railroad Companies; Turnpikes and Highways; and Airline Companies

- 1. Rates and Charges

(a)	<u>I.N.C.</u>	<u>Per Mo.</u>
(b)		
(i) Dial		
Mileage terminal service where the Company provides only facilities equivalent to those normally provided for a local terminal		
Protective equipment where furnished by the Company, each /36704/ ^{/1/}	\$0.00	\$1.94
Transmission improvement is provided at charges based on cost		
Signaling improvement for voice grade circuits connected to Company P.B.X. equipment, per circuit /CHP/	29.08	2.91

/1/ New or additional installations of this equipment will not be provided after July 1, 1980.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

- 5. Connecting Equipment Applicable to Telecommunications Service (cont'd)
 - c. Special Connecting Equipment for Certain Facilities of the U.S. Government; Power, Pipe Line and Railroad Companies; Turnpikes and Highways; and Airline Companies (cont'd)

- 1. Rates and Charges (cont'd)

- (c) Where in and out dialing and station identification and billing of long distance telecommunications messages for U.S. Government-provided P.B.X. systems at certified military bases is furnished, the following rates apply:

	<u>Per Mo.</u>
Each P.B.X. trunk arranged for dialing stations directly and for identification and billing of outgoing long distance telecommunications messages by station number /PLH/	\$47.01
Minimum charge, per system	581.52

Minimum contract period for this service is two years.

In case the P.B.X. trunks arranged for dialing to U.S. Government-provided stations and for station identification of long distance telecommunications messages are discontinued or reduced within the minimum contract period, a charge applies determined by the minimum charged or by multiplying the monthly charges for the number of P.B.X. trunk arrangements discontinued by the number of months in the unexpired portion of the initial period.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)

B. Connection Of Terminal Equipment And Communications Systems (cont'd)

- 5. Connecting Equipment Applicable to Telecommunications Service (cont'd)
 - c. Special Connecting Equipment for Certain Facilities of the U.S. Government; Power, Pipe Line and Railroad Companies; Turnpikes and Highways; and Airline Companies (cont'd)
 - 1. Rates and Charges (cont'd)^{/1/}
 - (d) Company switching facilities are provided to furnish in-dialing service on an experimental basis to a government-owned dial P.B.X. system at Scott Air Force Base, at the following charges which are in addition to the regular charges for local exchange service furnished by means of P.B.X. trunks:

In-dialing service arrangement per system at one location	<u>Per Mo.</u>
Minimum charge (30 trunks)	\$1,017.66
<u>Termination Charge - \$36,635.76</u> ^{/2/}	
Each additional trunk /YZY/	54.76
<u>Termination Charge - \$1,221.19</u> ^{/2/}	

- 6. Connecting Equipment Applicable to Telecommunications Channel Service
 - a. Protective Connection Equipment

Where the connection of customer-provided equipment to Company facilities requires the provision of protective connection equipment, such equipment will be furnished by the Company at the following charges:

Each termination on which protective connection equipment is furnished <u>/36702</u> ^{/3/}	1.45
--	------

/1/ New installations of this service were not provided on and after August 1, 1973. Customers having these facilities on that date may retain them at present locations at the rates shown
 /2/ Reduces 1/36 for each month in service.
 /3/ New or additional installations of this equipment will not be provided after July 1, 1980.

See B.5 for regulations governing installation of items shown on this page.

CONNECTIONS (cont'd)**C. Connection with Communications Systems Provided by Other Common Carriers**

1. General Regulations

a. General Provisions

Communications systems provided by Other Common Carriers, hereinafter referred to as OCC, may be connected with the facilities furnished by the Company for exchange and long distance telecommunications services, telecommunications channel service or WATS service as specified in this Section. Facilities provided in the Facilities for Other Common Carriers tariff become part of the communications systems provided by the OCC and may be connected with exchange and long distance telecommunications service, telecommunications channel service and WATS service furnished by the Company as specified in this Section.

b. Responsibility of the Company

1. The facilities of the Company are not represented as adapted to the use of OCC-provided systems and where such systems are connected to Company facilities the responsibility of the Company shall be limited to the furnishing of service components suitable for exchange and long distance telecommunications services, telecommunications channel service or for WATS service and to the design, maintenance and operation of such service components accordingly. Subject to this responsibility the Company shall not be responsible for (1) the through transmission of signals generated by the OCC-provided systems or for the quality of, or defects in, such transmission, or (2) the reception of signals by OCC-provided systems, or (3) network control signaling or address signaling where such signaling is performed by OCC-provided network control signaling or address signaling equipment.
2. The Company shall not be responsible to anyone if changes in minimum network protection criteria as stated in B.1.c.3. preceding, or changes in service components, operations or procedures render any OCC-provided facilities obsolete or require modifications or alterations of such equipment or otherwise affect its use or performance.

CONNECTIONS (cont'd)**C. Connection with Communications Systems Provided by Other Common Carriers (cont'd)**

1. General Regulations (cont'd)

c. Responsibility of the Customer

1. The customer is responsible for making arrangements with the OCC for the installation, operation and maintenance of any OCC-provided communications system. The connection of the OCC-provided communications system with facilities of the Company shall not require a change in or alteration of the equipment or other 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 communications system, or the calling or called party.
2. Upon notice from the Company that the OCC-provided communications system is causing such hazard, damage, malfunction or degradation of service, the customer shall arrange with the OCC to make any changes necessary to remove or prevent such hazard, damage, malfunction or degradation of service.
3. When telecommunications services are directly connected through a service terminating arrangement or connecting arrangement at a customer's premises to an OCC-provided communications system, chargeable time begins when a call from the telecommunications service terminates in or passes through the first switching or key telephone type system or terminal equipment on that communications system. It is the customer's responsibility to furnish appropriate answer supervision to the point of connection with the telecommunications service so that chargeable time may begin.

CONNECTIONS (cont'd)**C. Connection with Communications Systems Provided by Other Common Carriers (cont'd)**

1. General Regulations (cont'd)

d. Violation of Regulations

Where any OCC-provided communications system is connected to exchange and long distance telecommunications services, telecommunications channel service or WATS service furnished by the Company in violation of any of the provisions in this Section, the Company will take such immediate action as reasonably necessary for the protection of its network and facilities (including interruption of the service), and will promptly notify the customer of the violation. The customer shall discontinue such connection of the 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 connection has ceased or that the violation has been corrected. Failure of the customer to discontinue such connection or to correct the violation and to give the required written confirmation to the Company within the time stated above shall result in interruption of the customer's service until such time as the customer complies with the provisions of the guidebook.

e. OCC Service

The furnishing of exchange and long distance telecommunications services, telecommunications channel service or WATS service by the Company is not part of a joint undertaking with the OCCs.

f. Long Distance Telecommunications Service

Communications systems provided by OCC may be used in connection with Long Distance Telecommunications Service subject to the conditions outlined in this Section for Exchange Telecommunications Service.

g. Wide Area Telecommunications Service

Communications systems provided by OCC may be used in connection with Wide Area Telecommunications Service subject to the conditions outlined in this Section for Exchange Telecommunications Service.

CONNECTIONS (cont'd)**C. Connection with Communications Systems Provided by Other Common Carriers (cont'd)**

2. Regulations Relating to Connection with Exchange Telecommunications Service
 - a. Conditions for Connection of OCC Communications Systems at the Premises of the Customer

OCC-provided communications systems (analog not exceeding voice grade, or digital) may be connected with exchange telecommunications services at the premises of the customer provided that:

1. The connection is made by means of an acoustic or inductive device and such connection is effected externally to the network control signaling unit when such unit is provided by the Company, or
2. The connection is made through a service terminating arrangement in one of the following ways:
 - Through switching equipment,
 - Through a channel derivation device, or
 - Directly to the service terminating arrangement.

Where WATS is the exchange telecommunications service being connected to an OCC-provided communications system such connection shall be made only if the customer has a requirement to communicate over the WATS line to or from premises of that customer in Illinois.

3. The rates and charges for equipment and service provided by the Company shall be the same as those that would apply if Company services and channels were so connected. The rates and charges to the customer are in addition to the rates and charges made by the OCC for the services and channels which it provides.
- b. Conditions for Connection of OCC Communications Systems at the Premises of the Customer
 1. OCC-provided communications systems (utilizing Central Office Connecting Facilities), not exceeding voice grade, provided to a customer, may be directly connected with exchange telecommunications service furnished by the Company to the same customer, provided such connections are made through:

CONNECTIONS (cont'd)**C. Connection with Communications Systems Provided by Other Common Carriers (cont'd)**

2. Regulations Relating to Connection with Exchange Telecommunications Service (cont'd)
 - b. Conditions for Connection of OCC Communications Systems at the Premises of the Customer (cont'd)
 1. (cont'd)
 - (a) Direct one-party business lines or P. B. X. trunk exchange lines to permit communications via the OCC-provided interstate communications service to or from the customer's premises located in an exchange foreign to the exchange in which the connection is made.
 - (b) Centrex Control Switching Equipment furnished in accordance with the Centrex Service provisions of this guidebook.

Where WATS is the exchange telecommunications service being connected to an OCC-provided communications system, such connection shall be made only if the customer has a requirement to communicate over the WATS line to or from premises of that customer in Illinois.

2. OCC-provided communications systems (utilizing WATS Central Office Connecting Facilities), not exceeding voice grade, provided to a customer, may be directly connected with WATS furnished by the Company to the same customer, at a Company designated WATS central office provided that:
 - (a) The customer has a requirement to communicate over the WATS line from or to the premises of that customer.
 - (b) Such OCC communications systems are dedicated to the exclusive use of the WATS customer and are terminated at the premises of the OCC in switching equipment provided by the OCC to the WATS customer as part of its authorized domestic switched private line service.
 - (c) All communications over Outward WATS will originate at the premises of the WATS customer via an access channel dedicated to the private use of the WATS customer. That access channel and all intermediate channels, if any, shall not be used or usable for public communications service.

CONNECTIONS (cont'd)**C. Connection with Communications Systems Provided by Other Common Carriers (cont'd)**

2. Regulations Relating to Connection with Exchange Telecommunications Service (cont'd)
 - b. Conditions for Connection of OCC Communications Systems at the Premises of the Customer (cont'd)
 2. (cont'd)
 - (d) All communications over Inward WATS will terminate at the premises of the WATS customer via an access channel dedicated to the private use of the WATS customer. That access channel and all intermediate channels, if any, shall not be used or usable for public communications service.
 - (e) Where Inward WATS is connected to an Other Common Carrier Channel, the Other Common Carrier switching equipment shall provide the necessary supervision so that chargeable time begins upon delivery of the WATS call to such switching equipment and ends upon termination of the call by the calling party.
3. Regulations Relating to Connection with Telecommunications Channel Service

Where a telecommunications channel service furnished by the Company is used in the provision of a composite data service for others and connection of that telecommunications channel service is made to a communications system provided by an OCC and the connection is made through customer-provided data switching equipment, the regulations specifying the following requirements are not applicable:

- Communications originating or terminating at the premises on which the connection is made;
- the normal mode of operation of the communications system being to provide communications originating or terminating at the premises on which the connection is made;
- and connection through switching equipment.

A communication system provided by an OCC to a customer or joint user of telecommunications channel service furnished by the Company may be connected at the premises of the customer or joint user to the channels of a telecommunications channel service furnished by the Company where the customer or joint user has a regular and continuing requirement for the origination or termination of communications over the OCC-provided communications system provided that:

CONNECTIONS (cont'd)**C. Connection with Communications Systems Provided by Other Common Carriers (cont'd)**

3. Regulations Relating to Connection with Telecommunications Channel Service (cont'd)
 - a. 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.
 - b. The telecommunications channel service furnished by the Company shall be voice grade.
 - c. Where the connection of an OCC-provided communications system is by means of a direct electrical connection, such connection shall be made through switching equipment provided either by the customer, joint user or the Company. Where the connection is by means of switching equipment provided by the customer 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 in B.2 preceding applicable to the connection of customer-provided communications systems shall apply.
 - d. 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 Company-provided voice transmitting and receiving equipment.
 - e. Connection shall be made only if the OCC forms of electrical communications are the same as and consistent with those used by the Company in providing its service with which the OCC-provided communications system is connected.
 - f. Connections where joint users are involved are also subject to the provisions of Joint User Arrangement in Part 4, Section 5.
 - g. The rates and charges for equipment and service provided by the Company shall be the same as those that would apply if Company services and channels were so connected. The rates and charges to the customer are in addition to the rates and charges made by the OCC for the services and channels which it provides.

4. Conditions for Connection of OCC Communications Systems at the Premises of the Company

OCC-provided communications systems (utilizing Central Office Connecting Facilities), not exceeding voice grade, may be connected with telecommunications channel service provided by the Company to the same customer, provided the connection is made through Centrex Control Switching Equipment furnished in accordance with the Centrex service provisions of this guidebook.

CONNECTIONS (cont'd)**D. Connections Through Miscellaneous Common Carriers**

1. General

- a. Exchange and long distance telecommunications services are available to and from mobile units of customers of a Miscellaneous Common Carrier where:
 1. An interconnection agreement is in force between the Miscellaneous Common Carrier (MCC) and the Company, and
 2. Interconnected equipment and local connecting facilities are provided solely by the Company, and
 3. Interconnected traffic is handled directly by the MCC's operator.
- b. The rates set forth below are applicable to the calls originated by customers of the Miscellaneous Common Carrier for that portion of the service from the point of connection with the facilities of the Company to stations in the local service area of the Company's serving exchange.
 1. Customers of a Miscellaneous Common Carrier mobile radio system are furnished message rate interconnected service at a charge for each originating local message.
 2. Interconnected service local messages are messages between telephone stations located within the local service area of the Company's serving exchange and the mobile units of the Miscellaneous Common Carrier which are within range of the Miscellaneous Common Carrier base station which serves the area.
- c. Additional charges, which the Miscellaneous Common Carrier bills to and collects from its customers, are applicable to its portion of the interconnected service as set forth in the Miscellaneous Common Carrier's tariff.
- d. One listing is provided without charge for each Miscellaneous Common Carrier mobile radio system. Additional listings on the connecting channel numbers are furnished under the regulations and at the rates and charges for regular business additional listings. (T)
- e. The Miscellaneous Common Carrier is responsible for the billing and collection of all charges payable by its customers for telephone messages originating or terminating on its system.

CONNECTIONS (cont'd)**D. Connections Through Miscellaneous Common Carriers (cont'd)**

2. Rates

Message rate interconnected service is furnished to customers of a Miscellaneous Common Carrier at the charges shown below.^{/1/}

Interconnected service is furnished to customers of a Miscellaneous Common Carrier at the charges shown below.^{/2/}

a. When the point of connection is within a Chicago district or other district of MSA 1:

Message Unit rating applies as is shown for Business service in Part 4, Section 2, paragraph D.3. Message units are charged at the rates specified in paragraph D.3.c. Calls are rated from the originating district.^{/1/}

Minutes of Use rating applies as is shown for *Business Usage Service* in Part 4, Section 2, paragraph C.1.a. Usage is charged at the rates specified in paragraph C.2.a. Calls are rated from the originating district.^{/2/}

b. In other exchanges when the point of connection is within the exchange area of the Company's serving exchange.^{/3/}

To telephones within the flat rate calling area for *Local Area Service*, the charge for each local message is \$.0485. Each five minutes or fraction thereof of the local communications may be counted and charged for as a separate message.^{/3/}

In MSAs 4, 5, 10, 12, 13 and 16 when the point of connection is within the exchange area of the Company's serving exchange:^{/4/}

To telephones within the flat rate calling area for *Local Area Service*, the charge for each local message is \$.0485. Each five minutes or fraction thereof of the local communications may be counted and charged for as a separate message.^{/4/}

c. In MSAs 2, 3, 6, 7, 9 and 15 when the point of connection is within the area of the Company's serving district:^{/4/}

Minutes of Use rating applies as shown for *Business Usage Service* in Part 4, Section 2, paragraph C.1.a. Usage is charged at the rates specified in C.2.a.. Calls are rated from the originating district.^{/4/}

/1/ Effective for services rendered up to the first day of billing periods beginning on and after January 1, 1990, and is discontinued for services rendered thereafter.

/2/ Effective for services rendered on and after the first day of billing periods beginning on and after January 1, 1990.

/3/ Effective for services rendered up to the first day of billing periods beginning on and after July 1, 1990, and is discontinued for services rendered thereafter.

/4/ Effective for services rendered on and after the first day of billing periods beginning on and after July 1, 1990.