
CONNECTIONS OF GRANDFATHERED TERMINAL EQUIPMENT AND GRANDFATHERED COMMUNICATIONS SYSTEMS**Direct Connections****A. 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:

1. 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;
2. All such connections are made through Company-provided standard jacks or are otherwise connected by the Company;
3. And all such connections shall comply with the minimum protection criteria described later in this Section.

B. Grandfathered Communications Systems

Grandfathered communications systems may remain directly connected and be moved and reconnected to the telecommunications network for the life of the equipment without registration and may be modified only in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations, subject to the following:

1. All such connections shall comply with the minimum protection criteria described later in this Section.
2. No changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.
3. Premises wiring shall conform to Part 68 of the Federal Communications Commission's Rules and Regulations.
4. 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.
5. All such connections are made through Company-provided standard jacks or are otherwise connected by the Company.

CONNECTIONS OF GRANDFATHERED TERMINAL EQUIPMENT AND GRANDFATHERED COMMUNICATIONS SYSTEMS (cont'd)**Direct Connections (cont'd)****B. Grandfathered Communications Systems (cont'd)**

6. Additions to grandfathered communications systems may be made without registration of any additional equipment involved if:
 - a. Equipment so added is being reconnected, i.e., was previously directly connected prior to January 1, 1980, in accordance with Company Tariffs; and
 - b. Such additions comply with the provisions of B.1. through 5. preceding.

C. Terminal equipment and communications systems connected to the telecommunications network via grandfathered protective circuitry are subject to the provisions of a. and b. preceding.**Connections through Connecting Arrangements Provided by the Company****A. General**

1. Basis of Connection
 - a. Grandfathered connections of terminal equipment and grandfathered connections of communications systems made in accordance with paragraphs B. and C. above, 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, at the rates and charges specified in 'Connecting Arrangement Charges' found later in this Section.
 - b. 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 paragraph B. described in Part 2, Section 9. Company-provided connecting arrangements are furnished for the connection of such systems at the rates and charges specified in 'Connecting Arrangement Charges' found later in this Section.
 - c. 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.
 - d. Except as otherwise provided in paragraph B. described in Part 2, Section 9, installations of new connecting arrangements will not be made (1) after July 1, 1979 for connection of terminal equipment, (2) after January 1, 1980 for connection of communications systems. Treatment with respect to grandfathered installations which include such connecting arrangements is covered in this Section of the Guidebook.

CONNECTIONS OF GRANDFATHERED TERMINAL EQUIPMENT AND GRANDFATHERED COMMUNICATIONS SYSTEMS (cont'd)

Connections through Connecting Arrangements Provided by the Company (cont'd)

B. Grandfathered Connections of Terminal Equipment

1. Data Terminal Equipment
 - a. Subject to the provisions of A.1.a. preceding, data terminal equipment (including telephotograph equipment) may be connected at the customer's premises to the telecommunications network through a data access arrangement provided by the Company in accordance with the following:
 - b. The customer shall furnish the equipment which performs the functions of:
 1. conditioning the data signals generated by the terminal equipment to signals suitable for transmission by means of Company service and;
 2. conditioning signals transmitted by means of Company services to data signals suitable for reception by the equipment.
 - c. The data terminal equipment must comply with the minimum protection criteria found later in this Section.
 - d. 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.

CONNECTIONS OF GRANDFATHERED TERMINAL EQUIPMENT AND GRANDFATHERED COMMUNICATIONS SYSTEMS (cont'd)

Connections through Connecting Arrangements Provided by the Company (cont'd)

B. Grandfathered Connections of Terminal Equipment (cont'd)

1. Data Terminal Equipment (cont'd)

e. Data Access Arrangement Charges

Installations of new data access arrangements for terminal equipment will not be made after July 1, 1979.

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Installation Charge</u>	<u>Service Charge</u>
Manual Connecting Arrangement ^{/1/} For connection of Data Transmitting and Receiving Equipment. Basic arrangement for manual operation, each.....	CDT	\$6.60	\$30.00 ^{/2/}	\$7.15
Automatic Connecting Arrangement Arrangement for unattended sending and receiving through a contact closure type control interface, each	CBT++	8.70	30.00 ^{/2/}	7.15
Arrangement for unattended sending and receiving through a voltage type control interface, each	CBS++	12.00	30.00 ^{/2/}	7.15

/1/ The customer must provide all the electrical power necessary for the operation of customer-provided Data Transmitting and/or Receiving Equipment and associated line to the Data Access Arrangement.

/2/ Installation charge does not apply when installed at the same time as the telephone service with which it is associated.

CONNECTIONS OF GRANDFATHERED TERMINAL EQUIPMENT AND GRANDFATHERED COMMUNICATIONS SYSTEMS (cont'd)

Connections through Connecting Arrangements Provided by the Company (cont'd)

B. Grandfathered Connections of Terminal Equipment (cont'd)

2. Voice Terminal Equipment

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

- a. The connection shall be made through a connecting arrangement furnished by the Company. In accordance with 'Attested Equipment Connected Prior to July 1, 1980' and 'Conforming Answering Devices Connected Prior to July 1, 1979' found later in this Section, a connecting arrangement is not required for the connection of Attested Equipment or Conforming Answering Devices.
- b. 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.
- c. The voice terminal equipment must comply with the minimum protection criteria found later in this Section.

C. Grandfathered Connections of Communications Systems

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

1. The connection shall be through a connecting arrangement furnished by the Company.
2. The provisions relating to minimum protection criteria found later in this Section shall apply to the connection of communications systems.

CONNECTIONS OF GRANDFATHERED TERMINAL EQUIPMENT AND GRANDFATHERED COMMUNICATIONS SYSTEMS (cont'd)

Minimum Protection Criteria for Electrical Connections

- A. To prevent excessive noise and crosstalk in the network, it is necessary that the power of the signal at the central office not exceed 12dB below one milliwatt when averaged over any three second interval. To insure that this limit is not exceeded the power of the signal which may be applied by the equipment to the Company demarcation point located at the customer's premises will be specified for each customer location but in no case shall it exceed one milliwatt.

- B. To protect other services, it is necessary that the signal which is applied by the equipment to the Company demarcation point located at the customer's premises meet the following limits:
 - 1. The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18dB below the power of the signal as specified in A. above.
 - 2. The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16dB below one milliwatt.
 - 3. The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24dB below one milliwatt.
 - 4. The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36dB below one milliwatt.
 - 5. The power in the band above 40,000 Hertz shall not exceed 50dB below one milliwatt.

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

CONNECTIONS OF GRANDFATHERED TERMINAL EQUIPMENT AND GRANDFATHERED COMMUNICATIONS SYSTEMS (cont'd)

Attested Equipment Connected Prior to July 1, 1980

- A. Until July 1, 1980, headsets and non-powered conferencing equipment which meet the standards and procedures set forth by the Company in Technical References for Attested Equipment may be connected at the customer's premises to the telecommunications network in accordance with A.1. through A.5. following. Such equipment may remain connected and be moved and reconnected in accordance therewith for the life of the equipment unless subsequently modified.
1. The connection shall be made through an interface termination provided by the Company.
 2. The Identification Number issued by the Company to the manufacturer or supplier must appear on each unit of Attested Equipment utilized.
 3. Customers must notify the Company of their intention to connect Attested Equipment. Such notification must include the Identification Number of the equipment and the location at which that equipment is to be used.
 4. Attested Equipment may not be connected to a source of electrical power which is external to the telecommunications network; be grounded; perform any network control signaling functions prior to and including the establishment of the intended transmission path; have amplification in the transmission path (other than single ended terminal devices with the maximum gain limited so that the output power meets the minimum protection criteria set forth in in the preceding paragraph); and use wiring external to such equipment that is permanently affixed at the site of the installation other than portable connections compatible with interface terminations provided by the Company.
 5. Attested Equipment must comply with the minimum protection criteria set forth in the preceding paragraph.
- B. In the event Attested Equipment bearing an Identification Number does not meet the requirements set forth by the Company in its Technical References, the customer using such Attested Equipment shall disconnect the equipment from the Company service.

CONNECTIONS OF GRANDFATHERED TERMINAL EQUIPMENT AND GRANDFATHERED COMMUNICATIONS SYSTEMS (cont'd)

Conforming Answering Devices Connected Prior to July 1, 1979

- A. Conforming Answering Devices which meet the standards and procedures set forth by the Company in Technical References for Conforming Answering Devices and which were connected at the customer's premises to the telecommunications network prior to July 1, 1979, in accordance with A.1. through A.5. following, may remain connected and be moved and reconnected in accordance therewith for the life of the equipment, unless subsequently modified.
1. Customers shall notify the Company of their intention to connect Conforming Answering Devices. Such notification shall include the location at which the Conforming Answering Device is to be used as well as its Conformance Number.
 2. The Conforming Answering Device shall only be connected by means of a jack or jack arrangement provided by the Company.
 3. The Conforming Answering Device shall be operated and maintained in accordance with those instructions furnished with such Conforming Answering Device as required by the Company's Technical Reference for Conforming Answering Devices.
 4. Conforming Answering Devices may not be used to transmit or receive data signals; be used with public or semipublic coin telephone service; and be used to originate calls.
 5. The Conforming Answering Device shall comply with the minimum protection criteria set forth in the preceding paragraph.
- B. In the event that an answering device bearing a Conformance Number does not meet the requirements of the Company's Technical Reference for Conforming Answering Devices, the customer using such answering device shall disconnect the device from the Company service.

CONNECTIONS OF GRANDFATHERED TERMINAL EQUIPMENT AND GRANDFATHERED COMMUNICATIONS SYSTEMS (cont'd)

Connecting Arrangement Charges

A. Manual Connecting Arrangements

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Installation Charge</u>	<u>Service Charge</u>
Recorder Connector Equipment				
For the connection of attended recording equipment with the facilities of the Company				
- With an automatic recorder tone device ^{/1/}	RCT	\$3.30	---	\$7.15
- With an automatic recorder tone device and amplifier-filter unit	RCZ	8.30	\$30.00 ^{/2/}	7.15

B. Automatic Connecting Arrangements

Recorder Coupler Equipment				
For the connection of attended and unattended recording, reproducing, and automatic answering and recording equipment with the facilities of the Company				
- Per line equipped	RDL	8.30	30.00	7.15
- To provide two-way simultaneous transmission				
Per line equipped	RDM	7.85	46.00	7.15

/1/ The customer must provide all the electrical power necessary for the operation of customer-provided voice transmitting and/or receiving and communications systems equipment and associated line to the Connecting Arrangement.

/2/ No installation charge applies for portable recorder-connector equipment where permanent recorder-connector equipment is installed at the time the jack for portable equipment is removed.

CONNECTIONS OF GRANDFATHERED TERMINAL EQUIPMENT AND GRANDFATHERED COMMUNICATIONS SYSTEMS (cont'd)

Connecting Arrangement Charges (cont'd)

B. Automatic Connecting Arrangements (cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Installation Charge</u>	<u>Service Charge</u>
Alarm Coupler ^{/1/,/2/,/3/,/4/} The Alarm Coupler is to be used only with an Alarm Reporting System, each coupler.....	CAU	\$ 5.80	\$30.00	\$7.15
Voice connecting arrangement to provide for connection of answer-only terminal equipment: - Per line equipped where two-way transmission is required.....	RDMZR	7.10	30.00	7.15
- Per line equipped where an automatic volume limited receive signal is required.....	RDY	8.70	30.00	7.15
Voice connecting arrangement to provide for connection of originate only or originate and answer terminal equipment - Per line equipped.....	SU6AQ	6.60	30.00	7.15

/1/ Guidebook rates and charges apply to all lines and equipment associated with this service.
/2/ The Alarm Coupler is intended for use with one-party telephone service only where the called number can be dialed directly, without the assistance of an operator.
/3/ The detection device must be designed to work satisfactorily with Company facilities. The customer, by acceptance or continuance of this service, agrees to indemnify and save and hold harmless the Company against all loss or damage to any person or property occurring from the use of the Alarm Coupler. The Company may require a subscriber to sign a separate written indemnification covering the above agreement. Failure of the Company to request, or of the customer to sign such a separate written indemnity agreement shall not affect the responsibility of the customer or the rights of the Company as set forth in this Guidebook.

CONNECTIONS OF GRANDFATHERED TERMINAL EQUIPMENT AND GRANDFATHERED COMMUNICATIONS SYSTEMS (cont'd)

Connecting Arrangement Charges (cont'd)

B. Automatic Connecting Arrangements (cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Installation Charge</u>	<u>Service Charge</u>
Voice connecting arrangement to provide for the connection of dial pulse dialers - Per line equipped	SU7QW	\$6.60	\$30.00	\$7.15
Voice connecting arrangement to provide for automatic connection of terminal equipment and systems - Per line equipped	STP	10.80	37.00	7.15
Connecting arrangement which provides for connection of a DC power source to supply power to Company-provided voice connecting arrangements - Per connecting arrangement ^{/1/}	VCP48	1.70	30.00 ^{/2/}	---
Automatic voice connecting arrangement to provide for connection of automatic telephone answering devices to exchange access lines - Per line equipped	GTS	4.55	30.00	7.15
Connecting arrangement to permit connection of switching equipment and attendant position(s) to an exchange access line. - Per connecting arrangement provided in connection with two-way service (outward only from switching equipment)	CDH	9.95	30.00	7.15

/1/ Obsolete--applicable to existing installations at existing locations for existing customers.

/2/ Installation charge does not apply if this unit is installed with initial installation of associated voice connecting arrangements.

**CONNECTIONS WITH U.S. GOVERNMENT EXECUTIVE DEPARTMENTS AND AGENCIES
EQUIPMENT^{/1/}**

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 in lieu of such station equipment, subject to the regulations and conditions stated below:

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 government equipment shall be so constructed, maintained and operated as to work satisfactorily with the facilities of the Company.
3. The connection shall be made by means of connecting equipment or arrangements furnished by the Company, subject to the provisions of 'Connections Through Connecting Arrangements Provided by the Company' found previously in this Section.
4. Effective January 1, 1980, 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 1., 2. and 3. preceding must conform with Part 68 of the Federal Communications Commission's Rules and Regulations.

/1/ Obsolete - applicable to existing installations at existing locations for existing customers.