4. Connections of Customer Premises Equipment to the Telecommunications Network

4.1 Responsibility of Verizon

Rates and charges for services explained herein are contained in Part F, Section 1.4.

4.1.1	Provision of Service
A.	The responsibility of Verizon is limited to the furnishing of service components suitable for telecommunications services and for the design, maintenance, and operation of service components in a manner proper for such services. Subject to this responsibility, Verizon is not responsible for the following incidents.
1.	The through transmission of signals generated by terminal equipment or multi-line terminating systems or for the quality of, or defects in, transmission.
2.	The reception of signals by terminal equipment or multi-line terminating systems.
3.	Address signaling where the signaling is performed by tone-type signaling equipment.
B.	Verizon may make changes in its telecommunications services, equipment, operations, or procedures where it is not inconsistent with Part 68 of the FCCs rules and regulations. If the changes can be reasonably expected to render any terminal equipment or multi-line terminating system incompatible with telecommunications services, or require modification or alteration of the terminal equipment or multi-line terminating system, or otherwise materially affect its use or performance, the customer will be given adequate notice, in writing, to allow maintenance of uninterrupted service.
C.	Verizon 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.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.2 Responsibility of the Customer

4.2.1	Provision of Service
A.	The customer, authorized user, or joint user is responsible for the installation, operation, and maintenance of any terminal equipment, multi-line terminating systems or premises wire.
1.	No combinations of terminal equipment, multi-line terminating systems or premises wire can require or cause the following to occur.
a.	Require change in or alteration of the equipment or services of Verizon
b.	Cause electrical hazards to Verizon personnel
c.	Cause damage to Verizon equipment
d.	Cause malfunction with Verizon billing equipment
e.	Cause degradation of service to persons other than the users of the terminal equipment or multi-line terminating systems.
2.	Upon notice from Verizon that terminal equipment, multi-line terminating systems or premises wire is causing hazard, damage, malfunction, or degradation of service, the customer, authorized user, or joint user must make necessary changes to remove or prevent hazard, damage, malfunction, or degradation of service.

4.2.2	Liability
A.	The customer indemnifies and saves Verizon harmless against the following claims.
1.	Claims for libel, slander, or the infringement of copyright arising from or in connection with the material or subject matter transmitted
2.	Claims for the infringement of patents arising from combining with, or using in connection with, facilities of Verizon, apparatus and systems furnished by the customer
3.	All other claims arising out of any act or omission of the customer in connection with facilities furnished by Verizon.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.3 Connections of Registered Equipment

4.3.1	Registered Terminal Equipment and Registered Multi-line Terminating Systems
Terminal equipment, protective circuitry, and multi-line terminating systems that are registered may be directly connected at the customer's premises to the telecommunications network subject to Part 68 of the FCCs rules and regulations, and the following.	
A.	All combinations of registered equipment and associated nonregistered terminal equipment (including but not limited to wiring) must be installed, operated, and maintained so that the requirements of Part 68 are continually satisfied.
B.	Verizon may discontinue service or impose other remedies as provided for in Part 68 for failure to comply with these provisions.
C.	The customer must notify Verizon of each line to which registered equipment is to be connected in advance of the connection, and notify Verizon when registered equipment is permanently disconnected.
1.	The customer must provide Verizon the registration number and ringer equivalence number of the registered equipment and the Universal Service Order Code (USOC) of Verizon provided standard jack required.
2.	The customer must also provide, when appropriate, the off premises station port signaling capability of the PBX system.
D.	The customer cannot connect registered equipment to a Verizon line under the following situations.
1.	If the ringer equivalence of the 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 Verizon.
2.	If the ringer-type is not designated by Verizon as suitable for that particular line.
E.	Unless a specific waiver has been granted by the FCC, or except as otherwise provided in Item 1, all connections of registered equipment to services furnished by Verizon must be made through Verizon provided standard jacks; or, in the case of registered multi-line terminating systems, through standard jacks wired in other than a standard manner, when nonstandard wiring of the jack is agreed to by Verizon.
1.	The requirement for the use of a standard jack is waived for registered equipment located in hazardous or inaccessible locations.
F.	The customer must subscribe to a sufficient number of lines to adequately handle the volume of calls so that the number of incoming calls from the general public to the customer at any one time does not cause impairment, disruption, or deterioration of other telephone services.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.3 Connections of Registered Equipment

4.3.2	Premises Wiring Associated with Registered Multi-line Terminating Systems
A.	Premises wiring is wiring that connects separately housed equipment entities or system components to one another, or wiring that connects an equipment entity or system component with the telephone network interface located at the customer's premises, and not within an equipment housing.
1.	**Fully-protected** premises wiring is that wiring which meets the following conditions.
a.	Is no greater than 25 feet in length (measured linearly between the points where it leaves equipment or connector housings) and registered as a component of, and supplied to the user with, the registered terminal equipment or protective circuitry with which it is to be used.
b.	Is a cord which complies with the preceding paragraph 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.
c.	Is 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 FCCs rules and regulations.
d.	Is electrically connected behind registered equipment, system components, or protective circuitry which assures 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.
2.	**Protected** premises wiring requiring acceptance testing for imbalance is electrically connected behind registered equipment, system components, or circuitry which assures that electrical contact between the wiring and commercial power wiring will not result in hazardous voltages at the telephone network interface.
3.	**Unprotected** premises wiring is all other premises wiring.
B.	Customers who intend to connect premises wiring, other than fully-protected premises wiring, to the telephone network must give advance notice to Verizon in accordance with the procedures specified in Part 68 or as otherwise authorized by the FCC.
C.	Verizon may invoke the extraordinary procedures specified in Part 68 where one or more of the following conditions are present.
1.	Information provided in the supervisor's affidavit gives reason to believe that a violation of Part 68 is likely.
2.	A failure has occurred during acceptance testing for imbalance.
3.	Harm has occurred, and there is reason to believe that this harm was a result of wiring operations performed under Part 68.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.3 Connections of Registered Equipment

4.3.2	Premises Wiring Associated with Registered Multi-line Terminating Systems
D.	Verizon 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.

4.3.3	Connections Involving National Defense and Security
A.	In certain cases, Part 68 of the FCCs rules and regulations permit the connection of nonregistered terminal equipment or multi-line terminating systems to the telecommunications network, provided that the Secretary of Defense, the head of any other governmental department (having requisite FCC approval), or their authorized representative certifies the following in writing to Verizon.
1.	That the connection is required in the interest of national defense and security.
2.	That the equipment to be connected either complies with the technical requirements of Part 68 or will not cause harm to the telecommunications network or Verizon employees.
3.	That the work is supervised by an installation supervisor who meets the qualifications stated in Part 68.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.4 Connections of Grandfathered Terminal Equipment and Multi-line Terminating Systems

Terminal equipment and multi-line terminating systems connected to the telecommunications network via grandfathered protective circuitry are subject to Section 4.4.1 and Section 4.4.2.

4.4.1	Direct Connections–Grandfathered Terminal Equipment
A.	Grandfathered terminal equipment may remain directly connected, be moved and reconnected to the telecommunications network for the life of the equipment without registration, or may be modified only in accordance with Part 68 of the FCCs rules and regulations, subject to the following.
1.	The customer notifies Verizon when the grandfathered terminal equipment is to be connected, or permanently disconnected. The notification must include a description of the equipment including the manufacturer's name, model number, and type of equipment.
2.	All connections are made through Verizon provided standard jacks or are otherwise connected by Verizon.
3.	When an answering device is used for public announcement purposes in association with more than one line, the lines to handle the calls received are furnished as announcement lines.
4.	The customer must subscribe to a sufficient number of lines to adequately handle the volume of calls so that the number of incoming calls from the general public to the customer at any one time does not cause impairment, disruption, or deterioration of other telephone services.
5.	All connections must comply with the minimum protection criteria set forth in Section 4.4.6.

4.4.2	Direct Connections–Grandfathered Multi-line Terminating Systems
A.	Grandfathered multi-line terminating systems may remain directly connected, be moved and reconnected to the telecommunications network for the life of the equipment without registration, or may be modified only in accordance with Part 68 of the FCCs rules and regulations, subject to the following conditions.
1.	The customer notifies Verizon when multi-line terminating systems are to be connected or permanently disconnected. The notification must include a description of the equipment including the manufacturer's name, model number, and type of equipment.
2.	All connections are made through Verizon provided standard jacks or are otherwise connected by Verizon.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.4 Connections of Grandfathered Terminal Equipment and Multi-line Terminating Systems

4.4.2	Direct Connections–Grandfathered Multi-line Terminating Systems
A.	(Continued)
3.	All connections must comply with the Minimum Protection Criteria set forth in Section 4.4.6.
4.	Premises wiring must conform to Part 68.
5.	No changes may be made to equipment so connected except by the manufacturer, or a duly authorized agent of the manufacturer.
6.	Additions to grandfathered multi-line terminating systems may be made without registration of the additional equipment involved if the following conditions are also met.
a.	Equipment being added is reconnected (i.e., was directly connected prior to January 1, 1980, or May 1, 1983 for certain private line services), in accordance with any Verizon's tariff.
b.	The additions comply with the provisions of Section 4.4.2A1 through Section 4.4.2A4.
7.	Additions of registered equipment to grandfathered multi-line terminating systems are subject to provisions of Section 4.3.

4.4.3	Connections Through Connecting Arrangements Provided by Verizon
A.	Grandfathered connections of terminal equipment and grandfathered connections of multi-line terminating systems made in accordance with Section 4.4.1 and Section 4.4.2 may remain connected, be moved and reconnected for the life of the equipment, or may be modified only in accordance with Part 68 of the FCCs rules and regulations.
1.	Connecting arrangements used for moves and reconnections will continue to be provided by Verizon, subject to their availability.
B.	Customer provided communications systems not subject to Part 68 may be connected in accordance with Section 4.5. Verizon provided connecting arrangements are furnished for the connection of these systems.
C.	Separate, identifiable, and discrete protective circuitry (i.e., connecting arrangements) used for grandfathered connections of multi-line terminating 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.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.4 Connections of Grandfathered Terminal Equipment and Multi-line Terminating Systems

4.4.3	Connections Through Connecting Arrangements Provided by Verizon
D.	**Network Control Signaling i**s performed by equipment furnished, installed, and maintained by the customer. Signaling functions may be performed by conforming answering devices as specified in Section 4.4.5.
E.	**Grandfathered Connections of Data Terminal Equipment—** Subject to the provisions of Section 4.4.3A, data terminal equipment may be connected at the customer's premises to the telecommunications network through a data access arrangement provided by Verizon in accordance with the following conditions.
1.	The customer furnishes the equipment to perform the functions of conditioning the data signals generated by the terminal equipment to signals suitable for transmission by means of Verizon signals, and conditioning signals transmitted by means of Verizon services to data signals suitable for reception by the terminal equipment.
2.	The data terminal equipment must comply with the minimum protection criteria specified in Section 4.4.6.
3.	When a data access arrangement is furnished in connection with terminal equipment used for both voice and data communication, the data access arrangement may be used to connect the terminal equipment for voice communication.
F.	**Grandfathered Connections of Voice Terminal Equipment—** Subject to the provisions of Section 4.4.3A, voice terminal equipment may be connected at the customer's premises to the telecommunications network in accordance with the following conditions.
1.	The connection is made through a connecting arrangement furnished by Verizon. In accordance with Section 4.4.4 and Section 4.4.5, a connecting arrangement is not required for the connection of attested equipment or conforming answering devices.
2.	When a data access arrangement is furnished in connection with terminal equipment used for both voice and data communication, the data access arrangement may be used to connect the terminal equipment for voice communication.
3.	When an answering device is used for public announcement purposes in association with more than one telephone line, the lines to handle the calls received are furnished as announcement lines.
4.	The customer must subscribe to a sufficient number of lines to adequately handle the volume of telephone calls so that the number of incoming calls from the general public to the customer at any one time does not cause impairment, disruption, or deterioration of other telephone services.
5.	The voice terminal equipment must comply with the minimum protection criteria.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.4 Connections of Grandfathered Terminal Equipment and Multi-line Terminating Systems

4.4.3	Connections Through Connecting Arrangements Provided by Verizon
G.	**Grandfathered Connections of Multi-line Terminating Systems—** Subject to the provisions of Section 4.4.3A, multi-line terminating systems may be connected at the customer's premises to telecommunications services in accordance with the following conditions.
1.	The connection is made through a connecting arrangement furnished by Verizon.
2.	The provisions relating to minimum protection criteria specified in Section 4.4.6 apply to the connection of multi-line terminating systems.

4.4.4	Attested Equipment Connected Prior to July 1, 1980
A.	Headsets and non-powered conferencing equipment which meet the standards and procedures set forth by Verizon in technical references for attested equipment, and which are connected at the customer's premises to the telecommunications network prior to July 1, l980, may remain connected and be moved and reconnected for the life of the equipment unless subsequently modified, in accordance with the following conditions.
1.	The connection is made through an interface termination (e.g., headset jack) provided by Verizon.
2.	Prior to the connection of any equipment, the manufacturer or supplier must submit a written affidavit and request to Verizon attesting that the equipment complies with the standards and procedures set forth by Verizon. Verizon will issue an identification number for each specific model or type of equipment.
3.	The identification number issued by Verizon to the manufacturer or supplier must appear on each unit of attested equipment utilized.
4.	Customers must notify Verizon of their intention to connect attested equipment. The notification must include the identification number of the equipment and the location at which that equipment is to be used.
5.	Attested equipment must comply with the minimum protection criteria set forth in Section 4.4.6.
6.	Attested equipment may not be grounded, nor may it be used in the following ways.
a.	For connection to a source of electrical power that is external to the telecommunications network.
b.	To perform any network control signaling functions prior to or after the establishment of the intended transmission path.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.4 Connections of Grandfathered Terminal Equipment and Multi-line Terminating Systems

4.4.4	Attested Equipment Connected Prior to July 1, 1980
A.6.	(Continued)
c.	To 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 Section 4.4.6).
d.	Use wiring external to such equipment that is permanently affixed at the site of the installation other than portable connections compatible with the interface termination provided by Verizon.
B.	In the event attested equipment bearing an identification number does not meet the requirements set forth by Verizon in its technical references, the customer using such attested equipment must either disconnect the equipment from Verizon service or arrange for connection of the equipment in accordance with Section 4.3.

4.4.5	Conforming Answering Devices Connected Prior to July 1, 1979
A.	Conforming answering devices, incorporating an authorized protective connecting module, which meet the standards and procedures set forth by Verizon 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, may remain connected and be moved and reconnected in accordance therewith for the life of the equipment, unless subsequently modified, in accordance with the following conditions.
1.	Customers must notify Verizon of their intention to connect conforming answering devices. The notification must include the location at which the conforming answering device is to be used as well as its conformance number.
2.	The conforming answering device is connected only by means of a jack or jack arrangement provided by Verizon.
3.	The conforming answering device is operated and maintained in accordance with those instructions furnished with the conforming answering device as required by Verizon's technical reference for conforming answering devices.
4.	Conforming answering devices may not be used for the following purposes.
a.	To transmit or receive data signals
b.	For use with PASL service
c.	To originate calls.
5.	The conforming answering device must comply with the minimum protection criteria set forth in Section 4.4.6.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.4 Connections of Grandfathered Terminal Equipment and Multi-line Terminating Systems

4.4.5	Conforming Answering Devices Connected Prior to July 1, 1979
A.	(Continued)
6.	When an answering device is used for public announcement purposes in association with more than one telephone line, the lines to handle the calls received are furnished as announcement lines.
7.	The customer must subscribe to a sufficient number of lines to adequately handle the volume of telephone calls so that the number of incoming calls from the general public to the customer at any one time does not cause impairment, disruption, or deterioration of other telephone services.
B.	In the event that an answering device bearing a conformance number does not meet the requirements of Verizon's technical reference for conforming answering devices, the customer using such answering device must either disconnect the device from Verizon service, or arrange for connection of the device in accordance with Section 4.3.

4.4.6	Electrical Connections
A.	**Minimum Protection Criteria—** To prevent excessive noise and cross talk in the network, the power of the signal at the central office must 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 Verizon interface located on the customer's premises is specified for each customer's location but in no case can it exceed one milliwatt.
1.	To protect other services, the signal applied by the equipment to Verizon interface located on the customer's premises must meet the following limits.
a.	The power in the band from 3,995 Hz to 4,005 Hz must be at least 18db below the power of the signal as specified in Section 4.4.6A.
b.	The power in the band from 4,005 Hz to 10,000 Hz must not exceed 16db below one milliwatt.
c.	The power in the band from 10,000 Hz to 25,000 Hz must not exceed 24db below one milliwatt.
d.	The power in the band from 25,000 Hz to 40,000 Hz must not exceed 36db below one milliwatt.
e.	The power in the band above 40,000 Hz must not exceed 50db below one milliwatt.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.4 Connections of Grandfathered Terminal Equipment and Multi-line Terminating Systems

4.4.6	Electrical Connections
B.	To prevent the interruption or disconnection of a call, or interference with network control signaling, the signal applied by the equipment to the Verizon interface, located on the customer's premises, must at no time have energy solely in the 2,450 to 2,750 Hz band. If signal power is in the 2,450 to 2,750 Hz band, it must not exceed the power present at the same time in the 800 to 2,450 Hz band.

4.4.7	Acoustic or Inductive Connections
A.	Voice or data terminal equipment and multi-line terminating systems may be acoustically or inductively connected at the customer's premises to the telecommunications network provided the connection is made externally to the network control signaling unit provided by the customer.
B.	Tone-type address signaling is permitted through acoustic or inductive connections; however, the services of Verizon are not designed for this use and Verizon makes no representation as to the reliability of address signaling performed in this manner.
C.	**Minimum Protection Criteria—** To prevent excessive noise and crosstalk in the network, the power of the signal applied by the equipment to the network control signaling unit located on the customer's premises must be limited so that the signal power at the output of the network control signaling unit (i.e., at the input to the Verizon 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, Verizon, at the customer's request, will specify for each customer location the signal power at the output of the network control signaling unit but in no case can it exceed one milliwatt.
1.	To protect other services, the signal applied by the terminal equipment to the network control signaling unit located on the customer's premises must meet the following limits at the output of the network control signaling unit.
a.	The power in the band from 3,995 Hz to 4,005 Hz must be at least 18db below the power of the signal specified herein.
b.	The power in the band from 4,005 Hz to 10,000 Hz must not exceed 16db below one milliwatt.
c.	The power in the band from 10,000 Hz to 25,000 Hz must not exceed 24db below one milliwatt.
d.	The power in the band from 25,000 Hz to 40,000 Hz must not exceed 36db below one milliwatt.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.4 Connections of Grandfathered Terminal Equipment and Multi-line Terminating Systems

4.4.7	Acoustic or Inductive Connections
C.	(Continued)
e.	The power in the band above 40,000 Hz must not exceed 50db below one milliwatt.
D.	To prevent the interruption or disconnection of a call, or interference with network control signaling, the signal applied by the equipment to the network control signaling unit located on the customer's premises must be limited so that the signal power at the output of the network control signaling unit at no time has energy solely in the 2,450 to 2,750 Hz band. If there is signal power at the output of the network control signaling unit in the 2,450 to 2,750 Hz band, it must not exceed the power present at the same time in the 800 to 2,450 Hz band.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.5 Connections of Customer Provided Communications Systems Not Subject to Part 68 of the FCCs Rules and Regulations

4.5.1	Direct Connections
A.	The customer provided communications system not subject to Part 68 of the FCCs rules and regulations must be installed, operated, and maintained so that the signal power (within the frequency range of 200–4,000 Hz) at the telecommunications network interface continually complies with Part 68. Customer provided communications systems not subject to Part 68 (including channels derived from such system), may be connected on a direct electrical basis at the customer's premises with telecommunications services in accordance with this Product Guide provided that the connection is made through the following arrangement or equipment.
1.	A connecting arrangement furnished by Verizon
2.	Registered or grandfathered terminal equipment, protective circuitry, or multi-line terminating systems subject to Part 68 which, either singularly or in combination, assures that all the requirements of Part 68 are met at the telecommunications network interface.
3.	The circuitry, equipment, or systems, specified in Section 4.5.1A2 which assures that all the requirements, except signal power control, of Part 68 are met, provided the customer complies with institutional procedures.
B.	**Institutional Procedures—** The operator/maintainer 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 courses described herein, and the Affidavit Requirements described herein. Upon request, the customer must provide proper documentation to demonstrate compliance with the requirements for institutional procedures. In lieu of the training requirements, the operator/maintainer is under the control of a supervisor with the following course training.
1.	A training course provided by the manufacturer of the equipment used to control voice frequency signal power.
2.	A training course provided by the customer, authorized user, or joint user who has responsibility for the entire communications system not subject to Part 68, using training materials and instructions provided by the manufacturer of the equipment used to control the voice frequency signal power.
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.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.5 Connections of Customer Provided Communications Systems Not Subject to Part 68 of the FCCs Rules and Regulations

4.5.1	Direct Connections
B.	(Continued)
4.	**Affidavit Requirement—** At least ten days advance notice, in the form of a notarized affidavit, must be given to Verizon before the initial connection of a customer provided communications system not subject to Part 68 of the FCCs rules and regulations. A copy of the affidavit must also be maintained at the customer's premises. The affidavit must contain all of the following information.
a.	The full name, business address, and telephone number along with the signature of the customer, authorized user, or joint user who has responsibility for the operation and maintenance of the communications system not subject to Part 68.
b.	Information identifying the lines to which the communications system not subject to Part 68 will be connected to or arranged for connection to.
c.	A statement indicating all operations associated with establishment, maintenance, and adjustment of the signal power present at the telecommunications network interface will comply with Part 68.
d.	A statement describing how each operator/maintainer of the communications system not subject to Part 68 will meet and continue to meet the training requirements for persons installing, adjusting, or maintaining such communications systems.
C.	The customer provided communications system not subject to Part 68 must be arranged to promptly return the telecommunications services to an idle (on-hook) state, except when the connection is made through switching equipment, should the communications system not subject to Part 68 fail. In addition, the customer must notify Verizon if the communications system not subject to Part 68 fails.
D.	The provisions relating to minimum protection criteria set forth in Section 4.4.6 apply when the connection is made through equipment or systems that are not registered.
E.	When the connection of a customer provided communications systems not subject to Part 68 of the FCCs rules and regulations is made pursuant to Section 4.5.1B, the following extraordinary procedures apply.
1.	Verizon may invoke extraordinary procedures to protect the telecommunications network where one or more of the following conditions are present.
a.	Information provided in the affidavit gives reason to believe that a violation of Part 68 or the institutional procedures set forth in Section 4.5.1B is likely.
b.	Harm has occurred and there is reason to believe this harm was a result of operations performed under institutional procedures.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.5 Connections of Customer Provided Communications Systems Not Subject to Part 68 of the FCCs Rules and Regulations

4.5.1	Direct Connections
E.	(Continued)
2.	The extraordinary procedures which can be invoked by Verizon, include the following.
a.	Requiring the use of a connecting arrangement 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 connecting arrangement may be provided by either Verizon or the customer.
b.	Discontinuance of service.
F.	In addition to the preceding regulations, when connections involve Dedicated Toll Free Service (DTFS) lines not connected through switching equipment, the customer provided communications system not subject to Part 68 must terminate only in the State of Rhode Island Local Access and Transport Area (LATA) in terminal equipment or multi-line terminating systems subject to Part 68.
G.	When connections are made to customer provided communications systems not subject to Part 68 at a premises where the customer does not originate or terminate communications, Verizon may require, due to the impact on local switching and trunking, that service be furnished from a Verizon central office different than the central office designated by Verizon to serve the premises. Under theses circumstances, rates and charges equal those specified in Section 5 or Section 11 apply, as appropriate, for facilities between the central office that would serve the customer's premises and the central office from which the service is actually provided.
H.	For the purpose of these regulations, amateur radio operator's communications facilities employed in the operation of an amateur station pursuant to a license duly issued by the FCC are considered customer provided communications systems not subject to Part 68.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.6 Special Service Arrangements–Terminal Equipment

4.6.1	United States Government Provided Secrecy Equipment
A.	Except as otherwise provided in Section 4.6.1E, equipment of a department or agency of the Executive Branch of the US Government used for the purpose of disguising or concealing the contents or meaning of communications may, in lieu of the provision of Section 4.4 and Section 4.5, be connected to Verizon equipment or facilities subject to the following regulations and conditions.
1.	The head of the department or agency whose equipment is to be connected, or an authorized representative, notifies Verizon in writing that the 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 is constructed, maintained, and operated to work satisfactorily with the facilities of Verizon.
3.	The connection is made by means of protective connecting equipment or arrangements furnished by Verizon or the customer.
B.	The secrecy equipment for the transmission and reception of information hereinafter called customer's equipment may be connected to the facilities of Verizon by means of protective connecting equipment furnished by Verizon or the customer for this purpose.
C.	The customer's equipment may be used in connection with any class of service, except Public Access Smart-pay Line service, furnished to the US Government.
D.	Portable equipment is connected by Verizon provided jacks.
E.	Terminal equipment connected to the telecommunications network in accordance with Section 4.6.1A prior to July 1, 1979, 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 multi-line terminating systems subject to Part 68 of the FCCs rules and regulations must be connected to the telecommunications networks in accordance with Section 4.3.

4.6.2	Recording, Reproducing, and Automatic Answering and Recording Equipment
A.	**General—** Recording, reproducing, and automatic answering and recording equipment may be used with the facilities of Verizon. When the connection is to facilities for exchange and MTS, it is made through a connecting equipment provided by either Verizon or the customer, in compliance with the minimum protection criteria specified in Section 4.4.6 and Section 4.4.7, and subject to the regulations contained herein.

4. Connections of Customer Premises Equipment to the Telecommunications Network
4.6 Special Service Arrangements–Terminal Equipment

4.6.2	Recording, Reproducing, and Automatic Answering and Recording Equipment
B.	**Recording of Two-Way Telephone Conversations—** Telecommunications services are not represented as adapted to the recording of two-way telephone conversations. However, voice recording equipment may be connected with telecommunications services in accordance with Section 4.3 and Section 4.4, subject to the following conditions.
C.	A distinctive recorder tone repeated at intervals of approximately 15 seconds is required when recording equipment is in use and is electrically connected with services of Verizon. A distinctive recorder tone is not required when used by the following parties, or purpose.
1.	An FCC licensed broadcast station customer for recording of two-way telephone conversations solely for broadcast over the air.
2.	The United States Secret Service of the Department of Treasury for recording of two-way telephone conversations that concern the safety and security of the President of the United States, members of his/her immediate family, or the White House and its grounds.
3.	A broadcast network or by a cooperative programming effort composed exclusively of FCC broadcast licensees to record two-way telephone conversations solely for broadcast over the air by a licensed broadcast station.
4.	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.
5.	On central office lines used by municipal fire departments, police departments, or other emergency answering centers of a local government or governments and assigned exclusively for the receipt of emergency calls.
D.	Voice recording equipment cannot be connected with services of Verizon for the recording of two-way telephone conversations by means of an acoustic or inductive connection, except when used as specified in Section 4.6.2C.
E.	Connection may be made through portable recorder connector equipment. This equipment is connected with the telephone line through jacks installed by Verizon on each line or at each station used for recording purposes. When recording is done at a cord switchboard, a portable jack box may be used.
F.	Voice recording equipment must be arranged so that it can be physically connected to and disconnected from the services of Verizon, or switched on and off, by a user.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.6 Special Service Arrangements–Terminal Equipment

4.6.2	Recording, Reproducing, and Automatic Answering and Recording Equipment
G.	**Recording of Incoming Messages Only—** Direct electrical connection of recording equipment with the facilities of Verizon for the recording of incoming messages only is made through recorder coupler equipment furnished, installed, and maintained by either Verizon or the customer. This connecting equipment permits an attendant to use telephones on the same line to monitor the recording of incoming messages but physically prevents recording during telephone conversations. A recorder tone is not required.
H.	**Transmission of Pre-recorded Messages**
1.	Direct electrical connection of unattended reproducing equipment with the facilities of Verizon for the transmission of pre-recording messages is made through connecting equipment furnished, installed, and maintained by either Verizon or the customer.
2.	When the reproducing equipment is used for public announcement purposes in association with more than one line, the lines to handle the calls received are furnished as announcement lines.
3.	With each reproducing system used for public announcement purposes, one directory listing is furnished without charge.
I.	**Automatic Answering and Recording Equipment—** Direct electrical connection of automatic answering and recording equipment with facilities of Verizon for transmitting a pre-recorded message to the calling party, if desired, and recording an incoming message only is made through connecting equipment furnished, installed, and maintained by either Verizon or the customer. This connecting equipment automatically trips the ringing and holds the connection.
J.	Connecting equipment is available for use with exchange, Private Branch Exchange (PBX), and Centrex lines except that connecting equipment used for unattended operation is available only where full selective ringing is employed.
K.	Recording, reproducing, and automatic answering and recording equipment cannot be used to interconnect any line or channel of Verizon with any other line or channel of Verizon or of any other person.
L.	Recording, reproducing, and automatic answering and recording equipment may be connected with facilities of Verizon only if the customer subscribes to a sufficient number of announcement lines to adequately handle the volume of telephone calls received without interfering with any of the services offered by Verizon. In the event that the use of equipment causes interference, Verizon has the right to discontinue service without prior notification to the customer.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.6 Special Service Arrangements–Terminal Equipment

4.6.3	Telephotograph, Electroencephalogram and Electrocardiogram Equipment
A.	Telephotograph equipment, (which is no longer available), was provided by the press, law enforcement agencies, the armed forces, civilian defense agencies, or the United States Weather Bureau, and equipment provided by members of the medical profession and hospitals for the transmission and reception of electrocardiograms and electroencephalograms used for medical diagnosis and treatment that is connected to Verizon facilities can be continued at existing locations only.

4.6.4	Hazardous or Inaccessible Locations
A.	Except as otherwise provided in Section 4.6.4B, facilities to serve hazardous or inaccessible locations are normally provided by the customer to a location on the telecommunications network as determined by Verizon. If Verizon construction is required, it is furnished in accordance with the Special Condition regulations specified in Section 2.
B.	Terminal equipment connected to the telecommunications network in accordance with Section 4.6.4A, prior to July 1, 1979, 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 multi-line terminating systems subject to Part 68 of the FCCs rules and regulations must be connected to the telecommunications network in accordance with Section 4.2.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.7 Special Service Arrangements–Communications Systems

4.7.1	United States Army, Navy and Air Force
A.	Except as otherwise provided in Section 4.7.1C, facilities of a telephone system of the US Department of the Army, Navy, or Air Force that serves an establishment operated and administered under the direction of the Department and commanded by authorities of the Department and which is located generally within the boundaries of the establishment may, in lieu of the provisions of Section 4.4 and Section 4.5, be connected to the telecommunications network if the Secretary of the appropriate Department certifies in writing that reasons of military necessity require that the establishment be served by a telephone system of the Department. In addition, the facilities of a temporary telephone system of the Department located off a permanent establishment of the Department for maneuvers, mobilization tests, or technical service tests may be so connected.
B.	Except as otherwise provided in Section 4.7.1C, facilities of the US Department of the Army, Navy, or Air Force, other than those described in Section 4.7.1A may, in lieu of the provisions of Section 4.4 and Section 4.5, be connected by means of switching or connecting equipment furnished by Verizon, to a PBX switchboard or other switching or terminal equipment for communications with stations and private line facilities associated with the switching or terminal equipment, if the Secretary of the appropriate Department or an authorized representative notifies Verizon in writing that the connection is required for reasons of military necessity the Department's facilities can be connected to the telecommunications network only in cases of emergency involving safety of life or property, unless the Department's facilities are in locations where it is impracticable for Verizon to furnish its facilities.
C.	Terminal equipment and multi-line terminating systems connected to the telecommunications network in accordance with Section 4.7.1A and Section 4.7.1B, prior to January 1, 1980, may remain connected and be moved and reconnected for the life of the equipment without registration unless subsequently modified. New installations of terminal equipment and multi-line terminating systems subject to Part 68 of the FCCs rules and regulations must be connected to the telecommunications network in accordance with Section 4.3.

4.7.2	Power, Pipeline and Railroad Companies
A.	Except as otherwise provided in Section 4.7.2G, facilities of an electric power company, an oil, oil products, or natural gas pipeline 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 Section 4.4 and Section 4.5, be connected with the telecommunications network for the following purposes.
1.	In cases of emergency involving safety of life or property.

4. Connections of Customer Premises Equipment to the Telecommunications Network
4.7 Special Service Arrangements–Communications Systems

4.7.2	Power, Pipeline and Railroad Companies
A.	(Continued)
2.	In cases of calls originated by railroad employees under circumstances indicating need for prompt action to secure or maintain the safety, continuity, or reliability of railroad service to the public, and related to the movement of passengers, mail, property, or equipment by railroad, or the repair, maintenance, or construction of railroad rights-of-way, structures, or equipment.
3.	In cases where customer facilities serve locations where it is impracticable, because of hazard or inaccessibility, for Verizon to furnish its facilities.
a.	Customer facilities do not include mobile radiotelephone facilities.
4.	During an interim period in cases where the customer has arranged for replacement of customer facilities with facilities of Verizon.
a.	Customer facilities do not include mobile radiotelephone facilities.
B.	Facilities of the customer may be connected to PBX switchboards or other telephone switching or terminal equipment located in the same or different local service areas, for communications with stations and private line facilities associated with the switching or terminal equipment, provided that, within the same local service area, a PBX switchboard or other telephone switching or terminal equipment furnished for exchange services is not connected with telephones of the customer, nor with private telephone switching equipment of the customer except switching equipment used exclusively for dispatching, or line switching equipment not connected with telephones within the same local service area.
C.	Circuits of the customer are connected to a central office line to form a through connection only via manual switching equipment, or an attendant's position of dial PBX equipment. The equipment or position may be located at either or both ends of the customer's circuit.
D.	Connection of a circuit of the customer, as specified in Section 4.7.2A2 through Section 4.7.2A4 may be established at either end of the circuit, but cannot be established at both ends simultaneously.
E.	Facilities of Verizon connected with facilities of the customer, cannot be used for communications of other than the customer, except that the facilities may be used for the communications of, and be connected with, facilities furnished by Verizon to other companies which are owned and/or operated as follows.
1.	Operated with the customer as parts of an integrated electric power, oil, oil products, or natural gas pipeline systems, or railroad system under direct or common ownership or control.

4. Connections of Customer Premises Equipment to the Telecommunications Network
4.7 Special Service Arrangements–Communications Systems

4.7.2	Power, Pipeline and Railroad Companies
E.	(Continued)
2.	Own or operate an electric power, pipeline, or railroad system jointly with the customer.
3.	Own or operate electric power, pipeline, or railroad facilities interconnected with those of the customer.
F.	Verizon facilities when connected in accordance with Section 4.7.2E, may be used for exchange or MTS of other companies specified in Section 4.7.2E, including calls originated by employees of these companies, only under the circumstances set forth in Section 4.7.2A1 and Section 4.7.2A2.
G.	Terminal equipment and multi-line terminating systems connected to the telecommunications network in accordance with Section 4.7.2A through Section 4.7.2D, prior to January 1, 1980, may remain connected and be moved and reconnected for the life of the equipment unless subsequently modified. New installations of terminal equipment and multi-line terminating systems subject to Part 68 of the FCCs rules and regulations must be connected to the telecommunications network in accordance with Section 4.2.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.8 Protection Equipment for Services to Power Stations

Effective May 30, 2008, Protection Equipment for Services to Power Stations as provided in this section, is available only for existing customers. Additions, rearrangements and moves of service are not permitted.

4.8.1	General
A.	Protection equipment is designed to protect Verizon services extending to electric power generating and distributing locations from high voltage hazards experienced when ground potentials rise due to faults in the electric power system.
B.	The equipment required to isolate or neutralize the electrical hazard is provided by Verizon. However, the customer has the option to furnish the equipment required to neutralize electrical hazards, subject to the approval by Verizon of the proper levels of protection and the equipment to be provided by the customer. All equipment to neutralize electrical hazards at a given location must be provided by either Verizon or the customer.
C.	The customer must furnish the technical data needed by Verizon to determine the degree of protection required, and Verizon determines the proper levels of protection to isolate or neutralize the electrical hazard.
D.	The customer must notify Verizon of all power station changes affecting the degree of protection necessary.
E.	Premises work charges apply in addition to the monthly rates and S&E charges for protection equipment for services to power stations.
F.	For neutralizing and isolation transformer single channel units, the number of protective devices billed is in accordance with customer service requirements.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.9 Connecting Arrangements

4.9.1	General
A.	Except as otherwise provided in Section 4.5, installations of new connecting arrangements can not be made under the following conditions.
1.	After July 1, 1979, for connection of terminal equipment
2.	After January 1, 1980, for connection of multi-line terminating systems
3.	After May 1, 1983, for connections of terminal equipment or multi-line terminating systems to certain private line services.
B.	Treatment with respect to grandfathered installations which include connecting arrangements is covered in Section 4.4.
C.	Premises work charges and all other applicable rates and charges for the associated services and equipment apply.

4.9.2	Data Access Arrangement
A.	For data access arrangements for unattended sending and receiving through a voltage type control interface, an automatic calling unit may be provided.
B.	The data access arrangements for unattended sending and receiving through a contact closure type interface is not for use with an automatic calling unit.

4.9.3	Voice Connection Arrangements
A.	For power failure transfer, for an arrangement to transfer up to four trunks to a like number of telephones, with immediate restoral, a monthly rate is applicable when an automatic voice connection arrangement (USOC CD7, CD8, CD9 or CDH) is the interface with the terminal equipment. In addition, rates and charges apply for trunk multipling arrangements.
B.	For power failure transfer, for an arrangement to transfer one trunk to a telephone, with delayed restoral, a monthly rate is applicable when an automatic voice connection arrangement (USOC CD7, CD8, CD9 or CDH) is the interface with the terminal equipment. In addition, rates and charges apply for trunk multipling arrangements.
C.	An arrangement to associate message registers where the customer provides the multi-line terminating system and the necessary equipment to associate the system telephones and the message registers with central office trunk lines is available and provided only if the local serving central office is equipped with message registers. In addition, a signal grade channel (Private Line Type 1001), is required between the local serving central office and the customer's premises with each trunk line furnished.

4. Connections of Customer Premises Equipment to the Telecommunications Network

4.9 Connecting Arrangements

4.9.3	Voice Connection Arrangements
D.	An arrangement to permit the termination of customer provided tie lines with customer provided channel signaling in PBX or Centrex systems is also available.
E.	The alarm coupler automatic arrangement is used for the connection of alarm devices, such as burglar and fire alarm systems, capable of transmitting pre-recorded voice messages over a predetermined telephone number. The alarm coupler is designed to accept dial pulses generated by terminal equipment and to condition these pulses for transmission. It may be used with one-party exchange, PBX, or Centrex lines.

4.9.4	Special Arrangements
A.	Recorder connector equipment special arrangement is used under the following situations.
1.	For the connection of attended recording equipment with the facilities of Verizon.
2.	For use with private line service which has no connection with the telecommunications network, or for use on central office lines used by municipal fire and police departments or other emergency answering centers of a local government and assigned exclusively for the receipt of emergency calls. [Note: Available to existing customers at present locations only.]
3.	For use with exchange lines to record incoming messages only. Such an arrangement without an automatic recorder tone device is no longer available. The arrangement for transfer relay cut off arrangement which is required to permit monitoring during recording and conversation without recording is no longer available.
B.	Recorder coupler equipment special arrangement is for the connection of unattended recording, reproducing, and automatic answering and recording equipment with the facilities of Verizon.
C.	Voice connecting arrangement provides for the connection of answer only terminal equipment for following transmission or connection requirements.
1.	Two-way transmission
2.	Receive only transmission and automatic volume limiting
3.	To provide for the connection of automatic answering devices to central office lines.
D.	Announcement lines associated with recording equipment are furnished as specified in Section 5.