

CONNECTION OF CUSTOMER-PROVIDED EQUIPMENT

A. CONDITIONS

1. GENERAL

All connections to the network must comply with the rules and regulations of the Federal Communications Commission and the Pennsylvania Public Utility Commission. Customers must connect customer premises equipment to the network in accordance with the currently effective rules in Part 68 of the Federal Communications Rules and Regulations. (C)

The operating characteristics, use of, electrical currents impressed by and maintenance condition of customer-provided equipment, apparatus and lines shall be such that their connection and use with Telephone Company facilities will not endanger the safety of Telephone Company employees or the public; damage or require change in or alteration of facilities of the Telephone Company; impair the privacy of conversations of others, impair the operation of or otherwise interfere with the proper functioning of the telecommunications system of the Telephone Company or other connecting communications common carriers.

The customer is not permitted to create additional channels from facilities provided by the Telephone Company, or to resell, or share service with another party through extension of customer-provided channels or equipment, except as otherwise provided in this tariff. The equipment, apparatus and lines furnished by the customer must be solely connected with the Telephone Company system.

Where any customer-provided equipment or communications system is used with Telephone Company facilities in violation of any of the provisions of this tariff, the Telephone Company will take such immediate action as it deems necessary for the protection of the network, and will promptly notify the customer of the violation. The customer shall discontinue use of the equipment or correct the condition and shall confirm in writing to the Telephone Company within 10 days, following receipt of the written notice from the Telephone Company, that such use has ceased or that the violation has been

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A. CONDITIONS (Cont'd)

1. GENERAL (Cont'd)

corrected. Failure of the customer to discontinue use or to correct the violation and to give the required written confirmation to the Telephone Company within the time stated above shall constitute cause and shall result in suspension of the customer's service until such time as the customer complies with this tariff.

(C)

The provisions pertaining to connection of equipment of others do not apply to facilities of communications common carriers with whom connection is made to form a jointly furnished service under contractual agreements between the carriers.

2. Obligations Of The Customer

The connection of customer-provided equipment, apparatus and lines, as provided in this tariff, is permitted with the understanding that the customer will, at his expense:

- Provide and install all wiring from the point of connection with Telephone Company facilities and will make the actual connection to the Telephone Company connecting arrangement.
- Provide power to operate his equipment in conformity with Telephone Company specifications.
- Maintain his equipment so that it will operate within the standards set forth in this tariff and for testing to determine if trouble is caused by his equipment before requesting maintenance service by the Telephone Company.
- Limit the use of his equipment within the same standards that apply to use of a similar service furnished to other customers by the Telephone Company.

(C)

The customer shall be responsible for payment of a service maintenance charge for visits to his premises by a Telephone Company employee when the visit is necessary to determine that the service difficulty or trouble is not being caused by Telephone Company facilities.

Upon notice from the Telephone Company that the customer-provided equipment or communications system is causing or is likely to cause interference or hazard, the customer shall promptly make such changes as shall be necessary to remove or prevent such interference or hazard.

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A. CONDITIONS (Cont'd)

2. Obligations of the Customer (Cont'd)

The customer indemnifies and saves the Telephone Company harmless against claims for libel, slander, or infringement of copyright arising from the improper use of material transmitted over its facilities; against claims for infringement of patents arising from, combining with, or using in connection with facilities of the Telephone Company, apparatus or systems of the customer; and against all other claims arising out of any act or omission of the customer in connection with facilities provided by the Telephone Company.

3. Limitations of Responsibility of the Telephone Company

The telecommunications network is not represented as being adapted to the use of customer-provided equipment or communications systems and the Telephone Company shall not be responsible for: (1) the through transmission of signals generated by the customer-provided equipment or communications systems or for the quality of or defects in, such transmission; (2) the reception of signals by the customer-provided equipment or communications systems; (3) or liable for any direct, consequential, or other damages to customer or third person claimed as a result of the connection of such customer-provided equipment to the telecommunications network. (C)

The Telephone Company shall not be responsible to the customer if changes in the criteria in this tariff or changes in any of the facilities or operations or procedures of the Telephone Company render any of the customer-provided equipment or communications system obsolete or require modification of or alteration to such equipment or system or otherwise affect its use or performance, except as specified in Paragraph A.8 of this Section.

4. Network Control Signaling

Satisfactory performance of the telecommunications network requires continuing functional compatibility of the signals used to control the network and the switching equipment involved. To assure such continuing compatibility, the network control signaling (except signaling functions performed by customer-provided equipment pursuant to the provisions of A.5.c.(2) following) shall be performed by equipment furnished, installed and maintained by the Telephone Company.

5. Basis of Connection

Customer-provided terminal equipment and communications systems may be connected with the telecommunications network either by direct electrical connection or by acoustic or inductive connection. (C)

CONNECTION OF CUSTOMER-PROVIDED EQUIPMENT

A. CONDITIONS (Cont'd)

5. BASIS OF CONNECTION (Cont'd)

a. Acoustic and Inductive Connection

Customer-provided terminating equipment and communications systems may be acoustically or inductively connected to the facilities of the Telephone Company, provided that the acoustic or inductive connection is made externally to a network control signalling unit. (C)

b. Direct Electrical Connection

Direct electrical connection of customer-provided terminal equipment and communications systems with facilities of the Telephone Company may be made only through a network control signalling unit and connecting arrangement. (C)

c. Exceptions

(1) Attested Customer-Provided Terminal Equipment

- (a) In lieu of the requirements set forth in Paragraph A.5.b. preceding relating to Telephone Company Voice Connecting Arrangements, customer-provided terminal equipment as listed in (f) following, which meets the equipment standards and procedures set forth in Bell System Technical References, may be used with facilities provided by the Telephone Company. (C)

- (b) Manufacturers or suppliers of such equipment must submit in writing an attested affidavit that their equipment is in compliance with the standards and procedures set forth in the Bell System Technical References. Upon satisfaction of the requirements, the American Telephone and Telegraph Company will arrange for an Identification Number to be issued to the manufacturer or supplier. The Identification Number must be clearly indicated on each item of equipment pursuant to this regulation.

- (c) The customer must provide the FCC identification number to the Telephone Company only upon the request of the Telephone Company.

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A. CONDITIONS (Cont'd)

5. BASIS OF CONNECTION (Cont'd)

c. Exceptions (Cont'd)

(1) Attested Customer-Provided Terminal Equipment (Cont'd)

(d) Such terminal equipment may not:

- (d.1.) Be connected to a source of electrical power which is external to the telephone network; or
- (d.2.) Be grounded; or
- (d.3.) Perform any network control signalling function prior to and including the establishment of the intended transmission path; or
- (d.4.) Have amplification in the transmission path (other than headsets with the maximum gain limited so that the output power meets criteria set forth in A.6.a; or
- (d.5.) Use wiring between the customer's terminal device and the customer's plug-in connection that is permanently stapled or otherwise affixed to walls or other supports at the site of installation.

(C)

- (e) Customer-provided terminal equipment which, in fact, does not meet the equipment standards and procedures set forth by the Telephone Company, even though attested by the manufacturer, may not be used with the services of the Telephone Company except in accordance with the provisions of Paragraphs A.6.a. or A.6.b.

(f) Terminal Equipment (with valid Identification Number)

- (f.1.) Headsets
- (f.2.) Non-Powered Conferencing Equipment

(2) Conforming Answering Devices

- (a) A conforming answering device may be connected to facilities furnished by the Telephone Company only in accordance with (a.1.) through (a.7.) following.

CONNECTION OF CUSTOMER-PROVIDED EQUIPMENT

A. CONDITIONS (Cont'd)

5. BASIS OF CONNECTION (Cont'd)

c. Exceptions (Cont'd)

(2) Conforming Answering Devices (Cont'd)

- (a.1.) The customer shall notify the Telephone Company of his intention to connect a conforming answering device. Such notification shall include the location at which the conforming answering device is to be used as well as the conformance number of the conforming answering device.
- (a.2.) The conforming answering device shall not be used to transmit or receive data signals.
- (a.3.) The conforming answering device shall not be used to originate calls.
- (a.4.) The conforming answering device shall be operated and maintained in accordance with those instructions furnished with such conforming answering device as required by the Bell System technical reference for conforming answering devices.
- (a.5.) The conforming answering device shall comply with the minimum network protection criteria set forth in A.6.a. following.
- (a.6.) The conforming answering device shall not be used with Pay Telephone Line Service. (C)
- (b) In the event that an answering device bearing a conforming number does not meet the requirements of the Bell System technical reference for conforming answering devices, the customer using such answering device shall either disconnect the device or arrange for the connection of the device in accordance with A.6.a. or A.6.b.

CONNECTION OF CUSTOMER-PROVIDED EQUIPMENT

A. CONDITIONS (Cont'd)

6. Network Protection Criteria

To protect the telecommunications network and the services furnished to the public by the Telephone Company from harmful effects, the customer-provided equipment or communications system must comply with the following minimum network protection criteria.

(a) Direct Electrical Connections

- (1) To prevent excessive noise and cross talk in the network, it is necessary that the power of the signal at the serving central office of the Telephone Company shall not exceed 12 db below one milliwatt when averaged over any three-second interval. To permit each customer, independent of distance from the central office, to supply signal power which approximates the 12 db below one milliwatt limit at the central office, the power of the signal which may be applied by the customer-provided equipment to the Telephone Company interface located on the customer's premises will be specified for each customer location and for each type of connecting arrangement, 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 customer-provided equipment to the Telephone Company interface located on the customer's premises meet the following limits:
 - The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18 db below the power of the signal specified in the preceding paragraph.
 - The power in the band from 4,000 Hertz to 10,000 Hertz shall not exceed 16 db below one milliwatt.
 - The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24 db below one milliwatt.
 - The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36 db below one milliwatt.
 - The power in the band above 40,000 Hertz shall not exceed 50 db below one milliwatt.

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A. CONDITIONS (Cont'd)

6. Network Protection Criteria (Cont'd)

a. Direct Electrical Connections (Cont'd)

- (3) To prevent interruption or disconnection of a call or interference with network control signaling, it is necessary that the signal applied by the customer-provided equipment to the Telephone Company interface located on the customer's premises at no time have energy solely in the 2,450 to 2,750 Hertz band. If signal power is to be in the 2,450 to 2,750 Hertz band, it must not exceed the power present at the same time in the 800 to 2,450 Hertz band.

b. Acoustic or Inductive Connections

- (1) To prevent excessive noise and cross talk in the network, it is necessary that the power of the signal which is applied by the customer-provided equipment to the network control signaling unit located on the customer's premises be limited so that the signal power at the output of the network control signaling unit (i.e., at the input to the Telephone Company line) does not exceed 9 db 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 12 db below one milliwatt when averaged over any three-second interval, the Telephone Company, at the customer's request, will specify for each customer location, the signal power at the output of the network control signaling unit (i.e., at the input to the Telephone Company line), which shall in no case exceed one milliwatt.
- (2) To protect other services, the criteria in A.6.a.(2) apply.
- (3) To prevent interruption or disconnection of a call or interference with network control signaling, the criteria in A.6.a.(3) apply.

7. Accessories

Customer-provided accessories may be used by the customer in connection with his use of Telephone Company facilities provided that the accessories do not create a hazard or interfere in any way with the service provided by the Telephone Company.

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CONNECTION OF CUSTOMER-PROVIDED EQUIPMENT

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B. RECORDING, REPRODUCING AND AUTOMATIC ANSWERING AND RECORDING EQUIPMENT (C)

1. CONDITIONS

* * * (C)

Customer-provided equipment shall not be used to interconnect any line or facility of the Telephone Company except for the broadcasting of a recording of a telephone conversation during the period of recording via a radio or television station; and provided that in the interest of protecting the privacy of telephone service, the recording is made in accordance with the regulations set herein.

Recording of Two-Way Telephone Conversations:

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

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Obligation of the Customer:

For purposes of identification, subscribers to telephone service who transmit recorded public announcements over facilities provided by the Telephone Company must include in the recorded message the name of the organization or individual responsible for the service and the address at which the service is provided. Customers transmitting factual public announcements such as Time, Weather, Stock Market quotations, Airline Schedules and similar information are excluded from the preceding condition.

Customer-provided recording, reproducing and automatic answering and recording equipment may be connected with facilities of the Telephone Company only when and for so long as the customer subscribes to a sufficient number of telephone lines to handle adequately the volume of telephone calls received without interfering with any of the services offered by the Telephone Company. In the event that the use of customer-provided equipment causes such interference, the Telephone Company shall have the right to discontinue service without prior notification to the customer.

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* * * (C)

C. VOICE COMMUNICATIONS SYSTEMS (C)

The equipment listed in this section will not be provided effective September 19, 1982. (C)

Customer-provided voice communications systems, including channels, may be connected with facilities furnished by the Telephone Company, on a voice grade basis, (approximate bandwidth 300 - 3,000 Hertz), for telecommunications service under the following conditions.

1. CONDITIONS

Customer-provided communications systems may be connected or switched at a service point of the customer with local or long distance telecommunications service of the Telephone Company through customer-provided equipment which effects such connections by means of acoustic or inductive coupling.

Customer-provided voice communications systems shall comply with the minimum network protection criteria in A. preceding.

* * * (C)

Connection of circuits or channels from a customer-provided communications system may be established with the telecommunications network or with facilities of other communications common carriers at either end of the customer's circuits, but shall not be connected at both ends simultaneously to form a through circuit.

* * * (C)

2. CONNECTIONS OF CERTAIN FACILITIES OF POWER, PIPE LINE AND RAILROAD COMPANIES

Telephone facilities of an electric power company or oil, oil products or natural gas pipe line company, or railroad company provided primarily to communicate with points located along a right-of-way (including premises of such company anywhere in cities, towns or villages along the right-of-way) owned or controlled by such company may, in lieu of the preceding provisions, be connected with telecommunications service, for the following purposes:

(a) In cases of emergency involving safety of life or property;

(1) In addition, in cases of calls originated by railroad employees under circumstances indicating need for prompt action to secure or maintain the safety, continuity or reliability of railroad service to the public, and related to the movement of passengers, mail, property, or equipment by railroad, or the repair, maintenance or construction of railroad right-of-way, structures or equipment;

(b) In cases where the customer's facilities serve locations where it is impracticable because of hazard or inaccessibility for the Telephone Company to furnish its facilities;

* * * (C)

Connection of a telephone circuit of such companies as specified in (a) (1), or (b) preceding may be established at either end of such circuit, but shall not be established at both ends simultaneously. (C)

(C) Indicates Change

Issued: November 30, 1990

Effective: February 1, 1991

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* * * (C)

C. VOICE COMMUNICATIONS SYSTEMS (Cont'd) (C)

3. CONNECTIONS OF CERTAIN FACILITIES OF THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Telephone facilities of the National Aeronautics and Space Administration may, in lieu of the preceding provisions, be connected by means of switching or connecting equipment furnished by the Telephone 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 Telephone Company in writing that such connection is required for the control of space vehicles. Such Department telephone facilities will be connected with telecommunications service furnished by the Telephone Company 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 Telephone Company to furnish its facilities.

4. CONNECTIONS OF CERTAIN FACILITIES OF THE U.S. ARMY, NAVY AND AIR FORCE

Facilities of a telephone system of the U.S. Department of the Army, Navy or Air Force which serves an establishment operated and administered under the direction of the Department and commanded by authorities of such establishment, may, in lieu of the preceding provisions, be connected with telecommunications service where the Secretary of the Department certifies in writing that reasons of military necessity require that the establishment be served by a telephone system of the Department. In addition, the facilities of a temporary telephone system of such Department located off a permanent establishment of the Department for maneuvers, mobilization tests or technical service tests will be so connected.

Telephone facilities of the U.S. Department of the Army, Navy or Air Force, other than those described in the above paragraph, may, in lieu of the preceding provisions, be connected by means of switching or connecting equipment furnished by the Telephone Company, to a PBX switchboard or other telephone switching or terminal equipment, where the Secretary of the Department or his authorized representative notifies the Telephone Company in writing that such connection is required for reasons of military necessity. Such Department telephone facilities will be connected with telecommunications service 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 Telephone Company to furnish its facilities.

* * * (C)

Connecting arrangements will be furnished, installed and maintained by the Telephone Company at rates based upon the costs of providing the service.

(C) Indicates Change

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(Reserved for Future Use)

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