

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES****1. General Provisions****A. General**

Terminal equipment and communications systems provided by the customer may be connected at the customer's premises to telecommunications services furnished by the Telephone Company where such connections are made in accordance with the provisions of this Section. Telecommunications services as used herein includes exchange service. The classification of central office lines required shall be the same as that required for Telephone Company-provided equipment of analogous application and use.

**B. Responsibility of the Customer**

1. 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 Telephone Company, cause electrical hazards to Telephone Company personnel, damage to Telephone Company equipment, malfunction of Telephone Company billing equipment, or degradation of service to persons other than the user of the subject terminal equipment or communications system, his calling or called party. Upon notice from the Telephone 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 changes as shall be necessary to remove or prevent such hazard, damage, malfunction or degradation of service.
2. The customer shall be responsible for the payment of a Maintenance of Service Charge for visits by a Telephone Company employee to the customer's premises when a service difficulty results from the use of customer-provided terminal equipment communications system or accessory associated with the service.
3. The customer who provides the Premises Wiring of Communications Systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations pursuant to Section 68.215 of Chapter of Title 47 of that Code of Federal Regulations shall be responsible for the payment of an Institutional Program for Premises Wiring Charge for activities performed by Telephone Company employees at the customer's premises pursuant to subsections (f), (g) and/or (h)

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**1. General Provisions (cont'd)**

B. Responsibility of the Customer (Cont'd)

3. (Cont'd)

of said Section 68.215, when the premises wiring in question has failed acceptance tests monitored by, or participated in by, the Telephone Company pursuant to Section 68.215, and/or has been revealed to be not in conformance with the information provided in the related affidavit which was provided pursuant to Section 68.215, and/or has resulted in a harm to the network.

When the installation proves satisfactory, no charge will apply.

C. Responsibility of the Telephone Company

1. 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 Telephone Company shall be limited to the furnishing of service components suitable for telecommunications services and to the maintenance and operation of service components in a manner proper for such services. Subject to this responsibility the Telephone 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) 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.
2. The Telephone 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.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**1. General Provisions (cont'd)**

C. Responsibility of the Telephone Company (Cont'd)

3. The Telephone 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.

D. Recording of Two-Way Telephone Conversations

Telecommunications services are not represented as adapted to the recording of two-way telephone conversations. However, customer-provided recording equipment may be connected directly acoustically or inductively with telecommunications services, in accordance with 3. following, subject to the following conditions or 2.;

1. Either a distinctive recorder tone that is repeated at intervals of approximately fifteen seconds is required when recording equipment is in use and is electrically connected with services of the Telephone Company or; a consent to record is required prior to the recording or; by verbal notification which is recorded at the beginning, and as part of the call, by the recording party. The consent must be in writing or be part of the recording. These will not be required:
  - (a) When used by a broadcast licensee provided at least one of the following requirements is met: (1) the licensee informs each party to the call of its intent to broadcast the conversation (2) each party to the call is aware of the licensee's intent to broadcast the call, or (3) such awareness of the licensee's intent to broadcast the call may be reasonable imputed to the party.
  - (b) 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 his immediate family, or the White House and its grounds.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**1. General Provisions (cont'd)**

D. Recording of Two-Way Telephone Conversations (Cont'd)

- (c) 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.
  - (d) When used for recording patently unlawful purposes such as bomb threats, kidnap, ransom requests, obscene telephone calls and outgoing calls made in immediate response to such calls.
  - (e) When used for incoming calls to the telephone numbers publicized for emergencies involving health or safety of life and property and outgoing calls made in immediate response.
  - (f) When used with calls made by Federal, State or local law enforcement authorities or federal intelligence authorities under color of law.
  - (g) 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.
2. 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 Telephone Company or switched on and off.
3. If the Telephone Company is required to investigate an alleged non-consensual recording, which discloses a conflict between the parties to the conversation on the matter of consent, the recording party will have to provide taped or written evidence that consent was obtained.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**1. General Provisions (cont'd)**

E. Violation of Regulations

When any terminal equipment or communications system is used with telecommunications services in violation of any of the provisions in this Section, the Telephone Company will take such immediate action as necessary for the protection of the telecommunications network and Telephone 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 Telephone Company within the time stated above shall result in suspension of the customer's service until such time as the customer complies with the provisions of this Guidebook.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**1. General Provisions (cont'd)**

F. Definitions

Equipment-to-Equipment Connection

The term "Equipment-to-Equipment Connection" as used herein denotes the connection of equipment, which by itself is unregistrable for direct use with the telecommunications network, but is register-able or usable with host terminal equipment or communications systems which in turn may be registered in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations for direct connection to the telecommunications network.

Grandfathered Communications Systems

The term "Grandfathered Communications Systems" as used herein denotes communications systems (including their equipment, premises wiring and protective circuitry if any) connected at the customer's premises, in accordance with any Telephone Company's Tariffs, and that are considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because, such systems are connected to the telecommunications network prior to January 1, 1980 and are of a type of system which was directly connected (i.e., without Telephone Company-provided connecting arrangements) to the telecommunications network as of June 1, 1978.

Grandfathered Connections of Communications Systems

The term "Grandfathered Connections of Communications Systems" as used herein denotes connections via Telephone Company-provided arrangements of communications systems (including their equipment and premises wiring) at the customer's premises, in accordance with any Telephone Company's Tariffs, and that are considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because, such connections to the telecommunications network are made via Telephone Company-provided connecting arrangements prior to January 1, 1980 and such connecting arrangements are of a type of connecting arrangement connected the telecommunications network as of June 1, 1978.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**1. General Provisions (cont'd)**

F. Definitions (Cont'd)

Grandfathered Terminal Equipment

The term "Grandfathered Terminal Equipment" as used herein denotes terminal equipment (including protective circuitry if any) connected at the customer's premises, in accordance with any Telephone Company's Tariffs, and that is considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because, such terminal equipment was connected to the telecommunications network prior to July 1, 1979 and is of a type of terminal equipment which was directly connected (i.e., without Telephone Company-provided connecting arrangements) to the telecommunications network as of October 17, 1977.

Grandfathered Connections of Terminal Equipment

The term "Grandfathered Connections of Terminal Equipment" as used herein denotes connections via telephone company-provided connecting arrangements of terminal equipment connected at the customer's premises, in accordance with any telephone company's tariffs, and that are considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because, such connections to the telecommunications network were made via telephone company-provided connecting arrangements prior to July 1, 1979 and such connecting arrangements are the same type of connecting arrangement connected to the telecommunications network as of October 17, 1977.

Registered Equipment

The term "Registered Equipment" as used herein denotes equipment which complies and has been approved within the Registration provisions of Part 68 of the Federal Communications Commission's Rules and Regulations.

**2. Connections of Registered Equipment**

A. 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, in 1. preceding and the following:

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**2. Connections of Registered Equipment (cont'd)**

A. Registered Terminal Equipment, Registered Protective Circuitry and Registered Communications Systems (Cont'd)

1. All combinations of registered equipment and associated non-registered terminal equipment (including but not limited to wiring) shall be installed, operated and maintained so that the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are Continually satisfied.

The Telephone Company may discontinue service or impose other remedies as provided for in Part 68 of the Federal Communications Commission's Rules and Regulations for failure to comply with these provisions.

2. The customer shall notify the Telephone Company of each line to which registered equipment is to be connected in advance of such connection and shall notify the Telephone Company when such registered equipment is permanently disconnected. The customer shall provide the Telephone Company the Registration Number and Ringer Equivalence Number for the registered equipment and Universal Service Order Code (USOC) of the Telephone Company-provided standard jack required.
3. The customer shall not connect registered equipment to a Telephone Company line if:
  - (a) the Ringer Equivalence of such equipment in combination with the total Ringer Equivalence of other equipment connected to the same line exceeds the allowable maximum of five or as otherwise determined by the Telephone Company, or
  - (b) the ringer type is not a ringer type designated by the Telephone Company as suitable for that particular line.
4. Unless a specific waiver has been granted by the Federal Communications Commission or except as otherwise provided in (5) following, all connections of registered equipment to services furnished by the Telephone Company shall be made through Telephone Company-provided standard jacks; or, in the case of registered communications systems, through standard jacks wired in other than a standard manner, when nonstandard wiring is agreed to by the Telephone Company.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**2. Connections of Registered Equipment (cont'd)**

A. Registered Terminal Equipment, Registered Protective Circuitry and Registered Communications Systems (cont'd)

5. The requirement for the use of standard jacks as described in (4) preceding is waived for registered equipment which is located in hazardous or inaccessible locations. (T)

B. Premises Wiring Associated With Registered Communications Systems

1. 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.
- a. Fully-Protected Premises Wiring is premises wiring which is:
- (i) 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.
  - (ii) A cord which complies with (i) preceding 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.
  - (iii) 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.
  - (iv) 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. (T)

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**2. Connections of Registered Equipment (cont'd)**

B. Premises Wiring Associated With Registered Communications Systems (Cont'd)

1. (Cont'd)

(b) Protected Premises Wiring requiring Acceptance Testing for Imbalance is premises wiring which is electrically behind registered equipment, system components or circuitry which assure that electrical contact between the wiring and commercial power wiring will not result in hazardous voltages at the telephone network interface.

(c) Unprotected Premises Wiring is all other premises wiring.

2. Customers who intend to connect premises wiring other than fully protected premises wiring to the telephone network shall give advance notice to the Telephone 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.

3. The Telephone Company may invoke extra-ordinary procedures specified in Part 68 of the Federal Communications Commission's Rules and Regulations where one or more of the following conditions are present:

(a) Information provided in the supervisor's affidavit give reason to believe that a violation of Part 68 of the Federal Communications Commission's Rules and Regulations is likely.

(b) A failure has occurred during acceptance testing for imbalance.

(c) 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 Telephone 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.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**2. Connections of Registered Equipment (cont'd)**

C. Connections Involving National Defense and Security

1. 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:
  - (a) 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 Telephone Company that:
    - (i) The connection is required in the interest of national defense and security;
    - (ii) The equipment to be connected either complies with the technical requirements of Part 68 or will not cause harms to the telecommunications network or Telephone Company employees; and
    - (iii) The work is supervised by an installation supervisor who meets the qualifications stated in Part 68.

3. Connections of Grandfathered Terminal Equipment and Grandfathered Communications System (as defined in 1.F preceding)

A. Direct Connections

1. Grandfathered Terminal Equipment

Grandfathered terminal equipment 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:

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**3. Connections of Grandfathered Terminal Equipment and Grandfathered Communications System (As defined in 1.F Preceding) (cont'd)**

A. Direct Connections (Cont'd)

1. Grandfathered Terminal Equipment (Cont'd)

- (a) the customer shall notify the Telephone Company when such grandfathered terminal equipment is to be connected and shall notify the Telephone 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;
- (b) all such connections are made through Telephone Company-provided standard jacks or are otherwise connected by the Telephone Company; and
- (c) all such connections shall comply with the minimum protection criteria set forth in (C) following.

2. 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:

- (a) All such connections shall comply with the minimum protection criteria set forth in (C) following.
- (b) No changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.
- (c) Premises wiring shall conform to Part 68 of the Federal Communications Commission's Rules and Regulations.
- (d) The customer shall notify the Telephone Company when such communications systems are to be connected and shall notify the Telephone 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.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**3. Connections of Grandfathered Terminal Equipment and Grandfathered Communications System (As defined in 1.F Preceding) (cont'd)**

A. Direct Connections (Cont'd)

2. Grandfathered Communications Systems (Cont'd)

- (e) All such connections are made through Telephone Company-provided standard jacks or are otherwise connected by the Telephone Company.
- (f) Additions to grandfathered communications systems may be made without registration of any additional equipment involved if:
  - (i) equipment so added is being reconnected, i.e., was previously directly connected prior to January 1, 1980, in accordance with Telephone Company Tariffs; and
  - (ii) such additions comply with the provisions of (2)(a) through (e) preceding.
- (g) Additions of registered equipment are subject to 2. preceding.

3. Terminal equipment and communications systems connected to the telecommunications network via customer-provided grandfathered protective circuitry are subject to provisions of (1) and (2) preceding.

B. Connections Through Connecting Arrangements Provided by the Telephone Company

1. General

(a) Basis of Connections

- (i) Grandfathered connections of terminal equipment and grandfathered connections of communications systems made in accordance with 3.(B)(2) and (3) respectively 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 Telephone Company subject to their availability and subject to applicable rates and charges.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**3. Connections of Grandfathered Terminal Equipment and Grandfathered Communications System (As defined in 1.F Preceding) (cont'd)**

B. Connections Through Connecting Arrangements Provided by the Telephone Company (Cont'd)

1. General (Cont'd)

(a) Basis of Connections (Cont'd)

- (ii) Until July 1, 1980, the Telephone Company will provide connecting arrangements for installations of new customer-provided devices or systems components connected at the customer's premises to terminal equipment or communications systems provided by the Telephone Company (that is, equipment-to-equipment connections). Equipment-to-equipment connections made prior to July 1, 1980, may remain connected and be moved and reconnected for the life of such devices or system components (and may be modified only in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations), or for the life of the Telephone Company-provided terminal equipment or communications system. Connecting arrangements used for reconnection of such customer-provided devices or system components will continue to be provided by the Telephone Company, subject to their availability, subject to applicable rates and charges.
- (iii) Communications systems which are not subject to Part 68 of the Federal Communications Commission's Rules and Regulations may be connected in accordance with the following. Telephone Company-provided connecting arrangements are furnished for the connection of such systems subject to applicable rates and charges.
- (iv) Terminal equipment may be connected in accordance with paragraph 2.9 following to services of the Telephone Company specifically exempted from the Federal Communications Commission's Registration Program. Telephone Company-provided connecting arrangements are furnished for the connections of such equipment subject to applicable rates and charges.
- (v) Separate, identifiable and discrete protective circuitry (i.e., connecting arrangements) used for grandfathered connections of communications systems to the telecommunications network may be removed or replaced with apparatus of lesser protective function, provided that any equipment, and any premises wiring whose classification is changed thereby, conforms to Part 68 of the Federal Communications Commission's Rules and Regulations.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**3. Connections of Grandfathered Terminal Equipment and Grandfathered Communications System (As defined in 1.F Preceding) (cont'd)**

B. Connections Through Connecting Arrangements Provided by the Telephone Company (Cont'd)

1. General (Cont'd)

(b) Network Control Signaling

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

- (i) Tone-type address signaling is permissible through a Telephone Company-provided connecting arrangement when the customer has the capability to originate calls by means of such instruments.
- (ii) Signaling functions may be performed by Conforming Answering Devices specified in (E) following.

2. Grandfathered Connections of Terminal Equipment

(a) Data Terminal Equipment

Subject to the provisions of (1)(a)(i) and (iv) preceding, 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 Telephone Company in accordance with the following:

- (i) The customer shall furnish the equipment which performs the functions of:

- /1/ conditioning the data signals generated by the customer-provided terminal equipment to signals suitable for transmission by means of Telephone Company services, and
- /2/ conditioning signals transmitted by means of Telephone Company Services to data signals suitable for reception by customer-provided equipment.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**3. Connections of Grandfathered Terminal Equipment and Grandfathered Communications System (As defined in 1.F Preceding) (cont'd)**

B. Connections Through Connecting Arrangements Provided by the Telephone Company (Cont'd)

2. Grandfathered Connections of Terminal Equipment (Cont'd)

(a) Data Terminal Equipment (Cont'd)

(ii) Data terminal equipment must comply with the minimum protection criteria specified in (C) following.

(iii) Where a data access arrangement is furnished in connection with terminal equipment and such terminal equipment is used for both voice and data communication, the data access arrangement may be used to connect the terminal equipment for voice communications.

(b) Voice Terminal Equipment

Subject to the provisions of (1)(a)(i) and (iv) preceding, voice terminal equipment may be connected at the customer's premises to the telecommunications network in accordance with the following:

(i) The connection shall be made through a network control signaling unit and a connecting arrangement furnished by the Telephone Company. In accordance with (D) and (E) following, a connecting arrangement is not required for the connection of Attested Equipment or Conforming Answering Devices.

(ii) Where a data access arrangement is furnished in connection with terminal equipment and such terminal equipment is used for both voice and data communication, the data access arrangement may be used to connect the terminal equipment for voice communication.

(iii) The voice terminal equipment must comply with minimum protection criteria specified in (C) following.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**3. Connections of Grandfathered Terminal Equipment and Grandfathered Communications System (As defined in 1.F Preceding) (cont'd)**

B. Connections Through Connecting Arrangements Provided by the Telephone Company (Cont'd)

3. Grandfathered Connections of Communications Systems

Subject to the provisions of (1)(a)(i) preceding, communications systems may be connected at the customer's premises to telecommunications services in accordance with the following:

- (a) The connection shall be through a network control signaling unit and connecting arrangement furnished by the Telephone Company.
- (b) The provisions relating to minimum protection criteria set forth in (C) following shall apply to the connection of communications systems.

C. Minimum Protection Criteria for Electrical Connections

- 1. To prevent excessive noise and crosstalk in the network, it is necessary that the power of the signal at the central office not exceed 12dB below one milliwatt when averaged over any three second interval. To insure that this limit is not exceeded the power of the signal which may be applied by the equipment to the Telephone Company interface located on the customer's premises will be specified for each customer location but in no case shall it exceed one milliwatt.
- 2. To protect other services, it is necessary that the signal which is applied by the equipment to the Telephone Company interface located on the customer's premises meet the following limits:
  - (a) The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18dB below the power of the signal as specified in (1) above.
  - (b) The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16dB below one milliwatt.
  - (c) The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24dB below one milliwatt.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**3. Connections of Grandfathered Terminal Equipment and Grandfathered Communications System (As defined in 1.F Preceding) (cont'd)**

C. Minimum Protection Criteria for Electrical Connections (Cont'd)

2. (Cont'd)

- (d) The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36dB below one milliwatt.
- (e) The power in the band above 40,000 Hertz shall not exceed 50dB below one milliwatt.

- 3. To prevent the interruption or disconnection of a call, or interference with network control signaling, it is necessary that the signal applied by the customer-provided equipment to the Telephone 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 4750 Hertz band, it must not exceed the power present at the same time in the 800 to 2450 Hertz band.

D. Attested Equipment Connected Prior to July 1, 1980

- 1. Until July 1, 1980, headsets and non-powered conferencing equipment which meet the standards and procedures set forth by the Telephone Company in Technical References for Attested Equipment may be connected at the customer's premises to the telecommunications network in accordance with (a) through (e) following. Such equipment may remain connected and be moved and reconnected in accordance therewith for the life of the equipment unless subsequently modified.
  - (a) The connection shall be made through an interface termination (e.g., headset jack) provided by the Telephone Company.
  - (b) The Identification Number issued by the Telephone Company to the manufacturer or supplier must appear on each unit of Attested Equipment utilized.
  - (c) Customers must notify the Telephone 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.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**3. Connections of Grandfathered Terminal Equipment and Grandfathered Communications System (As defined in 1.F Preceding) (cont'd)**

D. Attested Equipment Connected Prior to July 1, 1980 (Cont'd)

1. (Cont'd)

(d) Attested Equipment may not:

- (i) be connected to a source of electrical power which is external to the telecommunications network;
- (ii) be grounded;
- (iii) perform any network control signaling functions prior to and including the establishment of the intended transmission path;
- (iv) have amplification in the transmission path (other than single ended terminal devices with the maximum gain limited so that the output power meets the minimum protection criteria set forth in (C) preceding); and
- (v) 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 Telephone Company.

(e) Attested Equipment must comply with the minimum protection criteria set forth in (C) preceding.

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

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

1. Conforming Answering Devices which meet the standards and procedures set forth by the Telephone Company in Technical References for Conforming Answering Devices and which were connected at the customer's premises to the telecommunications network prior to July 1, 1979, in accordance with (a) through (e) following, may remain connected and be moved and reconnected in accordance therewith for the life of the equipment, unless subsequently modified.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**3. Connections of Grandfathered Terminal Equipment and Grandfathered Communications System (As defined in 1.F Preceding) (cont'd)**

E. Conforming Answering Devices Connected Prior to July 1, 1979 (Cont'd)

1. (Cont'd)

- (a) Customers shall notify the Telephone Company of their intention to connect Conforming Answering Devices. Such notification shall include the location at which the Conforming Answering Device is to be used as well as its Conformance Number.
- (b) The Conforming Answering Device shall only be connected by means of a jack or jack arrangement provided by the Telephone Company.
- (c) The Conforming Answering Device shall be operated and maintained in accordance with those instructions furnished with such Conforming Answering Device as required by the Telephone Company's Technical Reference for Conforming Answering Devices.
- (d) Conforming Answering Devices may not:
  - (i) be used to transmit or receive data signals;
  - (ii) be used with party line service or with public or semi-public coin telephone service; and
  - (iii) be used to originate calls.
- (e) The Conforming Answering Device Shall comply with the minimum protection criteria set forth (C) preceding.

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

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (Cont'd)**

**4. Acoustic or Inductive Connections**

A. General

1. Voice or data terminal equipment (including tele-photograph equipment) and communications systems may be acoustically or inductively connected at the customer's premises to the telecommunications network provided the acoustic or inductive connection is made externally to the network control signaling unit when such unit is provided by the Telephone Company.
2. Tone-type address signaling is permitted through such connections, however, the services of the Telephone Company are not designed for such use and the Telephone Company makes no representation as to the reliability of address signaling which is performed in such manner.

B. Minimum Protection Criteria

1. To prevent excessive noise and crosstalk in the network, it is necessary that the power of the signal which is applied by the 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 Telephone 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 Telephone 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.
2. To protect other services, it is necessary that the signal which is applied by the 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:
  - (a) The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18dB below the power of the signal as specified in (1) preceding.
  - (b) The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16dB below one milliwatt.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**4. Acoustic or Inductive Connections (cont'd)**

B. Minimum Protection Criteria (Cont'd)

2. (Cont'd)

- (c) The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24dB below one milliwatt.
- (d) The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36dB below one milliwatt.
- (e) The power in the band above 40,000 Hertz shall not exceed 50dB below one milliwatt.

- 3. To prevent the interruption or disconnection of a call, or interference with network control signaling, it is necessary that the signal applied by the 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.

**5. Accessories**

Accessories may be used with telecommunications services provided that such accessories comply with the provisions of 1.(B) and 3.(B)(1)(b) preceding.

**6. Equipment-to-Equipment Connections**

- A. Equipment-to-equipment connections, as defined in 1.(F) preceding, will only be permitted when:

- 1. 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. (T)

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**6. Equipment-to-Equipment Connections (cont'd)**

A. (Cont'd)

2. Connection of the added equipment to the host is made through a Telephone Company-provided interface which:
  - (a) Provides all points of connection between the added equipment and wiring internal to host equipment housings.
  - (b) Permits reasonable trouble isolation, as determined by the Telephone Company.
  - (c) Is otherwise acceptable to the Telephone Company for the specific connection to be accomplished.

**7. Connections of Communications Systems not subject to Part 68 of the Federal Communications Commissions Rules and Regulations**

A. Communications systems not subject to Part 68 of the Federal Communications Commission's Rules and Regulations may be connected with telecommunications services in accordance with this provision. These communications systems (including channels derived from such systems), not exceeding voice grade, may be connected at the customer's premises provided that:

1. Such telecommunications service or communications system is utilized for the origination or termination of communications at the customer's premises where the connection is made.
2. The connection shall be through a network control signaling unit and connecting arrangement furnished by the Telephone Company.
3. The connection shall be made through switching equipment provided either by the customer or by the Telephone Company.
4. The provisions relating to minimum protection criteria set forth in 3.(C) preceding shall apply to the connection of customer-provided communications systems.

Where the telecommunications service is used in the provision of a composite data service for others and connection of such service is made to a communications system and the connection is made through data switching equipment, the provisions of (1) and (3) above do not apply.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**8. Connections of Terminal Equipment to Services Specifically Exempted from the Federal Communications Commission's Registration Program**

- A. Terminal equipment may be connected at the customer's premises to party line and semi-public coin services of the Telephone Company in accordance with the following:
  - 1. The connection shall be through a network control signaling unit and connecting arrangement furnished by the Telephone Company.
  - 2. The terminal equipment must comply with the minimum protection criteria set forth in 3.(C) preceding.

**9. Connections of certain facilities of Power, Pipeline and Railroad Companies**

- A. General
  - 1. Except as otherwise provided in (B) following telephone facilities of an electric power company, an 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 3. and 7. preceding, be connected with the telecommunications network, for the following purposes:
    - (a) in cases of emergency involving safety of life or property;
    - (b) 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;
    - (c) in cases where the customer facilities serve locations where it is impracticable because of hazard or inaccessibility for the Telephone Company to furnish its facilities; and
    - (d) during an interim period in cases where the customer has arranged for replacement of said customer facilities with facilities of the Telephone Company.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**9. Connections of Certain Facilities of Power, Pipeline and Railroad Companies (cont'd)**

- A. General (Cont'd)
  - 2. Telephone circuits of such companies will be connected to a local or toll central office line to form a through connections only through manual switching equipment, or an attendant's position of dial PBX equipment furnished to the customer by the Telephone Company. Such equipment or position may be located at either or both ends of the customer's circuit.
  - 3. Connection of a telephone circuit of such companies as specified in (1)(b), (c) or (d) preceding may be established at either end of such circuit, but shall not be established at both ends simultaneously.
- B. Terminal equipment and communications systems connected to the telecommunications network in accordance with (A) 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 2. preceding.

**10. Connections of certain facilities of the U.S. Army, Navy and Air Force**

- A. General
  - 1. Except as otherwise provided in (B) 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 3. and 7. preceding, be connected to the telecommunications network where the Secretary of the appropriate Department certifies in writing that reasons of military necessity require that the establishment be served by a telephone system of the Department. In addition, the facilities of a temporary telephone system of such Department located off a permanent establishment of the Department for maneuvers, mobilization tests or technical service tests will be so connected.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (cont'd)**

**10. Connections of certain facilities of the U.S. Army, Navy and Air Force (cont'd)**

- A. General (Cont'd)
  - 2. Except as otherwise provided in (B) following, telephone facilities of the U.S. Department of the Army, Navy or Air Force, other than those described in (1) preceding, may, in lieu of the provisions of 3. and 7. preceding, be connected by means of switching or connecting equipment furnished by the Telephone Company, to a PBX switchboard or other telephone switching or terminal equipment, where the Secretary of the appropriate Department or his authorized representative notifies the Telephone Company in writing that such connection is required for reasons of military necessity. Such Department telephone facilities will be connected to the telecommunications network only in cases of emergency involving safety of like or property, unless the aforesaid Department facilities are in locations where it is impracticable for the Telephone Company to furnish its facilities.
- B. Terminal equipment and communications systems connected to the telecommunications network in accordance with (A) 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 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 2. preceding.

**11. Connections of Service Station Lines and Facilities furnished by the customer which involve Hazardous or Inaccessible Locations**

- A. Except as otherwise provided in (B) following, service station lines, and facilities furnished by the customer which involve hazardous or inaccessible locations, may be connected to the telecommunications network.
- B. Terminal equipment and communications systems connected to the telecommunications network in accordance with (A) 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 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 2. preceding.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO EXCHANGE SERVICES (Cont'd)**

**12. Connections of certain facilities provided by Airline Companies and Federal Aviation Administration**

Facilities provided by an Air Common Carrier, its authorized communications agency, or the Federal Aviation Administration to communicate with aircraft in flight may be connected, by means of connecting equipment furnished by the Telephone Company, to Telephone Company facilities located on the premises of the customer for exchange and message telecommunications in cases of emergency involving the safety of life and property.

**CONNECTING ARRANGEMENTS**

**1. Connection with Recording Reproducing and Automatic Answering and Recording Equipment**

**A. Regulations**

Customer-provided recording, reproducing and automatic answering and recording equipment may be used in connection with the facilities of the Telephone Company subject to the provisions herein except that the Telephone Company, upon request, will furnish the name and address of the customer and/or party responsible for exchange service, as associated with such service in the Telephone Company's files, when such service is used to provide recorded announcements.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES****General Provisions**General

Terminal equipment and communications systems provided by the customer or authorized user may be connected at the customer's premises to dedicated communications services furnished by the Telephone Company where such connections are made in accordance with the provisions set forth in this Section. (C)

The term "telecommunications services" when used in Connection of Terminal Equipment and Communications Systems denotes exchange service, Message Toll Telephone Service and Wide Area Telecommunication Service (WATS).

Responsibility of the Customer

The customer or authorized user 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 equipment services of the Telephone Company, cause electrical hazards to Telephone Company personnel, damage to Telephone Company equipment, malfunction of Telephone Company billing equipment, or degradation of service to persons other than the user of the subject terminal equipment or communications system, his calling or called party. Upon notice from the Telephone 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. (C)

It shall be the responsibility of the customer or authorized user to ensure the continuing compatibility of customer provided equipment with the dedicated communications service furnished by the Telephone Company. (C)

The customer shall be responsible for payment of a Maintenance of Service charge as specified in Part 3.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

Responsibility of the Customer (cont'd)

The customer who provides the Premises Wiring of Communications Systems subject to Part 68 of the Federal Communications Commissions Rules and Regulations pursuant to Section 68.215 of Chapter I of Title 47 of the Code of Federal Regulations shall be responsible for the payment of an Institutional Program for Premises Wiring Charge for activities performed by Telephone Company employees at the customer's premises pursuant to subsections (f), (g) and/or (h) of said Section 68.215, when the premises wiring in question has failed acceptance tests monitored by, or participated in by, the Telephone Company pursuant to Section 68.215, and/or has been revealed to be not in conformance with the information provided in the related affidavit which was provided pursuant to Section 68.215, and/or has resulted in a harm to the network.

When the installation proves satisfactory, no charge will apply.

Institutional Program for Premises Wiring

The Institutional Program for Premises Wiring Charge is comprised of the first, or a combination of both elements described below, as appropriate:

- Element 1 - for the first fifteen minutes, or fraction thereof, of total time spent by Telephone Company employees in related monitoring or participation in acceptance tests and/or in related inspection of customer-provided premises wiring for Communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations, and for administrative expenses including the visit to the customer's premises - /EPC1E/ . . . \$33.00
- Element 2 - for each additional fifteen minutes, or major fraction thereof, of total time spent by Telephone Company employees in performing the related customer-premises activities described in Element 1 preceding - /EPCAE/ . . . \$10.00

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)****General Provisions (cont'd)**Responsibility of the Telephone Company (cont'd)

Dedicated Communications service is 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 dedicated communications service, the responsibility of the Telephone Company shall be limited to the furnishing of service components suitable for dedicated communications service and to the maintenance and operation of service components in a manner proper for such services. Subject to this responsibility the Telephone 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.

The Telephone 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.

The Telephone 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 or authorized user'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 or authorized user will be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service. (C)

Recording of Two-Way Telephone Conversations

Dedicated Communications service is not represented as adapted to the recording of two-way telephone conversations. When customer-provided voice recording equipment is used with a dedicated communications service which is connected to telecommunications services, the provisions relating to Recording of Two-Way Telephone Conversations as set forth in Part 2 of the AT&T Indiana I.U.R.C. Tariff are applicable to such dedicated communications service. (C)

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

Violation of Provisions

When any customer-provided terminal equipment or communications system is used with dedicated communications service in violation of any of the provisions in this Guidebook the Telephone Company will take such immediate action as necessary for the protection of the telecommunications network and Telephone 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 Telephone 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. (T)

**Definitions**

Equipment-To-Equipment Connection

The term "Equipment-to-Equipment Connection" as used in this Section denotes the connection of equipment, which by itself is unregistrable for direct use with the telecommunications network, but is registrable or usable with host terminal equipment or communications systems which in turn may be registered in accordance with Part 68 of the Federal Communications Commissions Rules and Regulations for direct connection to the telecommunications network.

Grandfathered Communications Systems

The term "Grandfathered Communications Systems" as used in this Section denotes communications systems (including their equipment, premises wiring and protective circuitry, if any) connected at the customer's premises, in accordance with any Telephone Company's Tariff, Catalog or Guidebook and that are considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because (a) such systems were connected to the telecommunications network or the dedicated communications services (T)

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)****General Provisions (cont'd)****Definitions (cont'd)**Grandfathered Communications Systems (cont'd)

specified in Connections of Registered Equipment (A) following, prior to January 1, 1980 and were of a type system which was directly connected (i.e., without Telephone Company-provided connecting arrangements) to the telecommunications network or the dedicated communications services Connections of Registered Equipment (A) following as of June 1, 1978, or (b) such systems are connected to the dedicated communications services specified in Connections of Registered Equipment (B and C) following prior to May 1, 1983 and are of a type system which was directly connected (i.e., without Telephone Company-provided connecting arrangements) to the dedicated communications services specified in Connections of Registered Equipment (B or C) following as of April 30, 1980.

Grandfathered Connections of Communications Systems

The term "Grandfathered Connections of Communications Systems" as used in this Section denotes connections via Telephone Company-provided connecting arrangements of communications systems (including their equipment, and premises wiring) at the customer's premises, in accordance with any Telephone Company's Tariffs, Catalog or Guidebook and that are considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because (a) such connections to the telecommunications network or the dedicated communications services specified in Connections of Registered Equipment (A) following, were made via Telephone Company-provided connecting arrangements prior to January 1, 1980 and such connecting arrangements are a type of connecting arrangement connected to the telecommunications network or the dedicated communications services specified in Connections of Registered Equipment (A) following as of June 1, 1978, or (b) such connections to the dedicated communications services specified in Connections of Registered Equipment (B and C) following are made via Telephone Company-provided connecting arrangements prior to May 1, 1983 and such connecting arrangements are of a type of connecting arrangement connected to the dedicated communications services specified in Connections of Registered Equipment (B or C) following as of April 30, 1980.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

**Definitions (cont'd)**

Grandfathered Terminal Equipment

The term "Grandfathered Terminal Equipment" as used in this Section denotes terminal equipment (including protective circuitry if any) connected at the customer's premises, in accordance with any Telephone Company's Tariffs, Catalog or Guidebook and that is considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because, (a) such terminal equipment was connected to the telecommunications network or the dedicated communications services specified in Connections of Registered Equipment (A) following prior to July 1, 1979 and was of a type of terminal equipment which was directly connected (i.e., without Telephone Company-provided connecting arrangements) to the telecommunications network or the dedicated communications services specified in Connections of Registered Equipment (A) following as of October 17, 1977, or (b) such terminal equipment is connected to the private line services specified in Connections of Registered Equipment (B and C) following prior to May 1, 1983 and is of a type of terminal equipment which was directly connected (i.e., without Telephone Company-provided connecting arrangements) to the dedicated communications services specified in Connections of Registered Equipment (B or C) following as of April 30, 1980. (T)

Grandfathered Connections of Terminal Equipment

The term "Grandfathered Connections of Terminal Equipment" as used in this Section denotes connections via Telephone Company-provided connecting arrangements of terminal equipment connected at the customer's premises, in accordance with any Telephone Company's Tariffs, Catalog or Guidebook and that are considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because, (a) such connections to the telecommunications network or the dedicated communications services specified in Connections of Registered Equipment (A) following were made via Telephone Company-provided connecting arrangements prior to July 1, 1979 and such connecting arrangements are of a type of connecting arrangement connected to the telecommunications network or the dedicated communications services specified in Connections of Registered Equipment (A) following as of October 17, 1977, or (b) such (T)

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

**Definitions (cont'd)**

Grandfathered Connections of Terminal Equipment (cont'd)

connections to the dedicated communications services specified in Connections of Registered Equipment (B or C) following are made via Telephone Company-provided connecting arrangements prior to May 1, 1983 and such connecting arrangements are of a type of connecting arrangement connected to the dedicated communications services specified in Connections of Registered Equipment (B or C) following as of April 30, 1980.

Registered

The term "Registered" as used in this Section denotes equipment which complies with and has been approved within the Registration provisions of Part 68 of the Federal Communications Commission's Rules and Regulations.

Connections of Registered Equipment

Registered terminal equipment, protective circuitry and communications systems that are registered may be connected to those dedicated communications services specified in the following paragraphs subject to General Provisions preceding, these paragraphs (A-C) and Section 13.

- A. The connection may be made only at the customer's premises to Series 2000 or 3000 dedicated communications services that present a two wire or four wire loop signaling interface for such connection under the following conditions:

Registered terminal equipment, registered protective circuitry, and registered key telephone systems may be connected to the station end of dedicated communications services furnished in connection with off-premises stations.

Registered PBX Systems may be connected, as a trunk termination, to the station end of dedicated communications services furnished in connection with off-premises stations.

A Foreign Exchange channel (TYPE 2006) may be utilized with registered terminal equipment, registered protective circuitry and registered communications systems which are connected to the exchange telephone service associated with such channels.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

Connections of Registered Equipment (cont'd)

- B. The connection of registered terminal equipment and registered PBX systems may be made only at the customer's premises to Series 2000 or 3000 dedicated communications service that present an interface for either 2 or 4 wire transmission, with separate E and M signaling leads conventionally known as Type I (battery/ground) or Type II (contract closure type). Such E and M signaling leads are those terminal equipment or PBX leads (other than voice or data communications leads) used for the purpose of transferring supervisory or address signals across the interface.
- C. The connection of registered terminal equipment and registered PBX systems may be made only at the customer's premises to a dedicated communications service furnished to provide indications of message registration of outgoing calls or automatic identification of outward dialing (AIOD) to such customer-provided equipment or systems.
  - In addition, customers who intend to install, perform additions to, or make rearrangements of AIOD functions shall give advance notice to the Telephone 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.

Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems

A. Direct Connections

- 1. Grandfathered terminal equipment and grandfathered communications systems, directly connected to the dedicated communications services specified in Connections of Registered Equipment (A) preceding are subject to the provisions of this paragraph. The minimum protection criteria set forth in Minimum Protection Criteria for Electrical Connections following apply to such connections.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)

A. Direct Connections (Cont'd)

2. Grandfathered terminal equipment and grandfathered communications systems, directly connected to the dedicated communications services specified in Connections of Registered Equipment (B and C) 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:

All such connections shall comply with the minimum protection criteria set forth in Minimum Protection Criteria for Electrical Connections following.

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

3. Until May 1, 1983, new installations of terminal equipment or communications systems which have been grandfathered may be connected for use with the dedicated communications services specified in Connections of Registered Equipment (B or C), subject to the following:
  - a. the customer shall notify the Telephone Company when such equipment or systems are to be connected and shall notify the Telephone 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;
  - b. all such connections are made through Telephone Company-provided standard jacks or are otherwise connected to the Telephone Company;
  - c. all such connections shall comply with the minimum protection criteria set forth in Minimum Protection Criteria for Electrical Connections following;

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)

A. Direct Connections (cont'd)

3. (cont'd)

- d. premises wiring associated with communications systems shall conform to Part 68 of the Federal Communications Commission's Rules and Regulations;
  - e. no changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.
4. Additions to grandfathered terminal equipment or grandfathered communications systems specified in A.2 and A.3 preceding may be made, subject to A.3 a. through e. preceding and to the following:
- a. until May 1, 1983, where the equipment being added is of a type which has been grandfathered, and
  - b. after May 1, 1983, where the equipment being added is grandfathered.
  - c. additions of registered equipment is subject to Connections of Registered Equipment preceding.
5. Systems connected pursuant to A.2 through A.4 preceding may remain connected and be moved and reconnected, in accordance with A.3. 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.
6. Customer-provided terminal equipment and customer-provided communications systems connected via customer-provided grandfathered protective circuitry are subject to the provisions of A.1 through A.5 preceding.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)

**B. Connections Through Connecting Arrangements Provided by the Telephone Company**

1. Grandfathered connections of terminal equipment and grandfathered connections of communications systems to the dedicated communications services specified in Connections of Registered Equipment (A) preceding are subject to these provisions in (B). Such connections are subject to the minimum protection criteria set forth in Minimum Protection Criteria for Electrical Connections following.
2. Grandfathered connections of terminal equipment and grandfathered connections of communications systems to the dedicated communications services specified in Connections of Registered Equipment (B and C) preceding are subject to the following:
  - a. After May 1, 1983, Telephone 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 dedicated communications services specified connections of Registered Equipment (B or C) preceding through connecting arrangements prior to May 1, 1983.
  - b. Grandfathered connections of terminal equipment and grandfathered connections of communications systems made in accordance with a. 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 Telephone Company subject to their availability, at the prices specified in Section 3.
  - c. Network control signaling shall be performed by the connecting equipment furnished, installed and maintained by the Telephone Company, except that customer-provided tone-type address signaling is permissible through the Telephone Company-provided connecting arrangement.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (cont'd)

- B. Connections Through Connecting Arrangements Provided by the Telephone Company (Cont'd)
- d. The connections specified in a. through c. preceding must comply with the minimum protection criteria specified in Minimum Protection Criteria for Electrical Connections following.

Connections of Terminal Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program

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

- Channels for Remote Metering, Supervisory Control and Miscellaneous Signaling Purposes (Series 1000)
- Channels for Data Transmission - (Series 1000)
- Channels for Program Transmission in Connection with Loud Speakers and Sound Recordings (Series 6000)
- Channels for Remote Operation and Control of Radio Stations (Type 2002)

Except as otherwise provided in Connections of Registered Equipment and Connections of Grandfathered Terminal Equipment and Grandfathered Communication Systems preceding, terminal equipment and communications systems may be electrically connected to dedicated communications services in accordance with these paragraphs.

- a. When the terminal equipment or communications system is connected with dedicated communications service furnished by the Telephone Company and such dedicated communications service is not arranged for connection to telecommunications services, such connections shall be made to an interface provided by the Telephone Company.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

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

- b. When the terminal equipment or communications system is connected with dedicated communications service furnished by the Telephone Company and such dedicated communications service is arranged for connection to telecommunications services:
  - (i) such connections shall be made through a connecting arrangement as provided in these paragraphs and
  - (ii) the connection shall be such that the functions of network control signaling (except customer-provided tone type address signaling through a Telephone Company-provided connecting arrangement) are performed by equipment furnished by the Telephone Company.
- c. Terminal equipment or communications systems connected pursuant to a. or b. preceding must comply with the minimum protection criteria specified in Minimum Protection Criteria for Electrical Connections following.

Minimum Protection Criteria for Electrical Connections

Since dedicated communications services utilize Telephone 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 Telephone Company dedicated communications 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 Telephone Company for each application to be consistent with the signal power allowed on the telecommunications network.

To protect other services, it is necessary that the signal which is applied by the equipment to the Telephone Company interface located on the customer's premises meet the following limits:

- a. The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18dB below the power of the signal as specified in the previous paragraph.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)****General Provisions (cont'd)**Minimum Protection Criteria for Electrical Connections (cont'd)

- b. The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16B below one milliwatt.
- c. The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24dB below one milliwatt.
- d. The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36dB below one milliwatt.
- e. The power in the band above 40,000 Hertz shall not exceed 50dB below one milliwatt.

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 equipment to the Telephone Company-provided voice transmitting and receiving equipment located on the customer's or authorized user's premises be limited so that the signal at the output of the Telephone Company-provided voice transmitting and receiving equipment shall at no time have energy solely in 2450 to 2750 Hertz band. If there is signal power at the output of the 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. (C)

Channel Derivation Devices

Channel derivation devices which are used to create additional channels in accordance with Creation of Additional Channels preceding, may be connected to dedicated communications service subject to the General Provisions, Connections of Registered Equipment and Connections of Grandfathered Terminal Equipment and Grandfathered Communication Systems preceding.

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**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

Equipment-To-Equipment Connections

Equipment-to-equipment connections, as defined in General Provisions preceding, will only be permitted when:

- A. The supplier of the added equipment ensures compliance of the combined host and added equipment, including wiring, with Part 68 of the Federal Communications Commission's Rules and Regulations and this Guidebook. (T)

Connection of the added equipment to the host is made through a Telephone Company-provided interface which:

- a. Provides all points of connection between the added equipment and wiring internal to host equipment housings.
- b. Permits reasonable trouble isolation, as determined by the Telephone Company.
- c. Is otherwise acceptable to the Telephone Company for the specific connection to be accomplished.

Such permission does not necessitate disclosure, by the Telephone Company, of information which is proprietary in nature.

The customer subscribing to the host notifies the Telephone 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 Telephone Company when such added equipment is permanently disconnected.

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

Facilities of an electric power company, an 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 in Connections of Grandfathered Terminal Equipment and Grandfathered Communication Systems preceding, be connected with services furnished by the Telephone Company to the same customer, subject to the following:

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

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

- A. Such connections will be made by means of switching or connecting equipment furnished by the Telephone Company.
- B. Such customer telephone facilities will be connected to dedicated communications services furnished by the Telephone Company for voice transmission and utilizing a voice grade channel when furnished to the same customer, for communications with stations associated with such services; provided, however, that facilities of the customer will not be connected to a local or toll central office line to form a through connection except as follows:
  - 1. in cases of emergency involving safety of life or property;
  - 2. in cases of calls originated by railroad employees under circumstances indicating need for prompt action to secure or maintain the safety, continuity, or reliability of railroad service to the public, and related to the movement of passengers, mail, property, or equipment by railroad, or the repair, maintenance, or construction of railroad rights-of-way, structures, or equipment;
  - 3. in cases where the customer facilities serve locations where it is impracticable because of hazard or inaccessibility for the Telephone Company to furnish its facilities; and
  - 4. during an interim period in cases where the customer has arranged for replacement of said customer facilities of the Telephone Company.
- 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 PBX equipment furnished to the customer by the Telephone Company. Such equipment or position may be located at either or both ends of the customer's circuit.
- D. Connection of a telephone circuit of such companies as specified in B.2. through B.4. preceding may be established at either end of such circuit, but shall not be established at both ends simultaneously.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

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

- E. Customer teletypewriter or Morse, telephotograph, data transmission, remote metering, supervisory control or miscellaneous signaling facilities will be connected to dedicated communications service furnished by the Telephone Company for such purposes to the same customer.
  
- F. Telephone Company-provided dedicated communications 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 Telephone Company to, other companies which:
  - 1. 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
  - 2. own or operate an electric power or pipe line or railroad system jointly with the customer; or
  - 3. own or operate electric power or pipe line or railroad facilities inter-connected with those of the customer.

Telephone company-provided dedicated communications 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 F.1. through F.3 preceding, including calls originated by employees of such companies only under the circumstances set forth in B.1. and B.2. preceding.

- G. Terminal equipment and communications systems connected to the dedicated communications services specified in Connections of Registered Equipment (A) preceding 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 dedicated communications services must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

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

- H. Effective May 1, 1983, new installations of or additions to terminal equipment and communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations, connected to the dedicated communications services specified in Connections of Registered Equipment (B or C) preceding in accordance with A through F preceding, must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.

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

Facilities of the U.S. Department of the Army, Navy, or Air Force will be connected with services furnished by the Telephone Company, in lieu of the provisions of Connections of Grandfathered Terminal Equipment and Grand-fathered Communications Systems preceding, as provided in A and B following, where the Secretary of the appropriate Department or his authorized representative notifies the Telephone Company in writing that such connection is required for reasons of military necessity. Such connections will be made by means of switching or connecting equipment furnished by the Telephone Company.

- A. Telephone facilities of the aforesaid Departments will be connected to dedicated communications services furnished by the Telephone Company for voice transmission and utilizing a voice grade channel for communications with stations associated with such services; provided, however, that such Department facilities will not be connected to a local or toll central office line to form a through connection except in cases of emergency involving safety of life or property, unless such facilities are provided in locations where it is impracticable for the Telephone Company to furnish its service.
- B. Teletypewriter or Morse, telephotograph, data transmission, remote metering, supervisory control or miscellaneous signaling facilities of the aforesaid Departments will be connected to dedicated communications services furnished for such purposes.

**CONNECTION OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS TO DEDICATED COMMUNICATIONS SERVICES (cont'd)**

**General Provisions (cont'd)**

Connections of Certain Facilities of the U.S. Army, Navy and Air Force (cont'd)

- C. Terminal equipment and communications systems connected to the dedicated communications services specified in Connections of Registered Equipment (A) preceding in accordance with A. and B. 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 terminal equipment or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations connected to such dedicated communications services must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.
  
- D. Effective May 1, 1983, new installations of or additions to terminal equipment and communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations, connected to the dedicated communications services specified in Connections of Registered Equipment (B or C) preceding in accordance with A and B preceding, must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.

**CONNECTION OF TERMINAL EQUIPMENT, DERIVATION EQUIPMENT AND COMMUNICATIONS SYSTEMS TO OPTINET SERVICES**

**General Provisions**

A. General

All connections as provided for in B. following shall be through equipment furnished by the customer or authorized user. The responsibility of the Telephone 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 OPTINET Services such equipment or facilities are operating properly, and further that the cause of any service difficulty reported by the customer or authorized user to the Telephone Company results from the operation of equipment and facilities provided by the Telephone Company.

The customer shall be responsible for payment of a Maintenance of Service Charge as specified in Part 3.

The responsibilities of the customer and the responsibilities of the Telephone Company are further set forth in paragraphs D. and E. following.

B. Connection of Terminal Equipment, Derivation Equipment and Communications Systems

1. Terminal equipment, and communications systems may be connected at the premises of the customer or authorized user to OPTINET Services subject to the following: no service will be provided to the premises of a customer where the sole purpose of the service, including any bit streams derived there from, is to effect direct connection for through transmission with communications channels of any customer, except that service may be provided to the premises of a customer for connection of service provided to a Composite Data Service Vendor for the provision of Composite Data Service.

All arrangements concerning the connection of a customer-provided communications system with OPTINET Services shall be made by the customer. The furnishing of the OPTINET Services by the Telephone Company is not part of a joint undertaking with the provider of the customer-provided communications system.

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**CONNECTION OF TERMINAL EQUIPMENT, DERIVATION EQUIPMENT AND COMMUNICATIONS SYSTEMS TO OPTINET SERVICES (cont'd)**

**General Provisions (cont'd)**

B. Connection of Terminal Equipment, Derivation Equipment and Communications Systems (cont'd)

2. The customer or authorized user, by use of its own derivation equipment, may create digital bit streams from OPTINET Services and such equipment may be connected for transmission of such bit streams (1) at the premises of the customer or authorized user to Dedicated Communications Service and OPTINET Services furnished under the prices in this Guidebook and respectively (2) at the premises of the customer to exchange or long distance telecommunications service or WATS access lines. Such connections are subject to the provisions set forth elsewhere in this Guidebook (3) at the premises of the customer or authorized user to facilities of others referred to in A. preceding. (T)

C. Accessories

Accessories provided by customers or authorized users may be used in conjunction with OPTINET Services provided that such accessories comply with the provisions of D. following.

D. Responsibility of the Customer

Where OPTINET Services are available under this Guidebook for use in connection with terminal equipment or communications systems the operating characteristics of such equipment or systems shall be such as not to interfere with any of the services offered by the Telephone Company. Such use is subject to the further provisions that the equipment provided by a customer or authorized user does not endanger the safety of Telephone Company employees or the public; damage, require change in or alteration of the equipment or other facilities of the Telephone Company; interfere with the proper functioning of such equipment or facilities; impair the operation of the Telephone Company's facilities or otherwise injure the public in its use of the Telephone Company services. Upon notice from the Telephone Company that the equipment provided by a customer or authorized user is causing or is likely to cause such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference. (T)

**CONNECTION OF TERMINAL EQUIPMENT, DERIVATION EQUIPMENT AND COMMUNICATIONS SYSTEMS TO OPTINET SERVICES (cont'd)**

**General Provisions (cont'd)**

D. Responsibility of the Customer (cont'd)

Where a customer elects to connect a communications system to OPTINET Services the customer shall be responsible for:

- compatibility of the connected communications system and the OPTINET Services.
- testing and sectionalization and clearance of trouble conditions or service difficulties on any communications system which is connected to OPTINET Services.

The consent of the customer must be obtained by the authorized user prior to the connection of authorized user provided terminal equipment or communications system to an OPTINET Service provided to the customer.

E. Responsibility of the Telephone Company

The Telephone Company shall not be responsible for installation, operation or maintenance of any terminal equipment or communications systems.

OPTINET Services are not represented as adapted to the use of such equipment or system and where such equipment or system is connected to Telephone Company facilities the responsibility of the Telephone Company shall be limited to the furnishing of facilities suitable for OPTINET Services and to the maintenance and operation of such facilities in a manner proper for such service. Subject to this responsibility the Telephone Company shall not be responsible for (1) the through transmission of signals generated by such equipment or system, or for the quality of, or defects in, such transmission or (2) the reception of signals by such equipment or systems.

The Telephone Company shall not be responsible to the customer or authorized user, if changes in any of the facilities, operations, or procedures of the Telephone Company utilized in the provision of OPTINET Services render any facilities provided by a customer or authorized user obsolete or require modification or alteration of such equipment or system or otherwise affect its use or performance.

**CONNECTION OF TERMINAL EQUIPMENT, DERIVATION EQUIPMENT AND COMMUNICATIONS SYSTEMS TO OPTINET SERVICES (cont'd)**

**General Provisions (cont'd)**

E. Responsibility of the Telephone Company (cont'd)

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

F. Violation of Provisions

Where any terminal equipment or communications system is used with services furnished by the Telephone Company and any of the provisions in Connections are violated the Telephone Company will take such immediate action as necessary for the protection of its facilities, and will promptly notify the customer of the violation. The customer shall take steps as are necessary to discontinue such use of the equipment or 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 Telephone 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.

(T)

**CONNECTIONS OF SERVICES FURNISHED BY THE TELEPHONE COMPANY WITH SERVICES OF OTHER COMMON CARRIERS**

Except as provided in D following, a communications system (analog not exceeding voice grade, or digital) provided by an Other Common Carrier to a customer or authorized user of dedicated communications services furnished by the Telephone Company may be connected at the premises of the customer or authorized user to the channels of a dedicated communications service furnished by the Telephone Company where the customer or authorized user has a regular and continuing requirement for the origination or termination of communications over the Other Common Carrier-provided communications system provided that: (C)

- A. The normal mode of operation of the Other Common Carrier-provided communications system shall be to provide communications originating or terminating at the premises at which the connection is made (C)
- B. The dedicated communications service furnished by the Telephone Company shall be voice grade. (C)
- C. Where the connection of an Other Common Carrier-provided communications system is by means of a direct electrical connection, such connection shall be made: (C)
  - 1. through switching equipment provided either by the customer, authorized user, the Company or the Other Common Carrier; or (C)
  - 2. through a channel derivation device provided either by the customer or authorized user or the Other Common Carrier. (C)

Where such connection is made through a channel derivation device as specified in C.2. preceding, the "regular and continuing requirement for the origination or termination of communications" provision above and the provision of A. preceding are not applicable.

- D. When the connection is by means of switching equipment provided by the customer or authorized user, the regulations applicable to the connection of communications systems as set forth in Connections of Terminal Equipment and Communications Systems not subject to the Federal Communications Commission's Registration Program preceding shall apply to the switching equipment and the facilities provided by the Other Common Carrier. (C)

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**CONNECTIONS OF SERVICES FURNISHED BY THE TELEPHONE COMPANY WITH SERVICES OF OTHER COMMON CARRIERS (cont'd)**

## D. (cont'd)

When the connection is by means of a channel derivation device provided by the customer or authorized user, such channel derivation device and the facilities provided by the Other Common Carrier shall be treated as a customer-provided communications system and the regulations applicable to the connection of customer-provided communications systems as set forth in Connection of Terminal Equipment and Communications Systems shall apply. (C)  
(C)

E. Where the connection of an Other Common Carrier-provided communication system is by means of an acoustic or inductive connection, such connection shall be made externally to Telephone Company-provided voice transmitting and receiving equipment.

F. Where the customer of such Other Common Carrier is an authorized user of a dedicated communications service furnished by the Telephone Company and such connection is made at the authorized user's premises, all communications over the interconnected facilities shall be between the authorized user and the Telephone Company's customer and be related directly to the Telephone Company's customer's business.

G. Connections shall be made only if the forms of electrical communication are the same and consistent with those for which the Telephone Company-provided channel is offered. Connections are not represented as being suitable for satisfactory transmission.

H. Other Common Carrier-provided systems may be connected at the customer's or authorized user's premises to station apparatus provided by the Telephone Company to the same customer or to a local or toll central office line or WATS access line through such station apparatus. (C)  
(C)

**CONNECTIONS OF SERVICES FURNISHED BY THE TELEPHONE COMPANY WITH SERVICES OF OTHER COMMON CARRIERS (cont'd)**

- I. The charges for equipment and service provided by the Telephone Company shall be the same as those that would apply if the Telephone Company services and channels were so connected. The charges to the customer are in addition to the charges made by the Other Common Carrier for the services and channels which it provides.

All arrangements concerning Other Common Carrier services shall be made by the customer with that carrier. The furnishing of dedicated communications services by the Telephone Company is not part of a joint undertaking with the Other Common Carrier.

Conditions for Connections of Other Common Carrier Communications Systems at the Premises of the Telephone Company.

Communications System (utilizing Central Office Connecting Facilities), not exceeding voice grade, provided by an Other Common Carrier (excluding International Record Carriers), to a customer may be connected at the premises of the Telephone Company with dedicated communications service provided by the Telephone Company to the same customer, provided the connection is made through Centrex Control Switching Equipment furnished in accordance with Centrex Service.