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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

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## **A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS**

### **A15.1 Terms and Conditions**

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#### **A15.1.1 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 Company where such connections are made in accordance with the provisions of section A15. Telecommunications services as used herein include exchange service, Long Distance Message Telecommunications Service (LDMTS) and Wide Area Telecommunications Service (WATS).

##### **B. Responsibility of the Customer**

1. The customer shall be responsible for the installation, operation and maintenance of any terminal equipment or communications system. No combination of terminal equipment or communications systems shall require change in or alteration of the equipment or services of the Company, cause electrical hazards to Company personnel, damage to Company equipment, malfunction of Company billing equipment, or degradation of service to persons other than the user of the subject terminal equipment or communications system, his calling or called party. Upon notice from the Company that the 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 Dispatch Charge – Trouble Determination (TLCPR) specified for Basic Residence and Basic Business services for visits by a Company employee to the customer's premises solely to determine that the service difficulty or trouble report results from the use of terminal equipment or communications system.

##### **C. Responsibility of The Company**

1. Telecommunications services are not represented as adapted to the use of terminal equipment or communications systems. Where terminal equipment or communications systems are used with telecommunications services, the Company will only be responsible for furnishing service components suitable for telecommunications services and to design, maintain and operate those service components accordingly. Subject to that responsibility, the Company will not be responsible for (1) the quality or the through transmission of signals generated by the terminal equipment or communications system, or (2) the reception of signals by terminal equipment or communications systems, or (3) address signaling performed by terminal signaling equipment.
2. The Company will, at the customer's request, provide information concerning interface parameters, including the number of ringers which may be connected to a particular telephone line, needed to permit the terminal equipment to operate in a manner compatible with telecommunications services.
3. The Company may make changes in its telecommunications services, equipment, operations or procedures, where such action is consistent with Part 68 of the Federal Communications Commission's Rules and Regulations. If such changes can be reasonably expected to render any terminal equipment or communications system incompatible with telecommunications services, or require modification or alteration of such 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.

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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.1 Terms and Conditions (Cont'd)

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#### A15.1.1 General Provisions (Cont'd)

##### D. Recording of Two-Way Telephone Conversations

Telecommunications services furnished by the Company are not represented as adapted to the recording of two-way telephone conversations. However, when customer-provided voice recording equipment is directly, acoustically or inductively connected with telecommunications services, the customer-provided voice recording equipment shall be so arranged that at the will of the user it can be activated or deactivated. In addition, one of the following conditions must apply.

1. All parties to the telephone conversation must give their prior consent to the recording of the conversation, and the prior consent must be obtained in writing or be part of, and obtained at the start of the recording, or
2. A distinctive recorder tone that is repeated at intervals of approximately fifteen seconds is required to alert all parties when recording equipment is in use.
3. Requirements for the conditions as specified in D.1. or D.2. preceding are not required:
  - a. When used by a Federal Communications Commission licensed broadcast station customer for recording of two-way telephone conversations solely for broadcast over the air.
  - 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.
  - c. When used by a broadcast network or by a cooperative programming effort composed exclusively of Federal Communications Commission broadcast licensees to record two-way telephone conversations solely for broadcast over the air by a licensed broadcast station.
  - d. 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.
  - e. When used for incoming calls made to telephone numbers publicized for emergencies (such as, but not limited to, fire, health care, and police) and outgoing calls made in immediate response.
  - f. 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.
  - g. When used by an automatic telephone answering service known by the general public to record telephone messages for its subscribers.
  - h. When used for the recording of calls made for patently unlawful purposes, such as bomb threats, kidnap ransom requests, and obscene telephone calls and outgoing calls made in immediate response.
  - i. When used by federal, state or local law enforcement authorities acting under color of law.

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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.1 Terms and Conditions (Cont'd)

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#### A15.1.1 General Provisions (Cont'd)

##### E. Violation of *Terms and Conditions*

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When any terminal equipment or communications system is used with telecommunications services in violation of any of the provisions in this section A15., the Company will take such immediate action as necessary for the protection of the telecommunications network and Company employees, and will promptly notify the Customer of the violation. The customer shall discontinue such use of the terminal equipment or communications system or correct the violation and shall confirm in writing to the Company within 10 days, following the receipt of written notice from the Company, that such use has ceased or that the violation has been corrected. Failure of the customer to discontinue such use or to correct the violation and to give the required written confirmation to the Company within the time stated above shall result in suspension of the customer's service until such time as the Customer complies with the provisions of this *Guidebook*.

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##### F. Definitions

###### 1. Test Equipment

The term "Test Equipment" as used in A15, denotes test equipment located at the premises of the Customer that is used by the Customer for the detection and/or isolation of a communications service fault.

###### 2. Grandfathered Communications Systems

The term "Grandfathered Communications Systems" as used in this section A15. 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.

###### 3. Grandfathered Connections of Communications Systems

The term "Grandfathered Connections of Communications Systems" as used in this section A15. denotes connections via 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, 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 Company- provided connecting arrangements prior to January 1, 1980 and such connecting arrangements are of a type of connecting arrangement connected to the telecommunications network as of June 1, 1978.

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**A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS****A15.1 Terms and Conditions (Cont'd)**

(T)

**A15.1.1 General Provisions (Cont'd)****F. Definitions (Cont'd)**

## 4. Grandfathered Terminal Equipment)

The term "Grandfathered Terminal Equipment" as used in this section A15. 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 Company-provided connecting arrangements) to the telecommunications network as of October 17, 1977.

## 5. Grandfathered Connections of Terminal Equipment

The term "Grandfathered Connections of Terminal Equipment" as used in this section A15. denotes connections via 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 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.

## 6. Registered Equipment

The term "Registered Equipment" as used in this section A15. denotes equipment which complies and has been approved within the Registration provisions of Part 68 of the Federal Communications Commission's Rules and Regulations.

## 7. Equipment-to-Equipment Connection

The term "Equipment-to-Equipment Connection", as used in A15, denotes the connection of add-on or substitute equipment to host terminal equipment or communications systems. These connections are not within the scope of the Federal Communication Commission's Registration Program. The resulting combination of host and add-on or substitute equipment may be registered and must comply with Part 68 of the Federal Communications Commission Rules and Regulations in order to be directly connected to the telecommunications network.

**G. Provision of Equipment**

Any equipment offered herein which has grandfathered status under the Federal Communications Commission's Registration Program is offered and provided only to the extent of available stock.

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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.1 Terms and Conditions (Cont'd)

(T)

#### A15.1.1 General Provisions (Cont'd)

##### H. Connection of terminal equipment

Connection of terminal equipment shall not require any change or alteration in Company-provided equipment or services, unless that change or alteration is specifically permitted under the provisions of A15.1.6.

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#### A15.1.2 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, A15.1 preceding and the following:

1. All combinations of registered equipment and associated non-registered terminal equipment (including but not limited to wiring) shall be installed, operated and maintained so that the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are continually satisfied.  
The Company may discontinue service or impose other remedies as provided for in Part 68 of the Federal Communications Commission's Rules and Regulations for failure to comply with these provisions.
2. The customer shall notify the Company of each line to which registered equipment is to be connected in advance of such connection and shall notify the Company when such registered equipment is permanently disconnected. The customer shall provide the Company the Registration Number and Ringer Equivalence Number for the registered equipment. The customer shall also provide, when appropriate, the off-premises station port signaling capability of a PBX system.
3. The customer shall not connect registered equipment to a 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 Company, or
  - b. The ringer is not a ringer type designated by the 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 Company shall be made through standard jacks; or, in the case of registered communications systems, through standard jacks wired in other than a standard manner, when such nonstandard wiring of the jack is agreed to by the Company.
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.

Registered equipment which is in hazardous or inaccessible locations may, in lieu of 4. preceding, be connected in accordance with A15.1.12 following.

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## **A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS**

### **A15.1 Terms and Conditions (Cont'd)**

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#### **A15.1.2 Connections of Registered Equipment (Cont'd)**

- A.** Registered Terminal Equipment, Registered Protective Circuitry and Registered Communications Systems (Cont'd)
6. 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.
  7. The connection of registered terminal equipment and registered PBX systems may be made only at the customer's premises to a Series 2100 or 2000 private line service that presents an interface for either two or four wire transmission, with separate E and M signaling leads conventionally known as Type I (battery/ground) or Type II (contact closure 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.
  8. A Type 2006 channel 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.
- 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:
      - (1) No greater than 25 feet in length (measured linearly between the point 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.
      - (2) A cord which complies with (1) 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.
      - (3) 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.
      - (4) 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.



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## **A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS**

### **A15.1 Terms and Conditions (Cont'd)**

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#### **A15.1.2 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 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 Company may invoke extraordinary procedures specified in Part 68 of the Federal Communications Commission's Rules and Regulations where one or more of the following conditions are present:
  - a. Advance notice information provided in accordance with A15.1.2.B.2 preceding gives 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.
  - d. In addition, the Company may monitor or participate in acceptance testing for imbalance, or may inspect other than Fully-Protected Premises Wiring installations as set forth in Part 68 of the Federal Communications Commission's Rules and Regulations.

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

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**A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS****A15.1 Terms and Conditions (Cont'd)**

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(M)

**A15.1.3 Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems****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:

- a. The customer shall notify the Company when such grandfathered terminal equipment is to be connected and shall notify the Company when such grandfathered terminal equipment is to be permanently disconnected; such notification shall include a description of the equipment including the manufacturer's name, model number, and type of equipment;
- b. All such connections are made through standard jacks; and
- c. All such connections shall comply with the minimum protection criteria set forth in A15.1.3.C. following.

**2. Grandfathered Communications Systems**

a. 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:

- (1) The customer shall notify the Company when such communications systems are to be connected and shall notify the Company when such communications systems are to be permanently disconnected; such notification shall include a description of the equipment including the manufacturer's name, model number, and type of equipment;
- (2) All such connections are made through standard jacks;

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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.1 Terms and Conditions (Cont'd) (T)

#### A15.1.3 Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (Cont'd)

A. Direct Connections (Cont'd)

2. Grandfathered Communications Systems (Cont'd)

a. (Cont'd)

- (3) All such connections shall comply with the minimum protection criteria set forth in A15.1.3.C. following;
- (4) Premises wiring shall conform to Part 68 of the Federal Communications Commission's Rules and Regulations;
- (5) No changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer;
- (6) Additions to grandfathered communications systems may be made without registration of any additional equipment involved if:

Equipment so added is being reconnected, i.e., was previously directly connected prior to January 1, 1980, in accordance with Company *Guidebooks*; and (T)

Such additions comply with the provisions of 2. (1) through (5) preceding.

- (7) Additions of registered equipment to grandfathered communications systems are subject to A15.1.2. preceding.

b. Until January 1, 1980, new installations of communications systems of a type which have been grandfathered may be connected to the telecommunications network, subject to the following:

- (1) Premises wiring shall conform to Part 68 of the Federal Communications Commission's Rules and Regulations;
- (2) The customer shall notify the Company when such communications systems are to be connected and shall notify the Company when such communications systems are to be permanently disconnected: such notification shall include a description of the equipment including the manufacturer's name, model number, and type of equipment;
- (3) All such connections are made through standard jacks;
- (4) All such connections shall comply with the minimum protection criteria set forth in A15.1.3.C. following; and,
- (5) No changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.

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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.1 Terms and Conditions (Cont'd)

(T)

#### A15.1.3 Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (Cont'd)

##### A. Direct Connections (Cont'd)

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

##### B. Connections Through Connecting Arrangements Provided by the Company

###### 1. General

###### a. Basis of Connection

- (1) Grandfathered connections of terminal equipment and grandfathered connections of communications systems made in accordance with A15.1.3.B.2 and 3. following 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 Company subject to their availability as specified in A15.2. and 3. following.
- (2) Communications systems which are not subject to Part 68 of the Federal Communications Commission's Rules and Regulations may be connected in accordance with A15.1.7 following. Company-provided connecting arrangements are furnished for the connection of such systems as specified in A15.2 and 3. following.
- (3) Terminal equipment may be connected in accordance with A15.1.8 following to services of the Company specifically exempted from the Federal Communications Commission's Registration Program. Company-provided connecting arrangements are furnished for the connection of such equipment as specified in A15.2 and 3. following.
- (4) 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.

###### b. Network Control Signaling

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

- (1) Tone-type address signaling is permissible through a Company-provided connecting arrangement. When the customer has the capability to originate calls by means of such instruments and special central office facilities exist, the rates and charges for Touch-Tone® Calling Service specified in A13.2.3 apply.

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**A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS****A15.1 Terms and Conditions (Cont'd)**

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**A15.1.3 Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (Cont'd)****B. Connections Through Connecting Arrangements Provided by the Company (Cont'd)**

1. General (Cont'd)
  - b. Network Control Signaling (Cont'd)
    - (2) Signaling functions may be performed by Conforming Answering Devices.
2. Grandfathered Connections of Terminal Equipment

- a. Data Terminal Equipment

Subject to the provisions of 1.a.(1) and (3) 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 Company in accordance with the following:

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

Conditioning the data signals generated by the terminal equipment to signals suitable for transmission by means of Company services, and

Conditioning signals transmitted by means of Company services to data signals suitable for reception by the terminal equipment.

- (2) The data terminal equipment must comply with the minimum protection criteria specified in A15.1.3.C. following.
- (3) 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.

- b. Voice Terminal Equipment

Subject to the provisions of 1.a.(1) and (3) preceding, voice terminal equipment may be connected at the customer's premises to the telecommunications network in accordance with the following:

- (1) The connection shall be made through a network control signaling unit and a connecting arrangement furnished by the Company. In accordance with D. following, a connecting arrangement is not required for the connection of Attested Equipment or Conforming Answering Devices.
- (2) 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.

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**A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS****A15.1 Terms and Conditions (Cont'd)**

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**A15.1.3 Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (Cont'd)****B. Connections Through Connecting Arrangements Provided by the Company (Cont'd)**

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

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

3. Grandfathered Connections of Communications Systems

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

- a. 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.
- b. The connection shall be through a network control signaling unit and connecting arrangement furnished by the Company.
- c. 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 terminal equipment to the Company interface located on the customer's premises will be specified for each customer location but in no case shall it exceed one milliwatt.
2. To protect other services, it is necessary that the signal which is applied by the terminal equipment to the 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.
  - 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.

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## **A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS**

### **A15.1 Terms and Conditions (Cont'd)**

(T)

#### **A15.1.3 Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (Cont'd)**

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

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

##### **D. Connections Under Certification Programs**

1. Equipment that was connected under the following programs is also considered grandfathered as of their expiration date.
  - a. Attestation Program, which expired July 1, 1980.
  - b. Conformance Program, which expired July 1, 1979.

#### **A15.1.4 Acoustic or Inductive Connections**

##### **A. General**

1. Voice or data terminal equipment (including telephotograph equipment), multiline terminating systems and customer or Other Common Carrier-provided 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 Company.
2. Tone-type address signaling is permitted through such connections, however, the services of the Company are not designed for such use and the Company makes no representation as to the reliability of address signaling which is performed in such manner.

##### **B. Minimum Protection Criteria**

1. To prevent excessive noise and crosstalk in the network, it is necessary that the power of the signal which is applied by the terminal equipment to the network control signaling unit located on the customer's premises be limited so that the signal power at the output of the network control signaling unit (i.e., at the input to the Company line) does not exceed 9dB below one milliwatt when averaged over any three second interval. However, to permit each customer, independent of distance from the central office, to supply signal power which at the central office approximates 12dB below one milliwatt when averaged over any three second interval, the Company, at the customer's request, will specify, for each customer location, the signal power at the output of the network control signaling unit, which shall in no case exceed one milliwatt.

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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.1 Terms and Conditions (Cont'd)

(T)

#### A15.1.4 Acoustic or Inductive Connections (Cont'd)

##### B. Minimum Protection Criteria (Cont'd)

2. To protect other services, it is necessary that the signal which is applied by the terminal 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.
  - 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 (i.e., at the input to the Company line) shall at no time have energy solely in the 2450 to 2750 Hertz band. If there is signal power at the output of the 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.

#### A15.1.5 Accessories

Accessories may be used with telecommunications services provided such accessories comply with the provisions of A15.1.1.B and A15.1.3.B.1.b. preceding.

#### A15.1.6 Equipment-to-Equipment Connections

Equipment-to-Equipment connections, as defined in A15.1.1.F preceding, may be connected to the telecommunications network when such arrangements are in compliance with Part 68 of the Federal Communications Commission's Rules and Regulations and *this* Section.

(T)

#### A15.1.7 Connections of Communications Systems Not Subject to Part 68 of FCC Rules and Regulations

##### A. Direct Electrical Connection



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**A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS****A15.1 Terms and Conditions (Cont'd)**

(T)

**A15.1.7 Connections of Communications Systems Not Subject to Part 68 of FCC Rules and Regulations (Cont'd)****A. Direct Electrical Connection (Cont'd)**

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

1. The connection is made through:
  - a. a connecting arrangement furnished by the Company, or
  - b. registered or grandfathered terminal equipment, protective circuitry, or communications system subject to Part 68 of the Federal Communications Commission's Rules and Regulations which, either singularly or in combination, assures that the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are met at the network interface.

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

2. The connection is:
  - a. through switching equipment, or
  - b. to a communications system not subject to Part 68 of the Federal Communications Commission's Rules and Regulations that is arranged to promptly return the network service to an idle (on hook) state should the communications system fail. In addition, the customer must notify the Company when the communications system fails.
3. Minimum protection criteria set forth in A15.1.3.C. preceding are complied with when the connection is made through equipment or systems that are not registered.
4. When the connection is to WATS service, the customer has a requirement to communicate over a WATS line to or from premises of that customer located in the same rate state as that for which the WATS initial period rate applies. Communications systems not subject to Part 68 of the Federal Communications Commission's Rules and Regulations which are not connected through switching equipment must terminate only in that WATS rate state in terminal equipment or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations.

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## **A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS**

### **A15.1 Terms and Conditions (Cont'd)**

(T)

#### **A15.1.7 Connections of Communications Systems Not Subject to Part 68 of FCC Rules and Regulations (Cont'd)**

##### **B. Institutional Procedures for Signal Power Control**

1. When communications systems not subject to Part 68 of the Federal Communications Commission's Rules and Regulations are connected through (a) a Company-provided connecting arrangement or (b) registered or grandfathered terminal equipment, communications system or protective circuitry which assures that all of the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are met at the telecommunications network interface, no further action is required. However, when a customer elects to connect such a communications system to the telecommunications network and the registered or grandfathered equipment, system or protective circuitry through which the connection is made does not provide protection for signal power control, the customer must comply with the following institutional procedures:
  - a. The communications system must be installed, operated and maintained so that the signal power (within the frequency range of 200-4000 Hertz) at the telecommunications network interface continuously complies with Part 68 of the Federal Communications Commission's Rules and Regulations.
  - b. The operator(s)/maintainer(s) responsible for the establishment, maintenance and adjustment of the voice frequency signal power present at the telecommunications network interface must be trained to perform these functions by successfully completing one of the following:
    - (1) a training course provided by the manufacturer of the equipment used to control voice frequency signal power; or
    - (2) a training course provided by the customer or authorized representative, who has responsibility for the entire communications system, using training materials and instructions provided by the manufacturer of the equipment used to control the voice frequency signal power; or
    - (3) an independent training course (e.g., trade school or technical institution) recognized by the manufacturer of the equipment used to control the voice frequency signal power; or
    - (4) in lieu of the preceding training requirements, the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with (1) through (3) preceding.
  - c. Upon request, the customer is required to provide the proper documentation to demonstrate compliance with the requirements in this A15.1.7.B.
  - d. At least 10 days advance notice must be given to the Company in the form of a notarized affidavit before the initial connection of the communications system. A copy of the affidavit must also be maintained at the customer's premises. The affidavit must contain the following information:
    - (1) The full name, business address, business telephone number and signature of the customer or authorized representative who has responsibility for the operation and maintenance of the communications system.

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**A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS****A15.1 Terms and Conditions (Cont'd)**

(T)

**A15.1.7 Connections of Communications Systems Not Subject to Part 68 of FCC Rules and Regulations (Cont'd)****B. Institutional Procedures for Signal Power Control (Cont'd)**

1. (Cont'd)
  - d. (Cont'd)
    - (2) The line(s) which the communications system will be either connected to or arranged for connection to.
    - (3) A statement that all operations associated with establishment, maintenance and adjustment of the signal power present at the telecommunications network interface will comply with Part 68 of the Federal Communications Commission's Rules and Regulations.
    - (4) A statement describing how each operator/maintainer of the communications system will meet and continue to meet the training requirements for persons installing, adjusting or maintaining the communications system.
2. Extraordinary Procedures
  - a. The Company may invoke extraordinary procedures to protect the telecommunications network where one or more of the following conditions are present:
    - (1) Information provided in the affidavit gives reason to believe that a violation of Part 68 of the Federal Communications Commission's Rules and Regulations or the Institutional Procedures set forth in 1. preceding is likely.
    - (2) Harm has occurred and there is reason to believe this harm was a result of operations performed under the Institutional Procedures set forth in 1. preceding.
  - b. The extraordinary procedures which can be invoked by the Company include:
    - (1) Requiring the use of protective apparatus which either protects solely against signal power or which assures that all of the requirements of Part 68 are met at the telecommunications network interface. This protective apparatus may be provided by either the Company or the customer.
    - (2) Disconnecting service.

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**A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS****A15.1 Terms and Conditions (Cont'd)**

(T)

**A15.1.8 (DELETED)****A15.1.9 Connections of Certain Facilities of Power, Pipe Line 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 A15.1.3 and A15.1.7 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 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 Company.
  - e. Such customer telecommunications facilities will be connected to PBX switchboards or other switching or terminal equipment located in the same or different local service areas, for communications with stations and private line facilities associated with said switching or terminal equipment; provided, however, that within the same local service area, a PBX switchboard or other switching or terminal equipment for telecommunications service will not be connected with telephones of the customer except telephones associated with party line right-of-way circuits requiring line termination at the PBX, nor with private telephone switching equipment of the customer except where such private telephone switching equipment is used exclusively for dispatching or line switching equipment not connected with customer-provided telephones within the same local service area.

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**A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS****A15.1 Terms and Conditions (Cont'd)**

(T)

**A15.1.9 Connections of Certain Facilities of Power, Pipe Line and Railroad Companies (Cont'd)****A.** General (Cont'd)

## 1. (Cont'd)

f. Facilities of the Company, when connected with facilities of the customer, will not be used for communications of other than the customer, except that such facilities may be used for the communications of, and be connected with facilities furnished by the Company to, other companies which:

- (1) Are operated with the customer as part 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 electric power or pipe line or railroad system jointly with the customer; or
- (3) Own or operate electric power or pipe line or railroad facilities interconnected with those of the customer.

2. Telecommunications 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 Company. Such equipment or position may be located at either or both ends of the customer's circuit.

3. Connection of a telecommunications circuit of such companies as specified in l.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 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 A15.1.2. preceding.

**A15.1.10 Connections of Certain Facilities of the National Aeronautics and Space Administration**

**A.** Except as otherwise provided in B. following, telecommunications facilities of the National Aeronautics and Space Administration may, in lieu of the provisions of A15.1.3 and A15.1.7 preceding, be connected by means of switching or connecting equipment to a PBX switchboard or other switching or terminal equipment, for communication with stations and private line facilities associated with said switching or terminal equipment, where the Administrator of the National Aeronautics and Space Administration or his authorized representative notifies the Company in writing that such connection is required for the control of space vehicles. Such Department facilities will be connected to the telecommunications network only in cases of emergency involving safety of life or property, unless the aforesaid Department facilities are in locations where it is impracticable for the Company to furnish its facilities.

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**A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS****A15.1 Terms and Conditions (Cont'd)**

(T)

**A15.1.10 Connections of Certain Facilities of the National Aeronautics and Space Administration (Cont'd)**

- 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 A15.1.2. preceding.

**A15.1.11 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 telecommunications 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 A15.1.3 and A15.1.7 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 telecommunications system of the Department. In addition, the facilities of a temporary telecommunications system of such Department located off a permanent establishment of the Department for maneuvers, mobilization tests or technical service tests will be so connected.
  2. Except as otherwise provided in B. following, telecommunications 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 A15.1.3 and A15.1.7 preceding, be connected by means of switching or connecting equipment to a PBX switchboard or other telecommunications switching or terminal equipment, where the Secretary of the appropriate Department or his authorized representative notifies the Company in writing that such connection is required for reasons of military necessity. Such Department telecommunications facilities will be connected to the telecommunications network only in cases of emergency involving safety of life or property, unless the aforesaid Department facilities are in locations where it is impracticable for the Company to furnish its facilities.
- 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 A15.1.2. preceding.

**A15.1.12 Connections of Station Lines and Facilities in 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.

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## **A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS**

### **A15.1 Terms and Conditions (Cont'd)**

(T)

#### **A15.1.12 Connections of Station Lines and Facilities in Hazardous or Inaccessible Locations (Cont'd)**

- 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 A15.1.2. preceding.

#### **A15.1.13 U. S. Coast Guard and U. S. Army National Guard**

- A.** Telecommunications facilities of the U. S. Coast Guard, provided primarily to serve Coast Guard Stations in coastal areas as an aid in saving and protecting life and property, will be connected to facilities of the Company for telecommunications service.

Radio facilities of the U.S. Army National Guard, provided for two way point-to-point communications in times of natural disasters or other emergencies when local and toll facilities of the Company are out of service at or between either of the service points, may be connected to facilities of the Company for telecommunications service.

- 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 A15.1.2. preceding.

#### **A15.1.14 Connection of Test Equipment**

- A.** Totally Protective Connections

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

- B.** Interim Program for Connections of Test Equipment

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

1. The test equipment is limited to transmission signal power generating and/or detection devices, or similar devices, utilized by the Customer for the detection and/or isolation of a communications service fault.

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## **A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS**

### **A15.1 Terms and Conditions (Cont'd)**

(T)

#### **A15.1.14 Connection of Test Equipment (Cont'd)**

##### **B. Interim Program for Connections of Test Equipment (Cont'd)**

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

##### **C. Institutional Procedures for Signal Power Control**

1. In accordance with A15.1.14.B.4 preceding, the Customer must comply with the following Institutional Procedures:
  - a. The Customer must install, operate and maintain the test equipment so that its signal power at the telecommunications network interface complies with Subpart D of Part 68 of the Federal Communications Commission's Rules and Regulations.
  - b. The operator(s)/maintainer(s) responsible for the test equipment signal power present at the telecommunications network interface must be trained to perform these functions by successfully completing one of the following;
    - (1) a training course provided by the manufacturer of the test equipment, or
    - (2) a training course provided by the Customer, or authorized representative of the Customer, using training materials and instructions provided by the manufacturer of the test equipment, or
    - (3) an independent training course (e.g., trade school or technical institution) recognized by the manufacturer of the test equipment, or
    - (4) in lieu of the preceding training requirements, the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with (1) through (3) preceding.



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## **A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS**

### **A15.1 Terms and Conditions (Cont'd)**

(T)

#### **A15.1.14 Connection of Test Equipment (Cont'd)**

##### **C. Institutional Procedures for Signal Power Control (Cont'd)**

1. In accordance with A15.1.14.B.4 preceding, the Customer must comply with the following Institutional Procedures: (Cont'd)
  - b. (Cont'd)

Upon request, the Customer is required to provide proper documentation to demonstrate compliance with the requirements in this (b).
  - c. Advance notice must be given to the Company in the form of a notarized affidavit before the initial connection of the test equipment at each premises after April 9, 1981. A copy of the affidavit must also be maintained at the Customer's premises. The affidavit must contain the following information:
    - (1) The full name, business address, business telephone number and signature of the Customer or authorized representative who has responsibility for the operation of the test equipment.
    - (2) The line(s) to which the test equipment will be either connected to or arranged for connection to.
    - (3) A statement that all operations associated with the establishment, maintenance and adjustment of the test equipment signal power present at the telecommunications network interface will comply with Subpart D of Part 68 of the Federal Communications Commission's Rules and Regulations.
    - (4) A statement describing how each operator of the test equipment will meet and continue to meet the training requirements for persons installing, connecting, adjusting or maintaining the test equipment.
2. Extra-ordinary Procedures
  - a. The Company may invoke extra-ordinary procedures to protect the telecommunications network where one or more of the following conditions are present:
    - (1) Information provided in the affidavit gives reason to believe that a violation of Part 68 of the Federal Communications Commission's Rules and Regulations or the Institutional Procedures set forth in (1) preceding is likely.
    - (2) Harm has occurred and there is reason to believe this harm was a result of operations performed under the Institutional Procedures set forth in (1) preceding.
  - b. The extra-ordinary procedures, which can be invoked by the Company, include:
    - (1) Requiring the use of protective apparatus which either protects solely against excessive signal power or which assures that all of the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are met at the telecommunications network interface.
    - (2) Disconnecting service.

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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.2 Terminal Equipment

#### A15.2.1 Data Transmitting and/or Receiving Terminal Equipment

- A. Data transmitting and/or receiving terminal equipment, (including telephotograph equipment), which involves direct electrical connection to the facilities furnished by the Company may be used with such facilities for telecommunications service through a connecting arrangement, provided by the Company at the same rates and charges as specified in other sections of the *Guidebook* . (T)
- B. Data Access Arrangement (T)
- Except as otherwise provided in A15.1.7 and A15.1.8, installations of new connecting arrangements will not be made for connection of terminal equipment, for connection of communications systems, and for equipment-to-equipment connections. Treatment with respect to grandfathered installations which include such connecting arrangements is covered in A15.1.3.B. (T)
1. Network Protection Criteria (T)
- Where the customer elects to use data transmitting and/or receiving terminal equipment through a data access arrangement, *terms and conditions* specified in A15.1.3.B are applicable. (T)

#### A15.2.2 U. S. Government Executive Departments and Agencies

- A. Equipment of a department or agency of the Executive Branch of the U. S. Government used for the purpose of disguising or concealing the contents or meaning of communications may be connected to Company facilities subject to the *terms* and conditions stated below: (T)
1. The head of the department or agency whose equipment is to be connected, or his authorized representative, shall notify the Company in writing that such connection is necessary to safeguard official information which requires protection in the interests of national defense, or other confidential official information disclosure of which to unauthorized persons would be detrimental to the public interest.
2. The connection shall be made by means of connecting equipment or arrangements furnished by the Company.
- B. 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 telecommunications network in accordance with A. preceding, must conform with Part 68 of the Federal Communications Commission's Rules and Regulations.

#### A15.2.3 Voice Transmitting and/or Receiving Terminal Equipment

- A. *Terms and Conditions* (T)
1. General (T)
- Telecommunications service furnished by the Company is not represented as adapted to the recording of telephone conversations. However, recording equipment may be used in connection with telecommunications service subject to the *terms and conditions* specified in A15.1.1.D and A15.1.3.B. (T)

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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.2 Terminal Equipment (Cont'd)

#### A15.2.3 Voice Transmitting and/or Receiving Terminal Equipment (Cont'd)

##### A. *Terms and Conditions* (Cont'd)

(T)

###### 1. General (Cont'd)

- a. (Filed in compliance with order dated May 20, 1948 of Federal Communications Commission in Docket No. 6787)  
Connection of voice recording equipment with facilities of the Company for the recording of two-way telephone conversations is permitted by means of a direct electrical connection or a connecting arrangement for additions to Grandfathered Terminal Equipment or Communications Systems.
- b. The voice recording equipment must comply with the minimum network protection criteria set forth for direct electrical connection of voice terminal equipment in A15.1.3.C. preceding.
- c. Except as otherwise provided in A15.1.7 and A15.1.8, installations of new connecting arrangements will not be made for connection of terminal equipment, for connection of communications systems and for equipment-to-equipment connections. Treatment with respect to grandfathered installations which include such connecting arrangements is covered in A15.1.3.B.

(T)

#### A15.2.4 Dictation Recording Equipment

##### A. *Terms and Conditions*

(T)

###### 1. General

Recording equipment may be used in connection with dial PBX, ESSX or Centrex facilities of the Company for the recording of dictation subject to the following conditions:

- a. Connection with Company Facilities
  - (1) Connection of dictation recording equipment with PBX, ESSX or Centrex facilities of the Company shall be made only through a PBX, ESSX or Centrex dictation recording terminal furnished for this purpose. The dictation recording terminal will include and terminate in a connecting block to which alone the dictation recording equipment may be connected.
  - (2) The dictation recording equipment may be used only with extensions of the customer's PBX, ESSX or Centrex arrangement or extensions of associated PBX, ESSX or Centrex systems connected by tie lines, and in no case shall such equipment be connected to the local and long distance networks.
  - (3) One dictation recording terminal is required for connection with each dictation recording machine.
  - (4) Auxiliary equipment at the PBX may be required.

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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.2 Terminal Equipment (Cont'd)

#### A15.2.4 Dictation Recording Equipment (Cont'd)

##### A. *Terms and Conditions* (Cont'd) (T)

##### 1. General (Cont'd)

##### a. Connection with Company Facilities (Cont'd)

- (5) Except as otherwise provided in A15.1.7 and A15.1.8, installations of new connecting arrangements will not be made for connection of terminal equipment, for connection of communications systems and for equipment-to-equipment connections. Treatment with respect to grandfathered installations which include such connecting arrangements is covered in A15.1.3.B. (T)

#### A15.2.5 Channel Derivation Devices

Channel derivation devices may be connected with Company facilities for telecommunications service provided such devices comply with the provisions of A15.2.1 preceding.

### A15.3 Communications Systems

#### A15.3.1 Application

- A. Communications systems (including channels derived from such systems), not exceeding voice grade, may be connected with telecommunications service at the premises of the customer as provided in A15.1.7.

#### A15.3.2 Public Address and Loudspeaker or Radio Paging Systems<sup>1</sup>

##### A. *Terms and Conditions* (T)

##### 1. General

Public address or loudspeaker paging systems, which include amplifiers, receiving speakers, and associated wiring used to transmit paging messages or announcements in one direction only, may be used in connection with Company facilities furnished for Centrex, ESSX, PBX, and key telephone systems.

Radio paging systems used to transmit voice paging messages or announcements or code signaling tones, in one direction only, may be used in connection with Company facilities furnished for dial PBX, ESSX and Centrex systems.

Connection of the preceding public address and paging systems are subject to the following conditions:

**Note 1:** For protective voice connecting arrangements, DCK and DCL as specified in A115.1.6.

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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.3 Communications Systems (Cont'd)

#### A15.3.2 Public Address and Loudspeaker or Radio Paging Systems<sup>1</sup> (Cont'd)

##### A. *Terms and Conditions* (Cont'd)

###### 1. General (Cont'd)

###### a. Connection with Company Facilities

- (1) Connection of public address or loudspeaker paging systems with facilities of the Company shall be made only through connecting equipment or arrangements. The connecting equipment or arrangements will include a connecting block or equivalent to which the public address or loudspeaker paging will be connected.
- (2) Connection of radio paging systems with facilities of the Company shall be made only through an Interface Trunk Circuit. This circuit will accept calls from dial PBX, ESSX or Centrex stations directly or over dial repeating tie lines from another PBX. Connection of incoming calls from the local and long distance message telecommunications network must be through the attendant and the attendant must do the necessary dialing. In all cases, transmission is limited to one direction only.
- (3) The Company facilities when so connected may be used only to transmit messages or signals to public address and loudspeaker or radio paging systems. Such public address and loudspeaker or radio paging systems may not be used to originate messages into Company facilities.
- (4) Auxiliary equipment at the PBX may be required.
- (5) Except as otherwise provided in A15.1.7 and A15.1.8, installations of new connecting arrangements will not be made for connection of terminal equipment, for connection of communications systems and for equipment-to-equipment connections. Treatment with respect to grandfathered installations which include such connecting arrangements is covered in A15.1.3.B.

(T)

(T)

#### A15.3.3 Airline Companies and Federal Aviation Agency

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

**Note 1:** For protective voice connecting arrangements, DCK and DCL as specified in A15.1.6.

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## **A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS**

### **A15.3 Communications Systems (Cont'd)**

#### **A15.3.4 Reserved for Future Use**

#### **A15.3.5 Connecting Arrangements - Voice Communications - Automatic**

Except as otherwise provided in A15.1.7 and A15.1.8, installations of new connecting arrangements will not be made for connection of terminal equipment, for connection of communications systems and for equipment-to-equipment connections. Treatment with respect to grandfathered installations which include such connecting arrangements is covered in A15.1.3.

### **A15.4 (DELETED)**

(D)

### **A15.5 Connections of Other Carrier-Provided Communications Systems**

#### **A15.5.1 General Provision**

Communications systems provided by the Other Carrier (listed in A15.5.6) hereafter referred as the OC, may be connected with the facilities furnished by the Company for telecommunications services as specified in A15.5.2 through A15.5.9 following.

## **A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS**

### **A15.5 Connections of Other Carrier-Provided Communications Systems (Cont'd)**

#### **A15.5.2 Responsibility of the Customer**

Where telecommunication services are available under this *Guidebook* for use in connection with OC-provided communications systems, the operating characteristics of such systems shall be such as not to interfere with any of the services offered by the Company. Such use is subject to the further provisions that the OC-provided systems do not endanger the safety of Company employees or the public; damage, require change in or alteration of the equipment or other facilities; impair the operation of the telecommunications system or otherwise injure the public in its use of the Company's services. Upon notice from the Company that the OC-provided system is causing or is likely to cause such hazard or interference the customer shall arrange with the OC to make such change as shall be necessary to remove or prevent such hazard. (T)

The customer shall be responsible for payment of a nonrecurring charge as set forth in this *Guidebook* for each repair visit by the Company to the premises of the customer solely to determine that the service difficulty results from the use of equipment, facilities or services provided by an Other Carrier. (T)

#### **A15.5.3 Network Control Signaling**

Satisfactory performance of the telecommunications network requires continuing functional compatibility of the network control signals and the switching equipment involved. To assure such continuing compatibility, network control signaling (except tone-type address signaling through a Company-provided or OC-provided connecting arrangement) in the furnishing of telecommunications service shall be performed by equipment furnished, installed and maintained by the Company or the OC.

#### **A15.5.4 Conditions for Connection of OC-Provided Communications Systems**

- A. OC-provided communications systems, including channels derived from such systems, analog not exceeding voice grade or digital, may be connected with telecommunications services at the premises of the customer provided that:
1. The connection is only made through a Service Terminating Arrangement in one of the following ways:
    - a. Through switching equipment,
    - b. Through a channel derivation device, or
    - c. Directly to the Service Terminating Arrangement.
  2. The rates and charges for connection to OC-provided communications systems shall be the same as those that would apply if the Company services were so connected. The rates and charges to the customer are in addition to the rates and charges made by the OC for the services and channels which it provides.
  3. For connections to Wide Area Telecommunications Service (WATS) the customer must have a requirement to communicate over the WATS line to or from premises of that customer located in the same rate state and LATA as that for which the WATS initial period rate applies. Other Carrier-provided communications systems which are connected directly to the Service Terminating Arrangement must terminate only in that WATS rate state in terminal equipment or a multiline terminating system. (M)
  4. The design, maintenance and operation of Wide Area Telecommunications Service (WATS) envisions that communications will originate or terminate at a WATS termination for the purpose of communicating with locations in the specified service areas. Connections of communications systems provided by the customer or Other Carrier to WATS may be made. However, the Company will not be responsible for the through transmission of signals or for the quality of transmission on such connections. (M)

**A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS**

**A15.5 Connections of Other Carrier-Provided Communications Systems (Cont'd)**

(M)

**A15.5.5 OC Service**

All arrangements for service provided by an OC shall be made by the customer with that carrier. The furnishing of telecommunications services by the Company is not part of a joint undertaking with the OC.

**A15.5.6 Other Carriers**

A. The OCs referred to in this section, and their tariffs are:

<b>Carrier</b>	<b>Tariff FCC NO.</b>	<b>PSC NO.</b>
Western Union Telegraph Company	254	1
Western Union Telegraph Company	261	-
AT&T Communications	-	-

B. The International Record Carriers (IRC's) referred to in this section, and their tariffs are:

<b>Carrier</b>	<b>Tariff FCC No.</b>
ITT World Communications, Inc.	7,12,43,48,66,67
RCA Global Communications, Inc.	58,68,79,88
TRT Telecommunications Corp.	63
Western Union International, Inc.	3,4,5,11,12,18



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## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.5 Connections of Other Carrier-Provided Communications Systems (Cont'd)

#### A15.5.7 Responsibility of the Company

- A. The Company shall not be responsible for the installation, operation or maintenance of any OC-provided communications equipment or system. Telecommunications services are not represented as adapted to the use of OC-provided equipment or systems and where such equipment or systems are connected to Company facilities the responsibility of the Company shall be limited to the furnishing of facilities suitable for telecommunications services and to the maintenance and operation of such facilities in a manner proper for such telecommunications services; subject to this responsibility the Company shall not be responsible for (1) the through transmission of signals generated by the OC-provided equipment or systems or for the quality of, or defects in, such transmission, or (2) the reception of signals by the OC-provided equipment or system, or (3), network control signaling where such signaling is performed by OC-provided network control signaling equipment.
- B. The Company shall not be responsible to the customer or OC if changes in minimum network protection criteria, or in any of the facilities, operations or procedures of the Company render any facilities provided by an OC or any portion thereof obsolete or require modification or alteration of such equipment or system, or otherwise affects its use or performance.
- C. When an Other Carrier-provided communications system (1) utilizes satellite facilities, or (2) is connected to a communications system which utilizes satellite facilities, the connection of that system to Wide Area Telecommunications Service (WATS) or Long Distance Message Telecommunications Service (LDMTS) result in the utilization of two or more satellite circuits on the combined connected services. In such cases the Company will only be responsible to furnish service components suitable for WATS or LDMTS service maintain and operate those service components accordingly. Subject to that responsibility, the Company will not be responsible for the quality of the through transmission of signals on such connection. The Company will not apply any credit allowance for impaired transmission from such connection unless the defect was in the WATS or LDMTS service.

#### A15.5.8 Violation of Terms and Conditions

When any equipment or communications system provided by an OC is connected to facilities furnished by the Company for telecommunications service in violation of any of the provisions in this *Guidebook*, the Company will take such immediate action as necessary for the protection of the network and will promptly notify the customer of the violation. The customer shall discontinue such connection of the equipment or correct the violation and shall confirm in writing to the Company within 10 days, following the receipt of written notice from the Company, that such connection has ceased or that the violation has been corrected. Failure of the customer to discontinue such connection or to correct the violation and to give the required written confirmation to the Company within the time stated above shall result in suspension of the customer's service until such time as the customer complies with the provision of this *Guidebook*.

(T)

(T)

## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.5 Connections of Other Carrier-Provided Communications Systems (Cont'd)

#### A15.5.9 Connection of Other Carrier Communications Systems at the Premises of the Company<sup>1</sup>

- A. Other Carrier-provided communications systems may be connected at the premises of the company as follows:
1. Other Carrier-provided communications systems (utilizing Central Office Connecting Facilities) provided to a customer may be connected with WATS furnished by the Company to the same customer through:
    - a. Switching Equipment furnished in accordance with the provisions of this *Guidebook*. (T)
    - b. Common Control Switching Arrangements or a switching center for Enhanced Private Switched Communications Service in accordance with the Private Line *Guidebook*<sup>2</sup>. (T)
  2. Other Carrier-provided communications systems (utilizing Central Office Connecting Facilities) provided to a customer may be directly connected at the premises of the Company with exchange telephone service to be used with Long Distance Message Telecommunications Service furnished by the Company to the same customer, provided that the connections are made through:
    - a. Individual exchange lines or PBX trunk exchange lines to permit communications via the OC-provided communications system, to or from the customer's premises located in an exchange foreign to the exchange in which the connection is made.
    - b. Switching equipment furnished in accordance with the provisions of this *Guidebook*. (T)
- B. Other Carrier-provided communications systems (utilizing WATS Central Office Connecting Facilities), not exceeding voice grade, provided to a customer may be connected with WATS furnished by the Company to the same customer, at a Company designated WATS Central Office provided that:
1. The customer has a requirement to communicate over the WATS line from or to premises of that customer located in the same rate state and LATA as that for which the WATS initial period rate applies;
  2. The Other Carrier-provided communications system is dedicated to the exclusive use of the WATS Customer and is terminated at the premises of the Other Carrier in switching equipment provided by the Other Carrier to the WATS Customer as a part of its authorized domestic switched private line service;
  3. All communications over Outward WATS will originate at the premises of the WATS Customer via an access channel dedicated to the private use of the WATS Customer. That access channel and all intermediate channels, if any, shall not be used or usable for public communications service.

**Note 1:** Effective July 1, 1974, in compliance with the Decision of the Federal Communications Commission in Docket No. 19896 released April 23, 1974 (FCC 74-457), and shall terminate immediately at such time as the Decision is stayed or set aside, in whole or in part, by any court of competent jurisdiction.

**Note 2:** Such connections shall be made only if the customer has a requirement to communicate over a WATS line to or from premises of that customer located in the same rate state as that for which the WATS initial period rate applies.

## A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

### A15.5 Connections of Other Carrier-Provided Communications Systems (Cont'd)

#### A15.5.9 Connection of Other Carrier Communications Systems at the Premises of the Company<sup>1</sup> (Cont'd)

**B.** (Cont'd)

4. All communications over Inward WATS (800 Service) will terminate at the premises of the WATS Customer via an access channel dedicated to the private use of the WATS customer. That access channel and all intermediate channels, if any, shall not be used or usable for public communications service.
5. Where Inward WATS (800 Service) is connected to an Other Carrier Channel, the Other Carrier shall operate, in a hunting arrangement, two WATS Central Office Connecting Facilities for the first WATS access line in each service group provided to the WATS Customer.
6. Where Inward WATS (800 Service) is connected to an Other Carrier Channel, the Other Carrier switching equipment shall provide the necessary supervision so that chargeable time begins upon delivery of the WATS call to such switching equipment and ends upon termination of the call by the calling party.

**C.** Company-provided services, in accordance with 1. and 2. preceding, will be furnished at an OC terminal location in an area served by this Company and:

1. Within the same central office area, for the exchange, from which the exchange service is furnished, or,
2. Within a different central office area, for the exchange from which the exchange service is furnished when both the OC terminal location and the central office area are located within the same Local Distribution Area. (T)

**D.** Where service is furnished in accordance with C. preceding, Company-provided special assembly arrangements may be necessary to maintain transmission criteria and to meet 4-wire interface requirements (including 2-4 wire hybrid arrangement) for connection of the exchange telephone service with the OC-provided interstate communications system. Such arrangements may be furnished by the Company at the request of the customer. Also, where service is furnished in accordance with C.2. preceding, inter-office and/or interexchange channels are required. Charges to the customer for such special assembly arrangements and channels are at rates the same as specified in this Company's Private Line Guidebook; these charges are in addition to the charges for the exchange telephone service which will be billed by the Company to its customer at rates specified in the applicable exchange Guidebook.

**E.** The customer shall be responsible for a nonrecurring Dispatch Charge – Trouble Determination (TLCPR) specified for Basic Residence and Basic Business services for visits by the Company to the OC terminal location solely to determine that the service difficulty or trouble report results from the use of equipment or facilities provided by the customer authorized user or the OC.

**Note 1:** Effective July 1, 1974, in compliance with the Decision of the Federal Communications Commission in Docket No. 19896 released April 23, 1974 (FCC 74-457), and shall terminate immediately at such time as the Decision is stayed or set aside, in whole or in part, by any court of competent jurisdiction.

**A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS****A15.5 Connections of Other Carrier-Provided Communications Systems (Cont'd)****A15.5.10 Connection of OC-Provided Communications Systems at the Premises of the OC**

1. Other Carrier-provided communications systems may be connected with WATS at the premises of the Other Carrier provided that the Other Carrier-provided communications system and the WATS are furnished to a Composite Data Service Vendor for use in the provision of composite data service and provided that the connection is made through data switching equipment. The Other Carrier-provided communications system and the data switching equipment will be treated as a communications systems as set forth in A15 preceding.
2. WATS may be connected at the premises of an overseas carrier with authorized overseas data message service provided by that overseas carrier.

**A15.5.11 Reserved for Future Use****A15.6 Reserved for Future Use**