
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 this *Section*. Connection of inside wire may be made as provided in *Section* A2.9. Telecommunications services as used herein include exchange service, Long Distance Message Telecommunications Service (LDMTS) and Wide Area Telecommunications Service (WATS).

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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 combinations of terminal equipment or communications systems shall require change in or alteration of the equipment or services of the Company, cause electrical hazards to Company personnel, damage to Company equipment, malfunction of Company billing equipment, or degradation of service to persons other than the user of the subject terminal equipment or communications system, his calling or called party. Upon notice from the Company that 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 Trouble Location Charge as provided in A15.4 for visits by a Company employee to the customer's premises solely to determine that a service difficulty or trouble report results from the use of terminal equipment, communications systems or facilities located on the customer's side of the demarcation point.

C. Responsibility of the Company

1. 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, (2) the reception of signals by terminal equipment or communications system, 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 terminal equipment to operate in a manner compatible with telecommunications services.

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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)

C. Responsibility of the Company (Cont'd)

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.
4. The Company will provide facilities to the point of demarcation on the customers' premises. See A2.15 for location of the demarcation point.

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D. Recording of Two-Way Telephone Conversations

1. Telecommunications services are not represented as adapted to the recording of two-way telephone conversations. However, customer-provided voice recording equipment may be directly, acoustically or inductively connected with telecommunications services. When such connections are made, 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.
 - a. All parties to the telephone conversation must give their prior consent to the recording of the conversation, and the prior consent must be obtained in writing or be part of, and obtained at the start of the recording, or
 - b. A distinctive recorder tone that is repeated at intervals of approximately fifteen seconds is required when recording equipment is in use.
2. Requirements for one of the conditions as specified in 1.a through 1.c 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. Additionally, recorder connector equipment which does not contain the automatic recorder tone device may be furnished to law enforcement agencies, fire departments and Public Safety Answering Points in connection with 911 Service for use on central office lines assigned exclusively for the receipt of local or intrastate law enforcement, fire or other emergency calls and attended at all times for such purpose provided that the department or agency certifies these conditions will be observed.
 - 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.

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Page 2.1 is hereby deleted in its entirety and removed from this Guidebook

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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*

(T)

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

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F. Definitions

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.

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.

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 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 Company provided connecting arrangements) to the telecommunications network as of June 1, 1978.

(T)

Grandfathered Connections of Communications Systems

The term "Grandfathered Connections of Communications Systems" as used in this *Section* 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 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.

(T)

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 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.

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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)

Grandfathered Connections of Terminal Equipment

The term "Grandfathered Connections of Terminal Equipment" as used in this *Section* 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. (T)

Registered Equipment

The term "Registered Equipment" as used in this *Section* denotes equipment which complies and has been approved within the Registration provisions of Part 68 of the Federal Communications Commission's Rules and Regulations. (T)

- G. Connection of 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. (T)

A15.1.2 Connections of Registered Equipment

A. Registered Terminal Equipment, Registered Protective Circuitry and Registered Communications Systems

1. 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 Regulations¹, A15.1 and the following: (T)
 - a. All combinations of registered equipment and associated nonregistered 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 Regulations¹ are continually satisfied.
 - b. 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 is also responsible for specification of the appropriate USOC when other than the standard Network Interface, RJ11C or RJ11W, is required. The customer shall also provide, where appropriate, the off-premises station port signaling capability of a PBX System.

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Note 1: Connection of inside wiring may also be provided in connection with one and two party basic exchange service, WATS or Private Line Service in accordance with A2.9.

A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

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

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

- A. Registered Terminal Equipment, Registered Protective Circuitry and Registered Communications Systems (Cont'd)
3. The Customer shall not connect registered equipment to a Company line if: (T)
 - a. The Ringer Equivalence of such equipment in combination with the total Ringer Equivalence of other equipment connected to the same line exceeds the allowable maximum of five or as otherwise determined by the Company, or (M)
 - b. The ringer type 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 A2.9 or *paragraph* 5, 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. (T)
 5. The requirement for the use of standard jack as described in 4 is waived for registered equipment which is located in hazardous or inaccessible locations. (T)
 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. Terminal equipment, protective circuitry, and communications systems that are registered may be connected to those private line services specified in a, b, c or d, subject to A15.1.1 and this *paragraph*, A15.1.2. (T)
 - a. The connection may be made only at the Customer's premises to Series 2100 channel services that present a two wire or four wire loop signaling interface for such connection under the following conditions:
 - (1) Registered terminal equipment, registered protective circuitry, and registered key telephone systems may be connected to the station end of private line services furnished in connection with off-premises stations.
 - (2) Registered PBX Systems may be connected, as a trunk termination, to the station end of private line services furnished in connection with off-premises stations.
 - (3) Registered terminal equipment, registered protective circuitry, and registered key telephone systems may be connected to CCSA or EPSCS access lines.
 - b. 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.
 - c. The connection of registered terminal equipment and registered PBX systems may be made only at the Customer's premises to a Type 2114 channel that presents an interface for either 2 or 4 wire transmission, with separate E & M signaling leads conventionally known as Type I (battery/ground) or Type II (contact closure type). Such E & M signaling leads are those terminal equipment or PBX leads (other than voice or data communications leads) used for the purpose of transferring supervisory or address signals across the interface.
 - d. The connection of registered terminal equipment and registered PBX systems may be made only at the Customer's premises to private line service furnished to provide indications of message registration of outgoing calls or automatic identification of outward dialing (AIOD) to such equipment or systems.
 - (1) In addition, Customers who intend to install, perform additions to, or make rearrangements of AIOD functions 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.

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

(T)

A15.1.2 Connections of Registered Equipment (Cont'd)**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) 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. (T)
 - (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.
 - 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 gives reason to believe that a violation of Part 68 of the Federal Communications Commission's Rules and Regulations is likely. (T)
 - 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.
4. The Company will install premises wiring behind registered or grandfathered PBX and Key Systems. (M)

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

(T)

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

(M)

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.

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 or Network Interface; and
- c. All such connections shall comply with the minimum protection criteria set forth in C. following.
- d. A customer-provided grandfathered Key System may be connected behind a Company-provided PBX or Centrex System provided that, in all instances, the customer-provided equipment and the associated customer-provided premises wiring are in compliance with Section 68.214 and 68.215 of the FCC's Rules and Regulations.

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

- 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;
- (3) All such connections shall comply with the minimum protection criteria set forth in A15.1.3.C; (T)
- (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 *Service Publications*; and (T)

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

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

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

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, 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.
- (2) Customer provided communications systems which are not subject to Part 68 of the Federal Communications Commission's Rules and Regulations may be connected in accordance with A15.1.7 following. Company-provided connecting arrangements are furnished for the connection of such systems as specified in A15.2 and 3.

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

1. General (Cont'd)

a. Basis of Connection (Cont'd)

- (3) Terminal equipment may be connected in accordance with A15.1.8 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. (T)
- (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: (T)

- (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. (T)

- (2) Signaling functions may be performed by Conforming Answering Devices specified in D. (T)

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 terminal equipment.
- (2) The data terminal equipment must comply with the minimum protection criteria specified in C. (T)
- (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.

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

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

b. Voice Terminal Equipment

Subject to the provisions of 1.a. (1) and (3), voice terminal equipment may be connected at the Customer's premises to the telecommunications network in accordance with the following: (T)

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

(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.

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

3. Grandfathered Connections of Communications Systems

Subject to the provisions of 1.a. (1), customer provided communications systems may be connected at the Customer's premises to telecommunications services in accordance with the following: (T)

a. Such telecommunications service or customer provided 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 shall apply to the connection of customer provided communications systems. As related to minimum protection criteria and when applied to the connection of customer provided communications systems, the term "Customer's Premises" shall include any premises on which the customer provided communications system is terminated. (T)

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 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 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.

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)

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 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 dates:
 - a. Attestation Programs, which expired July 1, 1980.
 - b. Conformance Programs, 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 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.

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 l. 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 terminal 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.

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.

(T)

A15.1.6 Equipment-to-Equipment Connections

- A. Equipment-to-Equipment connections, as defined in A15.1.1.F 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 Section A15 of this *Guidebook*.

(T)

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

A. Direct Electrical Connection

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

1. Such telecommunications service or customer provided communications system is utilized for the origination or termination of communications at the Customer's premises where the connection is made.

(M)

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)

2. The connection is made through:

(T)

- a. A connecting arrangement furnished by the Company, or
- b. Registered or grandfathered terminal equipment, protective circuitry, or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations which, either singularly or in combination, assures that the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are met at the network interface.

(M1)

When a customer provided communications system is connected to the network through a connecting arrangement, terminal equipment or protective circuitry (i.e., not through switching equipment), the customer provided communications system must be arranged to promptly return the line to the idle (on-hook) state should the customer provided communications system fail. In addition, the customer must notify the Company when the customer provided communications system fails.

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

(T)

3. Minimum protection criteria set forth in A15.1.3.C 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. Customer provided communications systems not subject to Part 68 of the Federal Communications Commission's Rules and Regulations which are not connected through switching equipment must terminate only in that WATS rate state in terminal equipment or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations.

(T)

B. Institutional Procedures for Signal Power Control

1. When customer provided communications systems not subject to Part 68 of the Federal Communications Commission's Rules and Regulations are connected through (a) a connecting arrangement, or (b) registered or grandfathered terminal equipment, communications systems 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 a communications system to the telecommunications network and the registered or grandfathered equipment, communications 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 customer provided communications system must be installed, operated and maintained so that the signal power (within the frequency range of 200-4000 Hertz) at the telecommunications network interface continuously complies with Part 68 of the Federal Communications Commission's Rules and Regulations.

(M2)

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)

- 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: (T)(M)
 - (1) a training course provided by the manufacturer of the equipment used to control voice frequency signal power; (M)
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). (T)
- c. Upon request the customer is required to provide the proper documentation to demonstrate compliance with the requirements in this *paragraph*, A15.1.7.B. (T)
- d. At least 10 days advance notice must be given to the Company in the form of a notarized affidavit before the initial connection of the customer provided communications system. A copy of the affidavit must also be maintained at the customer's premises. The affidavit must contain the following information:
 - (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.
 - (2) The line(s) which the communications system will either be connected to or arranged for connection to.
 - (3) A statement that all operations associated with the 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 is likely. (T)
 - (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. (T)

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)

2. Extraordinary Procedures (Cont'd)

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.

c. A charge equal to the Trouble Location Charge as provided in A15.4 will apply when:

(1) It is necessary to send a Company employee to the premises when the connection is made because a condition set forth in a exists, and

(T)

(2) A failure to comply with Part 68 of the Federal Communications Commission's Rules and Regulations or the Institutional Procedures for signal power control in 1 is disclosed.

(T)

A15.1.8 Connections of Terminal Equipment Specifically Exempted from the FCC Registration Program

A. (DELETED)

B. Customers may connect registered and grandfathered equipment to party line services subject to the provisions of A15.1.1 and in accordance with the following:

(T)

1. The equipment must comply with the network protection criteria of Part 68 of the FCC's Rules and Regulations.

2. It shall be the responsibility of the Customers to have their equipment modified to be compatible with party line services and to maintain the Customer-provided equipment to ensure the continuing compatibility of such equipment with party line services. Charges as specified in A15.4 will apply should a service difficulty or trouble report require a visit by a Company employee to the Customer's premises.

3. Upon request, the Company will furnish the Customer with specifications regarding ringing current and resistance of the ANI central office equipment, which would be required for the equipment to function properly.

4. The Company may make changes to their facilities without first obtaining Customer approval so long as the Company is willing to remodel the Customer premises equipment as set forth in C.2 when necessary and without charge.

(T)

A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

A15.1 Terms and Conditions (Cont'd)

(T)

A15.1.8 Connections of Terminal Equipment Specifically Exempted from the FCC Registration Program (Cont'd)

- C. Upon Customer request, the Company will provide field modification for Customer premises equipment for use with party line services when:
1. The Customer premises equipment vendor or manufacturer has provided the Customer with a written statement that the Customer premises equipment will meet the following criteria:
 - a. The Customer premises equipment is registered or grandfathered under Part 68 of the FCC's Rules for connection to single line service.
 - b. The Customer premises equipment is field modifiable to be compatible with party line services in North Carolina.
 - c. The manufacturer has supplied schematics (wiring diagrams) and all parts to the Customer necessary for field modification of the Customer premises equipment for connection to party line services.
 - d. The Customer premises equipment meets all other party line *Guidebook* conditions. (T)
 2. Connections of Customer premises equipment to party line services are permitted when:
 - a. The owner of the Customer premises equipment signs a Waiver of Liability and grants permission to the Company to modify the equipment to make it compatible.
 - b. Allows the Company to remodify the Customer premises equipment in the event of changes to Company facilities.
 - c. Such permission does not necessitate disclosure by the Company of information which is proprietary in nature.
 3. In compliance with the Registration Program, the Customer must notify the Company in advance of the connection of eligible Customer premises equipment and agrees to notify the Company when the Customer premises equipment is permanently disconnected.
 4. Modification of Customer premises equipment is limited to rearranging or changing terminations of existing leads contained within the equipment, without special training or special tools from the manufacturer, to achieve compatibility with party line services. The Company is not responsible for, and will not supply, parts for use with Customer premises equipment to be used on party line services.
 5. (DELETED)
 6. The Company may make changes to their facilities without first obtaining Customer approval so long as the Company is willing to remodify the Customer premises equipment as set forth in C.2 when necessary and without charge. (T)
 7. The Company has the right to make a test of service connected with Customer premises equipment to assure proper operations and compatibility.

A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

A15.1 Terms and Conditions (Cont'd)

(T)

A15.1.8 Connections of Terminal Equipment Specifically Exempted from the FCC Registration Program (Cont'd)

C. (Cont'd)

8. The customer will be responsible for the payment of a Trouble Location Charge as specified in A15.4 for visits by a Company employee to the customer's premises solely to determine that a service difficulty or trouble report resulting from the customer premises equipment connected to the party line service as long as the difficulty or trouble is not the result of the Company's modification or remodification of the equipment or a result of trouble in the Company network.
9. The Company shall be indemnified and saved harmless and free from any and all claims, demands, or causes of action, which arise directly or indirectly because of modification of Customer premises equipment for party line services.

D. The Company reserves the right to not allow, or to require disconnection of, a Customer premises equipment connection to any party line service for reasons including:

1. Incompatibility of Customer premises equipment with the party line services provided by the Company.
2. Connection of the Customer premises equipment to the party line services would require modifications of the service, which, in the opinion of the Company, are unwarranted.
3. Connection of the Customer premises equipment causes harm to the network and there is reason to believe this harm was a result of the connection of the Customer premises equipment.
4. Connection of Customer premises equipment violates other *Guidebook* provisions.

(T)

A15.1.9 Connections of Certain Facilities of Power, Pipe Line and Railroad Companies

A. General

1. Except as otherwise provided in B, 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, 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.

(T)

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)

- e. Such telecommunications facilities will be connected to PBX switchboards or other switching or terminal equipment of the Company, 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 telephones within the same local service area.
- 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 1.b, c or d may be established at either end of such circuit, but shall not be established at both ends simultaneously. (T)

- B.** Terminal equipment and communications systems connected to the telecommunications network in accordance with A prior to July 1, 1979 and January 1, 1980 respectively 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 A15.1.2 g. (T)

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

- A.** Except as otherwise provided in B, telecommunications facilities of the National Aeronautics and Space Administration may, in lieu of the provisions of A15.1.3 and A15.1.7, be connected by means of switching or connecting equipment to a PBX switchboard or other switching or terminal equipment of the Company, 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. (T)
- B.** Terminal equipment and communications systems connected to the telecommunications network in accordance with A, prior to July 1, 1979 and January 1, 1980 respectively 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. (T)

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, 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, 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. (T)
 2. Except as otherwise provided in B, telecommunications facilities of the U. S. Department of the Army, Navy or Air Force, other than those described in 1 may, in lieu of the provisions of A15.1.3 and A15.1.7, be connected by means of switching or connecting equipment to a PBX switchboard or other 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. (T)
- B.** Terminal equipment and communications systems connected to the telecommunications network in accordance with A prior to July 1, 1979 and January 1, 1980 respectively 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. (T)

A15.1.12 Connections of Station Lines and Facilities in Hazardous or Inaccessible Locations

- A.** Except as otherwise provided in B, service station lines, and facilities furnished by the Customer which involve hazardous or inaccessible locations, may be connected to the telecommunications network. (T)
- B.** Terminal equipment and communications systems connected to the telecommunications network in accordance with A, prior to July 1, 1979 and January 1, 1980 respectively 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. (T)(M)

A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

A15.1 Terms and Conditions (Cont'd)

(T)

(M1)

A15.1.13 U.S. Coast Guard

- A. Telephone 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.
- B. Terminal equipment and communications systems connected to the telecommunications network in accordance with A, prior to July 1, 1979 and January 1, 1980 respectively 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. (T)

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.
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. (T)
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. (M2)

M1 - Material previously appearing on this page now appears on page(s) 19 of this section.

M2 - Material appearing on this page previously appeared on page(s) 21 of this section.

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) (M)

C. Institutional Procedures for Signal Power Control (M)

1. In accordance with B.4, the Customer must comply with the following Institutional Procedures: (T)

- 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). (T)

Upon request, the Customer is required to provide proper documentation to demonstrate compliance with the requirements in this *paragraph*. (T)

- 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.

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)

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 is likely. (T)
- (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. (T)

- 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.

- c. A charge equal to the Trouble Location charge will apply when:

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

A15.2 Terminal Equipment

A15.2.1 Data Transmitting and/or Receiving Terminal Equipment

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 as specified in A15.1.2 and A15.1.3. (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 must conform with Part 68 of the Federal Communications Commission's Rules and Regulations.¹ (T)(M)

Note 1: Connection of inside wiring may also be provided in connection with one and two party basic exchange service, WATS or Private Line Service in accordance with A2.9. (T)(M)

A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

A15.2 Terminal Equipment (Cont'd)

(M1)

A15.2.3 Voice Transmitting and/or Receiving Terminal Equipment

A. *Terms and Conditions*

(T)

1. General

- a. 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)

(Filed in compliance with order dated May 20, 1948 of Federal Communications Commission in Docket No. 6787.)

- b. 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 furnished, installed and maintained by the Company for additions to Grandfathered Terminal Equipment or Communications Systems.

- c. 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. (T)

- d. 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 Reserved for Future Use

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 and A15.1.3.B.

A15.3 Communications Systems

A15.3.1 Application

- A. Communication 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 A15.1.1 and A15.1.2., A15.1.3 or A15.1.7.

A15.3.2 Reserved for Future Use

A15.3.3 Reserved for Future Use

A15.3.4 Reserved for Future Use

(M2)

A15.3.5 Reserved for Future Use

(M2)

A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

A15.4 Trouble Location Charge for Complex services (other residence and business services)¹

A15.4.1 Rates and Charges

- A. The customer shall be responsible for payment of a nonrecurring charge for each visit by the Company to the premises of the customer solely to determine that the service difficulty or trouble report results from the use of equipment or facilities located on the customer's side of the demarcation point. (C)
 - 1. Exchange and WATS service

	Non-Recurring Charge	USOC
(a) First half-hour or less of time spent on the customer's premises.	\$31.25	NA
(b) Additional half-hour or less of time spent on the customer's premises.	15.75	NA

A15.4.2 Reserved for Future Use

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 to 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.

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 provision 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 notices 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 or interference.

The customer shall be responsible for payment of a nonrecurring charge as specified in Section A15.4 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 service provided by an Other Carrier.

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 customer-provided 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.

Note 1: Trouble Location for basic residence and business is provided on a flat rate basis as specified in Non-Regulated Services –Pricing, Section N1.1, Dispatch Charge–Trouble Determination (for non-Service Plan customer).

Page 24.1 is hereby deleted in its entirety and removed from this Guidebook

A15. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

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

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. Such telecommunications services or OC-provided communications systems are utilized for the origination or termination of communications at the customer's premises where the connection is made.
 2. The connection is either through equipment which effects such connections externally to a Company-provided network control signaling unit by means of an acoustic or inductive connection for transmitting and/or receiving or through direct electrical connection in accordance with 3. (T)
 3. Where the connection with the OC-provided communications system involves direct electrical connection to the facilities furnished by the Company for telecommunications services, such connection shall be made through switching equipment provided either by the customer, by the Company or by the OC or through a channel derivation device provided by the customer or OC. Where the connection is made by means of switching equipment provided by the customer, such switching equipment and the facilities provided by the OC shall be treated as a communications system and the *terms and conditions* in Section A15.3 shall apply. Where the connection is by means of a channel derivation device provided by the customer, such channel derivation device and the facilities provided by the OC shall be treated as a communications system and the *terms and conditions* in Section A15.3 shall apply. (T)
 4. Connection may be made only if the forms of electrical communication are the same as and consistent with those for which the Company-provided service is offered. Connections are not represented as being suitable for satisfactory transmission.
 5. The rates and charges for connection to OC-provided communications systems shall be the same as those that would apply if 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.

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. CONNECTIONS OF TERMINAL EQUIPMENT AND COMMUNICATIONS SYSTEMS

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

A15.5.6 Other Carriers

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

Carrier	Tariff F.C.C. No.	N.C.U.C. No.
AT&T Communications	-	
ITT Corporate Communications Services, Inc.	1	
Microwave Communications, Inc.	1	
Satellite Business Systems	1	
Southern Pacific Communications Co.	2	
United States Transmission Systems, Inc.	1	
Western Union Telegraph Co.	254	1
Western Union Telegraph Co.	261	

A15.5.7 Responsibility of 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 otherwise affect its use or performance.

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 system or correct the violation and shall confirm in writing to the Company within ten days, following the receipt of written notice from the Company, that such 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 provisions 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

- A. Communications systems (utilizing central office connecting (facilities), not exceeding voice grade, which are provided by OCs specified in A15.5.6, (excluding International Record Carriers, listed therein) to a customer may be directly connected at the premises of the Company, with the same customer's individual exchange service, or long distance telecommunications service furnished by the Company to the same customer, provided such connections are made through individual exchange lines or PBX trunk exchange lines to permit communications via the Other Carrier-provided communications system, to or from the customer's premises located in an exchange foreign to the exchange in which the connection is made. (T)
- B. Such systems may also be directly connected at the premises of the Company with exchange service or long distance telecommunications service or WATS furnished by the Company to the same customer provided such connections are made through: Centrex Control switching equipment furnished in accordance with the Centrex service provisions of this *Guidebook* (T)
- C. Company-provided services, in accordance with 1 and 2, will be furnished at an OC terminal location in an area served by this Company and: (T)
 - 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, (as defined in this Company's Facilities for Other Carriers Tariff FCC No. 55)¹.
- D. Where service is furnished in accordance with C, 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 3.b., interoffice 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 *guidebook*. (T)
- E. The customer shall be responsible for a nonrecurring charge as specified in Section A15.4 for visits by the Company to the OC terminal location solely to determine that a service difficulty or trouble report results from the use of equipment of facilities provided by the customer, authorized user, or the OC. (T)

A15.5.10 Reserved for Future Use

A15.5.11 Reserved for Future Use

Note 1: Effective July 1, 1974, in compliance with 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

A15.6 Institutional Program for Premises Wiring Charge

A. The Institutional Program for Premises Wiring Charge as provided in A15.1.1.B.3, is comprised of the first, or a combination of both rate elements described below, as appropriate:

	Nonrecurring Charge	USOC
1. Element 1 - for the first fifteen minutes, or fraction thereof, of total time spent by Company employees on the customer's premises in related monitoring or participation in acceptance tests and/or in related inspection of premises wiring for Communications Systems subject to Part 68 of the Federal Communication Commission's Rules and Regulations, and for administrative expenses including the visit to the customer's premises.		
(a) Residence Account, first 15 minutes	\$29.75	EPC1E
(b) Business Account, first 15 minutes	33.50	EPC1E
2. Element 2 - for each additional fifteen minutes, or major fraction thereof, of total time spent by Company employees on the customer's premises in performing the related activities described in Element 1.		
(1) Residence or Business Account		
(a) Each additional 15 minutes	9.75	EPCAE

(T)