

REGULATIONS**A. Undertaking of the Company**

1. Scope

- a. This section contains the general regulations and definitions governing Digital Link Service and Private Line Service furnished by the Company, except as otherwise specified, or unless the terms and conditions of an individual customer's agreement provided pursuant to Part 2, Section 2 apply.
- b. Digital Link Service and Private Line Service is the furnishing of Company service components for communication between specified locations all within Local Access and Transport Areas (LATA's) of the State of Missouri 24 hours daily, seven days per week. Service components may be those of the Company only or those of the Company and other telephone companies.
- c. The Company does not undertake to transmit messages, but offers the use of its service components, where available, to customers for such purposes.
- d. Services provided under this Guidebook shall be used by private line customers for use in obtaining end-to-end Dedicated Communications Services. Interexchange Customers may use services found in this Guidebook that will meet their administrative needs; however, an Interexchange Customer is restricted from utilizing services found in this Guidebook to furnish a portion of their authorized service offerings.

2. Limitations

- a. The use and restoration of service shall be in accordance with the Federal Communications Commission's Rules and Regulations and Telecommunications Service Priority (TSP) System service found in Part 8, Section 5 which specifies the priority system for such activities.
- b. The furnishing of service under this Guidebook will require certain physical arrangements of the service components of the Company and is, therefore, subject to the availability of such service components.
- c. Subject to compliance with paragraph A.2.a. preceding, where a shortage of Private Line channels or equipment exists at any time, either for temporary or protracted periods, the establishment of Long Distance Message Telecommunications Service and/or regular Exchange Telephone Service shall take precedence over all other services.
- d. Digital Link Service may be limited in order to comply with orders issued under wartime authority of the President of the United States.

REGULATIONS (cont'd)**A. Undertaking of the Company (cont'd)**

3. Liability

- a. In view of the fact that the customer has exclusive control of his communications over the service components furnished him by the Company and of the other uses for which service components may be furnished him by the Company, and because of unavoidable errors incidental to the services and to the use of such service components of the Company, and services and service components furnished by the Company are subject to the terms, conditions and limitations herein specified and to such particular terms, conditions and limitations as set out in this Guidebook governing the respective services.
- b. The Company shall not be liable for damages arising out of mistakes, omissions, interruptions, delays or errors or defects in transmission occurring in the course of furnishing service hereunder where the same is caused by the negligence or willful act of the customer or user. Any liability of the Company for damages arising out of any of the foregoing, or for failing to maintain proper standards of maintenance and operation, or for failing to exercise reasonable supervision shall, in no event, exceed an amount equivalent to the proportionate charge to the customer for the period of service during which such mistake, omission, interruption, delay or error or defect in transmission occurs. No other liability shall in any case attach to the Company in consideration of such interruptions.
- c. The Company shall be indemnified and saved harmless by the customer or user against:
 1. Claims for libel, slander and infringement of copyright arising from the material transmitted over the service components;
 2. Claims for infringement of patents arising from combining with, or using in connection with, service components furnished by the Company, apparatus and systems of the customer or user; and
 3. All other claims arising out of any act of omission of the customer or user in connection with the service components provided by the Company.
- d. The Company does not guarantee nor make any warranty with respect to service components provided by it for use in an explosive atmosphere. The customer or user indemnifies and holds the Company harmless from any and all loss, claims, demands, suits or other action or any liability whatsoever, whether suffered, made, instituted or asserted by the customer or user or by any other party or persons for any personal injury to or death of any person or persons and for any loss, damage or destruction of any property, whether owned by the customer or others, caused or claimed to have been caused directly or indirectly by the installation, operation, failure to operate, maintenance, removal, presence, condition, location or use of said service components so provided.

The Company will require each customer to sign an agreement for the furnishing of such service components as a condition precedent to the furnishing of such service components.

- e. The Company is not liable for any defacement of or damage to the premises of a customer (or user) resulting from the furnishing of channel service components or the attachment of the associated wiring furnished by the Company on such premises or by the installation or removal thereof, when such defacement or damage is not the result of negligence of the agents or employees of the Company.

REGULATIONS (cont'd)**A. Undertaking of the Company (cont'd)**

3. Liability (cont'd)

- f. The Company shall in no way be liable for any harm or any damages arising in connection with any failure to properly ground or bond the service, the premises, any structure in which the service is to be provided or used, or any service components, equipment, or associated wiring.
- g. When the lines of connecting companies are used in establishing connections to points not reached by the Company's lines, the Company is not liable for any act or omission of the connecting company or companies.
- h. The Company shall be under no liability for the quality or defects in voice recordings where Company combined service components are used in making such recordings.

4. Provision of Service Components

- a. The Company will provide, maintain and repair all service components necessary for Digital Link Service and Private Line Service up to the demarcation point of the channel. The customer will be responsible for providing his own terminal equipment, customer-provided derivation equipment or communications system for use with such service as specified in this Guidebook.
- b. Service furnished by the Company will be provided at the rates contained in this Guidebook where service components and operating conditions permit. Where service components are not available and unusual expenditures are involved in making them available, the customer may be required to pay additional charges to cover the unusual expenditure in accordance with Paragraph D.4, or contract beyond the initial period, or both.
- c. The charges specified in the Guidebook do not contemplate installation, maintenance or repair work being performed by the Company employees involved at a time when overtime wages apply as a result of customer requests, nor do they contemplate work once begun being interrupted by the customer.

If the customer requests that labor be performed at hours of the day or days of the week other than normal work hours or days, or on holidays, or interrupts work once begun, an additional charge based on the additional costs involved applies. Such charges do not apply if sufficient advance notice is given so that employees' work schedules can be changed. The additional charge does not apply to overtime or premium time worked at the Company's convenience.

In situations where the customer requests that "standby" Company personnel be provided for installation or maintenance irrespective of when such "standby" workmen are provided, the additional estimated cost of providing such "standby" personnel will be billed to the customer.

REGULATIONS (cont'd)**A. Undertaking of the Company (cont'd)**

4. Provision of Service Components (cont'd)

- d. When serving office boundary realignments are necessary at the discretion of the Company, those Services affected by the change will be reconfigured, and this may result in increases or decreases in charges. Any change in charges billed to a customer will become effective when the serving office area transfer is made.
- e. When the customer requires the modification of standard service components not otherwise provided in this Guidebook, the modification can be furnished by the Company at additional rates and charges, provided the modification is in connection with and not detrimental to any of the services furnished in this Guidebook.
- f. The network interface (demarcation point) shall be located in a manner consistent with federal and state regulatory requirements, as set forth in the definition of 'Demarcation Point' found under Definitions in this Section.
- g. All ordinary expense of maintenance and repair associated with network facilities and equipment, unless otherwise specified in this Guidebook, is borne by the Company. The customer agrees to take good care of the network equipment and facilities provided. In case of damage to or destruction of any of the Company's network equipment or facilities not due to ordinary wear and tear, the customer is held responsible for the cost of replacing the Company's network equipment destroyed or for the cost of restoring the Company's network equipment to its original condition, except where such damage is not occasioned by the negligence of the customer.
- h. Service components furnished by the Company on the premises of a customer are the property of the Company, whose agents and employees shall have the right to enter said premises at any reasonable hour for the purpose of installing, inspecting or repairing the service components or upon termination of the service for the purpose of removing such service components.

5. Protective Equipment

- a. When a hazardous electrical environment is present at a customer's premises, protective equipment is required to protect all facilities affected when the estimated rise in ground potential is sufficient to cause damage to Company facilities or to endanger the safety of its employees or customers. The customer may elect to provide his own protective equipment, subject to Company specifications. The protective equipment may also be provided in accordance with Paragraph A.7.
- b. Neutralizing transformers, isolating transformers, drainage coils and other special protective equipment for use in providing service to customer's premises where there are high ground potentials, even though not required by Paragraph 5.A.a, may be provided by the customer subject to Company specifications or in accordance with Paragraph A.7.

REGULATIONS (cont'd)**A. Undertaking of the Company (cont'd)**

6. Application for Private Line Service

- a. Any applicant for Private Line Service may be required to sign an application requesting the Company to furnish the service in accordance with rates, charges, rules and regulations as specified in this Guidebook.
- b. The Company reserves the right to refuse service to any applicant who is found to be indebted to the Company for Private Line Service previously furnished until satisfactory arrangements have been made for the payment of such indebtedness.

The Company may also refuse to furnish service to any applicant desiring to establish service for former customers or previous customers of the Company who are indebted for Private Line Service until satisfactory arrangements have been made for the payment of such indebtedness.

- c. If Private Line Service is established and it is subsequently determined that either condition in Paragraph A.6.b. exists, the Company may suspend or disconnect such service on two days' written notice until satisfactory arrangements have been made for the payment of the prior indebtedness.

7. Special Equipment and Arrangements

When the customer requests a service arrangement which requires the installation of special equipment or modification of standard equipment, and for which provision is not otherwise made in this Guidebook, it can be furnished by the Company subject to additional regulations, rates and charges as specified for Special Service Arrangements in the Rules and Regulations applying to all Customers' Contracts Section of Part 2, Section 2 of the Guidebook.

B. Use

Digital Link Service and Private Line Service may be used for the purposes specified in Paragraph 1 (Authorized Use), following.

1. Authorized Use

- a. Digital Link and Private Line Service may be used for transmission of communications to or from the customer's service points and relating to the customer's business.
- b. Digital Link and Private Line Service may be used for transmission of communications relating directly to the business of the subsidiary corporations over which the customer exercises control through the ownership of more than 50 percent of the voting stock.
- c. For the transmission, to all stations simultaneously, of communications which relate directly to matters of common interest of the customer when those connected to the service are all in the same general line of business.
- d. For the transmission of communication to or from any station on a service furnished to a department or agency of the United States Government when the head of the department or agency, or his duly authorized representative, notifies the Company in writing that the use is intended only for official United States Government business.

REGULATIONS (cont'd)**B. Use (cont'd)**

1. Authorized Use (cont'd)

- e. For the transmission of communications to, from within and between air carriers where the customer is an aeronautical communications company licensed under the Aviation Services rules of the Federal Communications Commission to operate stations in the aeronautical mobile and fixed services.
- f. Where the customer is an organized stock or commodity exchange for the transmission of communications to or from an exchange member located on the floor of such exchange and relating directly to the business of the member.
- g. Where the use of the service relates to coordination or exchange of electrical pooled power for the transmission of communications between any two or more stations of such service or similar services furnished to others who are parties to the coordinating or exchange arrangement.
- h. For the transmission of communications to, from and/or between users utilizing premises switching equipment within a Multiline Terminating System Area. The premises switching equipment may be furnished under a resold or shared arrangement.

2. Unlawful Purposes

The service is furnished subject to the condition that it will not be used for any unlawful purpose. Service will be discontinued forthwith if any law enforcement agency, acting within its apparent jurisdiction, advises in writing that such service or channels are being used in violation of law. The Company will refuse to furnish service when it has reasonable grounds to believe that such service will be used in violation of the law.

3. Resale for Others

- a. Intraexchange Private Line Service provided for in Part 15, Section 2 shall not be used for any purpose for which a payment or other consideration, direct or indirect, shall be received by the customer or in the collection, transmission or delivery of any communications for others. This provision does not apply for the following:
 - 1. To shared cost of Private Line Service in a resold or shared arrangement as follows:
 - (a) Shared arrangement within a Multiline Terminating System Area.
 - Private Line Service may be shared, but may not be resold, subject to the regulations set forth herein between the customer and users. This customer may, but does not have to, use that Private Line Service.
 - The Company shall not be responsible for the allocation of usage of, or charges for, shared Private Line Service. Orders, including those which involve the start, rearrangement, release or discontinuance of service, will be accepted by the Company only from the customer.
 - (b) An arrangement between the customer or users to share the cost of a Private Line Service.

REGULATIONS (cont'd)

B. Use (cont'd)

3. Resale for Others (Cont'd)
 - a. (Cont'd)
 2. To a Composite Data Service Vendor's premises where one type of service may be provided for the exclusion use of the Composite Data Service Vendor's management or employees and another type of service may be provided for the use of the patrons of the Composite Data Service Vendor.
 - b. Interexchange Private Line Services may be resold for the purpose of offering an intrastate communications service to others for a profit, subject to the following regulations:
 1. The resale of a Private Line Service may not encompass the conversion of that Private Line Service into Local Exchange Service, Message Telecommunications Service, Wide Area Telecommunications Service or the equivalents thereof.
 2. Orders, including those which involve the start rearrangement, release or discontinuance of service will be accepted by the Company only from the customer.
4. Shared Use of Digital Link Service
 - a. A user must have a service point on the service, and the service point must be located on the premises of the user and connected to the service by means of a separate access channel, except that these requirements do not apply to a user of a service with respect to his use of digital bit streams created by customer- (or user-) provided derivation equipment, provided the customer or user has a service point on the line connected to such equipment in accordance with Paragraph E.2, following.
 - b. The Company shall not be responsible for the manner in which the use of service will be allocated. Orders which involve the start, rearrangement, release or discontinuance of service will be accepted by the Company only from the customer.
 - c. The charges for Digital Link Service shall be determined as provided in this Guidebook, and all charges for the service will be billed to the customer. The charges allocated by the customer for Digital Link Service shall not exceed the total charges billed to the customer by the Company.

REGULATIONS (cont'd)**B. Use (cont'd)**

5. Shared Use of Private Line Service

Interexchange Private Line Service may be Shared in a long term arrangement between the customer and users subject to the following regulations:

- a. The customer may, but does not have to, use the Private Line Service.
- b. The customer is responsible for payment of all charges incurred, that are associated with the service utilized by the customer or sharing arrangement participants.
- c. The customer is responsible for compliance with Guidebook regulations by each participant in a sharing arrangement.
- d. The Company is not responsible for procuring participants for a sharing arrangement.
- e. Sharing arrangements must be nonprofit. The total charges to all participants in a sharing arrangement may not exceed the sum of the Company's charges for the Private Line Service. The allocation of charges to each participant should be on a nonprofit pro-rata basis. Where the customer for a sharing arrangement is organized as a nonprofit entity, a not-for-profit fee, charged solely for the management, may be allocated by the customer among the sharing participants.
- f. The Company shall not be responsible for the allocation of usage of, or charges for, shared Interexchange Private Line Service. Orders, including those which involve the start, rearrangement, release or discontinuance of service, will be accepted by the Company only from the customer.
- g. Sharing of Private Line Service may not encompass the conversion of that Private Line Service into Local Exchange Service, Message Telecommunications Service, Wide Area Telecommunications Service or the equivalents thereof.

REGULATIONS (cont'd)**C. Obligations of the Customer**

1. Customer Responsibilities

The customer shall be responsible for:

- a. Damages to service components of the Company caused by the negligence or willful act of the customer and not due to ordinary wear and tear or other causes beyond the control of the customer.
- b. Reimbursing the Company for a loss through theft of the service components on the customer's premises.
- c. Establishing his identity in the course of any communication as often as may be necessary and/or establishing the identity of the person or persons with whom connection is made at the called service point.
- d. The provision, installation and maintenance of sealed conduit with explosive-proof fittings between service components furnished by the Company in explosive atmospheres and points outside the hazardous area where connection may be made with regular service components of the Company and may be required to install and maintain Company service components within the hazardous area if, in the opinion of the Company, injury or damage to Company employees or property might result from installation or maintenance by the Company.
- e. Obtaining permission for Company agents or employees to enter the premises of the customer at any reasonable hour for the purpose of installing, inspecting, repairing or, upon termination of the service, removing the service components of the Company. No allowance will be made for the period during which the service is interrupted for such purposes.
- f. Service components on the customer's premises shall be and remain the property of the Company.
- g. Furnishing and maintaining poles and/or underground service components on private property. The Company will not provide on-premises service components for the provision of Digital Link Service.
- h. Grounding and/or bonding the premises and any structure in which service is to be provided or used, as well as any equipment and associated wiring.
- i. The provision of appropriate power including the outlet and power wiring when the Company service components installed on the premises of a customer requires power for its operations.

2. Rearrangements and Repairs

A customer may not rearrange, disconnect, remove or attempt to repair or permit others to rearrange, disconnect, remove or attempt to repair any service components or wiring on the Company side of the Demarcation Point, except upon the written consent of the Company.

REGULATIONS (cont'd)**C. Obligations of the Customer (cont'd)**

3. Transfer of Service

Service furnished to one customer may be assumed by a new customer upon due notice of cancellation or abandonment, provided there is no lapse in service. The new customer must assume all the obligations of the previous customer. Such transfers are not subject to service charges if the service is assumed exactly as provided to the previous customer.

4. Intended Use

The purpose or purposes for which the Private Line Service is to be used must be made known to the Company at the time of application for service. In the event of a planned change in use of service, the customer will notify the Company, in writing, prior to the change.

D. Payment Arrangements and Credit Allowances

1. Payment of Charges and Deposits

a. Advance Payments.

Applicants for service who have no account with the Company or whose financial responsibility is not a matter of general knowledge, may be required to make an advance payment at the time an application for service is placed with the Company, equal to the service charges, if applicable, and at least one month's charges for the service provided. The amount of the advance payment is credited to the customer's account as applying to any indebtedness of the customer for the service furnished.

b. Payment for Service

The customer is responsible for payment of all charges for service components and services furnished the customer, including any charges transferred to the customer's account where the customer has executed a Contract of Guaranty for applicant or a present customer. Upon nonpayment of any undisputed delinquent charge, the service may be disconnected in accordance with the provisions of Part 2 – General Terms and Conditions of the Guidebook. Service charges are payable upon request.

c. Deposits

The Company may require an applicant or a present customer to post a deposit in accordance with the provisions of the Rules and Regulations Applying to all Customers' Contracts in Part 2 of the Guidebook.

2. Cancellation for Cause

The Company shall be authorized to discontinue service upon notice from any official charged with the enforcement of the law stating that such service is being used as an instrumentality to violate the law.

REGULATIONS (cont'd)

D. Payment Arrangements and Credit Allowances (cont'd)

3. Minimum and Fractional Rates and Charges

- a. The minimum service period is one month, except when the cost of special construction is such as to necessitate a longer contract period.
- b. If the period of use exceeds one month, the charges for the fractional part of a month following and consecutive with a full month will be a proportionate part of the monthly charges based on the actual number of days the service components are furnished. For the purpose of administering this regulation with respect to the determination of charges for a fractional part of a month, every month is considered to have 30 days.

The applicable charges for a Digital Link Service, or any component thereof, including additions to an existing service, shall commence on the day after service is furnished and will continue to accrue through and include the day on which such service is discontinued.

When an existing Digital Link Service, or any component thereof, is changed or rearranged at the request of the customer without the addition of service components, access lines or channels, any revision in charges necessitated thereby shall commence on the same day that the change or rearrangement is completed.

- c. In applying a rate involving a fraction of a cent, the fraction is carried through the entire computation of the charge for the service. When the charge so computed includes a fraction of a cent, a fraction of less than one-half cent is disregarded and a fraction of one-half cent or more is treated as one cent.

REGULATIONS (cont'd)

D. Payment Arrangements and Credit Allowances (cont'd)

4. Special Construction

- a. Rates and charges for special construction will be provided as set forth in Section 14 of the Access Services Tariff.
- b. Special Construction is that construction undertaken:
 1. Where service components are not presently available, and there is no other requirement for the service components so constructed.
 2. Of a type other than that which the Company would normally utilize in the furnishing of its services.
 3. Over a route other than that which the Company would normally utilize in the furnishing of its services.
 4. In a quantity greater than that which the Company would normally construct to serve the customer's needs.
 5. On a temporary basis until permanent service components are available.
 6. Involving abnormal costs.
 7. In advance of the normal construction on an expedited basis.
- c. A request for charges for special construction will be subject to a special Quotation Charge for the Direct administrative and engineering costs associated with the preparation of that particular quotation. The amount of such charges will be credited to the account of the customer when an order for that particular special construction is received within 90 days of the quotation. The customer will authorize, through a designated representative, the request for a quotation before the Company undertakes any work involved in developing such quotations.

REGULATIONS (cont'd)

D. Payment Arrangements and Credit Allowances (cont'd)

5. Change in Service Arrangement

The service charge for the applicable operating speed applies when the customer requests a change in service arrangement that results in a change in operation of the service components provided by the Company.

The normal charge per channel applies when changing from one type of Private Line Service to another type of Private Line Service.

If a modification of use causes a service to be re-designated from intrastate/intraLATA to interLATA or interstate, such a change is allowed without incurring Termination Charges given the following conditions are met:

- There must be no change in service locations. The new Term Pricing Plan (TPP) must be equal to or longer than the remaining time in the existing TPP.

Upgrades are permitted subject to underlying product Guidebooks.

Nonrecurring charges associated with the service under the new jurisdiction may apply.

6. Suspension of Service

Upon request of the customer, service will be suspended without cancellation at any time after the minimum period of service. Service will be suspended for a period of not less than two weeks and billing shall continue at the full rate. For the purposes of this paragraph, the minimum service period shall be computed from the initial establishment of service or from the date the service was last restored from suspension.

7. Temporary Surrender of a Service

When, at the request of the Company, a service is temporarily surrendered by the customer for other than maintenance purposes, credit will be allowed, the amount of which will be determined in the same manner as for an allowance for interruptions.

REGULATIONS (cont'd)

D. Payment Arrangements and Credit Allowances (cont'd)

8. Allowance for Interruptions

If the service is interrupted other than by the negligence or willful act of the customer, an allowance, as provided following, at the rate for that portion of the customer's service affected by the interruption, shall be made for the time such interruption continues after the fact is reported by the customer or detected by the Company.

- a. No credit is allowed for interruption of less than 24 hours (except for interruptions pursuant to Temporary Surrender of Service). Credit is allowed for the proportionate part of the monthly charge in multiples of one day for each 24 hours of interruption for the portion of the service rendered inoperative.
- b. For purposes of administering this regulation with respect to the determination of allowances for a fractional part of a month, every month is considered to have 30 days.
- c. Long Distance Message Telecommunications Service furnished at a customer's request when his Private Line Service is interrupted is charged for at Long Distance Message Telecommunications Service rates.
- d. For periods of substandard performance as specified in the MegaLink II – Premium Digital Service offering, credit allowance from the time of notice by the customer shall be provided as follows:

<u>Length of Interruptions</u>	<u>Credit</u>
Less than 30 minutes	None
30 minutes up to 3 hours	1/10 day
3 hours up to 6 hours	1/5 day
6 hours up to 9 hours	2/5 day
9 hours up to 12 hours	3/5 day
Over 12 hours	One day

9. Cancellation of Application for Service

Where installation of service components, other than those provided by special construction, has been started prior to the cancellation, the charge specified in Paragraphs a. or b., following, whichever is lower, applies.

- a. A charge equal to the estimated costs incurred in such installation, less estimated net salvage.
- b. The charge for the minimum period of service ordered by the customer is provided in this Guidebook plus the full amount of any termination charges applicable.
- c. Installation of service components for a customer is considered to have started when the Company incurs any expense, including engineering, in connection therewith, or in preparation therefore, which would not otherwise have been incurred, provided the customer has placed an order with the Company for provision of service.

REGULATIONS (cont'd)**D. Payment Arrangements and Credit Allowances (cont'd)**

10. Expedited Order Charge

The following services can be expedited for an additional charge:

- Private Line Services (Channels)
 - MegaLink® - Digital Service
 - MegaLink® 1.5 High Capacity Digital Service
- a. If a customer desires that service be provided on a due date less than the standard interval, which has been established for the order for the provision of the Service, the customer may request that service be provided on an expedited basis.
 - b. The provisioning of the expedited request is based upon available facilities and is limited to twelve (12) two-point or six (6) multi-point DS0 circuits at the same location; and a limit of four (4) DS1 circuits at the same location. Expedited order requests do not apply to services that are jointly provided by the Company and an Independent Telephone Company.
 - c. If the Company installs the service on the requested date the following charges will apply:

Private Line Services
USOC: EODDO
Expedite Order Charge: \$ ICB

MegaLink ® Digital Service
USOC: EODDO
Expedite Order Charge: \$ ICB

MegaLink ® 1.5 High Capacity Digital Service
USOC: EODD1
Expedite Order Charge: \$ ICB

11. Restoration Priority Change

Restoration Priority has been superseded by Telecommunications Service Priority (TSP) System as set forth in Part 8, Section 5. Prior to March 10, 1993, RP and TSP will both be in effect, but no new assignments of RP will be allowed. The existing RP services will be honored and maintained during the interim period between the Initial Operating Capability (IOC) and Full Operating Capability (FOC) of TSP. No order for changes to existing RP circuits will be accepted without a TSP Authorization Code or a definitive statement to remove the RP assignment. On March 10, 1993, the Company will remove all RP assignments that have not been converted to TSP or discontinued free of charge.

REGULATIONS (cont'd)**E. Connections**

1. General

Customer Premises Equipment and Communications Systems provided by the customer may be connected at the customer's premises to Dedicated Communications Services furnished by the Company where such connections are made in accordance with applicable provisions of this Guidebook and Part 2, Section 9 or Part 20, Section 2 (Connections of Terminal Equipment and Communications Systems).

The term "telecommunications services" which is used in this Section, denotes Exchange Service, Long Distance Message Telecommunications Service (LDMTS) and Wide Area Telecommunications Service (WATS).

2. Responsibility of the Customer

- a. The customer shall be responsible for the installation, operation and maintenance of Customer Premises Equipment or Communications System. No combination of Customer Premises Equipment or Communications System shall require change in, or alteration of, the services of the Company, cause electrical hazards to Company personnel, damage to Company service components, malfunction of Company billing equipment or degradation of service to persons other than the user of the subject Customer Premises Equipment or Communications System. Upon notice from the Company that Customer Premises Equipment or Communications System is causing such hazard, damage, malfunction or degradation of service, the customer shall make such changes as shall be necessary to remove or prevent such hazard, damage, malfunction or degradation of service.
- b. The customer shall be responsible for the payment of a nonrecurring Customer Owned Equipment Trouble Isolation Charge, also known as the Maintenance of Service Charge, as found in Part 3, Section 1 (Restoration of Service) for each repair visit to a premises of the customer or the premises of any other customer where the service difficulty or trouble results from the use of equipment or service components provided by the customer.
- c. The customer shall be responsible for ordering and specifying the type of Digital Link Service required for operation with Customer Premises Equipment or Communications Systems provided by the customer.
- d. Where a customer elects to connect a customer-provided communications system to Digital Link Service, the customer shall be responsible for:
 1. Compatibility of the connected communications system to Digital Link Service. This includes the replacing of Network Channel Terminating Equipment (NCTE) due to technological changes in the network.
 2. Testing, sectionalization and clearance of trouble conditions or service difficulties on any communications system which is connected to Digital Link Service.

REGULATIONS (cont'd)

E. Connections (cont'd)

2. Responsibility of the Customer (cont'd)

- e. The customer who provides the premises wiring of Communications Systems for Private Line Service subject to the Federal Communications Commission's Rules and Regulations shall be responsible for the payment of an Institutional Program for Premises Wiring Charge as provided below for activities performed by Company employees at the customer's premises when the premises wiring in question has failed acceptance tests monitored by, or participated in by, the Company pursuant to the Federal Communications Commission's Rules and Regulations and/or has been revealed to be not in conformance with the information provided in the related affidavit which was provided pursuant to the Federal Communications Commission's Rules and Regulations and/or has resulted in a harm to the network.

The Institutional Program for Premises Wiring Charge provided for above is comprised of the first, or a combination of both, rate elements described below, as appropriate:

Element 1

For the first 15 minutes, or fraction thereof, of total time spent by Company employees in the related monitoring or participation in acceptance tests and/or in related inspection of customer-provided premises wiring for Communications Systems subject to the Federal Communications Commission's Rules and Regulations and for administrative expenses including the visit to the customer's premises

USOC: EPC1E \$35.05

Element 2

For each additional 15 minutes, or major fraction thereof, of total time spent by Company employees in performing the related customer-premises activities described in Element 1

USOC: EPCAE \$8.15

REGULATIONS (cont'd)**E. Connections (cont'd)**

3. Responsibility of the Company

- a. Digital Link and Private Line Service is not represented as adapted to the use of the Customer Premises Equipment or Communications Systems. Where such Customer Premises Equipment or Communications Systems are used with Digital Link and Private Line Service, the responsibility of the Company shall be limited to the furnishing of service components suitable for Digital Link and Private Line Service and to the maintenance and operation of such service components in a manner proper for such digital service. Subject to this responsibility, the Company shall not be responsible for: (1) the through transmission of signals generated by the Customer Premises Equipment of Communications System or for the quality of, or defects in, such transmission, or (2) the reception of signals by Customer Premises Equipment or Communications Systems, (3) damage to Customer Premises Equipment or Communications Systems due to testing, or (4) address signaling where such signaling is performed by customer-provided signaling equipment for Private Line Service.
- b. The Company will, at the customer's request, provide information concerning interface parameters needed to permit Customer Premises Equipment to operate in a manner compatible with the telecommunications network.
- c. The Company shall not be responsible for modification, alteration or replacement of Customer Premises Equipment or Communications Systems rendered inoperative or obsolete by changes in service components, operations or procedures of the Company used in providing Digital Link Service. For Private Line Service, if such changes can be reasonably expected to render the Private Line Service incompatible with the telecommunications network or otherwise materially affect its use or performance, the customer or interexchange customer will be given adequate notice in writing to allow the customer an opportunity to maintain uninterrupted service.

4. Violation of Regulations

When any Customer Premises Equipment or Communications System is used with Digital Link Service in violation of any of the provisions in this Section, the Company will take such immediate action as necessary for the protection of the telecommunications network and Company employees and will promptly notify the customer of the violation. The customer shall take such steps as are necessary to discontinue such use of the Customer Premises Equipment or Communications System or correct the violation and shall confirm in writing to the Company within ten days, following the receipt of written notice from the Company, that such use has ceased or that the violation has been corrected. Failure to discontinue such use or to correct the violation and to give the required written confirmation to the Company within the time stated above shall result in suspension of the customer's service until such time as there is compliance with the provisions of this Guidebook.

5. Recording of Two-Way Telephone Conversations

Private Line Services are not represented as adapted to the recording of two-way telephone conversations. When customer-provided voice recording equipment is used with a Private Line Service which is connected to telecommunications services, the provisions relating to Recording of Two-Way Telephone Conversations as set forth in the Connections of Terminal Equipment and Communications Systems in Part 2, Section 9 and Part 20, Section 2 are applicable to such Private Line Services.

REGULATIONS (cont'd)**E. Connections (cont'd)**

6. Connections of Customer Premises Equipment and Communications Systems

- a. The customer shall be responsible for providing any required Digital Network Channel Terminating Equipment (NCTE). The undertaking of the Company is to furnish Digital Link Service as ordered and specified by the customer up to the Demarcation Point.
- b. Unless a specific waiver has been granted by the Federal Communications Commission, or except as otherwise provided in C., following, all connections of registered equipment to services furnished by the Company will be made through a point of demarcation. In most cases, this will be through a Company-provided standard jack. For simple wiring where there is no Company provided standard jack at the Demarcation Point, customers may make connections by direct attachment to Company-installed wiring at points on the customer's side up to and including at the Demarcation Point. In the case of registered communications systems utilizing complex wiring, a method of connection, jacks, terminal strips, etc., will be provided by the Company.
- c. The requirement for the use of standard jacks as described in b., preceding, is waived for registered equipment which is located in hazardous or inaccessible locations.

7. Accessories for Digital Link Service

Accessories provided by customers may be used with Digital Link Service provided that such accessories comply with the provisions of Paragraph E.2., preceding.

8. Channel Derivation Devices

Customer-provided channel derivation devices that are used to create additional Digital Link and Private Line channels in accordance with Paragraphs a. and b., following, may be connected to Digital Link Service subject to Paragraph E.2., preceding and may be connected to Private Line Service subject to Paragraph E.1, E.2, E.3, E.13 and E.14, preceding for Private Line Service.

- a. Subject to the normal transmission characteristics of the Digital Link Service ordered, the customer may create additional channels; digital bit streams, from the service ordered through the use of channel derivation equipment located at the customer's premises.
- b. The Company makes no representation as to: (1) the suitability of the channels provided by it for such subdivision into additional channels by derivation equipment or (2) the suitability of the resultant-derived channels for any communications purpose.
- c. Additional channels derived by this equipment for Digital Link Service may be connected at the customer's premises to Local Exchange Telephone Service, Private Line Service, Long Distance Message Telecommunications Service and Wide Area Telecommunications Service in accordance with provisions for such connections in the Company's Guidebook for these other services.

REGULATIONS (cont'd)

E. Connections (cont'd)

9. Connection to Other Services Furnished by the Company to the Same Customer or Different Customers for Digital Link Service

Digital Link Service provided by the Company may be connected to another Digital Link Service or the following other services provided by the Company at the Customer's premises:

- Local Exchange Telephone Service
- Private Line Service
- Long Distance Message Telecommunications Service
- Wide Area Telecommunications Service

Digital Link Service may be connected to other Digital Link Services provided by the Company at a designated Digital Hub location through the use of certain Additional Service Features available in other Sections of this Guidebook

10. Connection to Interexchange Customer-Provided Communications Systems for Digital Link Service

a. Connections of Digital Link Service to Interexchange Customer-Provided Communications Systems can be made at the premises of the customer in accordance with the preceding regulations in this Guidebook. All arrangements concerning the connection to an Interexchange Customer-Provided Communications System to Digital Link Service shall be made by the customer with the Interexchange Customer. The furnishing of Digital Link Service by the Company is not a joint undertaking with the Interexchange Customer.

- b. The Interexchange Customer referenced in this Section is as follows:

Interexchange Customer

None

11. Connection of Service Components Furnished by the Customer Which Involve Hazardous or Inaccessible Locations for Private Line Service

Service Components furnished by the customer which involve hazardous or inaccessible locations may be connected with Private Line Service furnished by the Company. Such service components furnished by the customer must comply with the minimum protection criteria in Paragraph E.15.e. following.

REGULATIONS (cont'd)**E. Connections (cont'd)**

12. Connection of Network Channel Terminating Equipment for Digital Link Service

Effective January 2, 1986, in accordance with the Federal Communication Commission's Memorandum Opinion and Order in CC Docket 81-216, (FCC 85-564), Part 68 of the Federal Communications Commission's Rules and Regulations (Registration Program), was amended to provide for inclusion of Network Channel Terminating Equipment (NCTE) for direct connection to subrate and high capacity digital services. The following dates and regulations were established.

- a. Grandfathered Equipment - Terminal equipment, including its premises wiring and protective apparatus (if any) and multiline terminating systems that were directly connected to subrate digital services on January 2, 1986, may remain connected and be reconnected to such digital services for life without registration, unless subsequently modified.
- b. Interim Installations - An interim program established by the Federal Communications Commission and the Company allowed for connection of terminal equipment, including premises wiring and protective apparatus (if any) to be installed (including additions to existing systems) up to June 30, 1987, without registration of any terminal equipment involved, provided that these terminal equipments were of a type directly connected to subrate or 1.544 Mbps digital services as of January 2, 1986, or they appeared on the interim program summary for approved equipment. Any equipment connected pursuant to this interim program may require modification at the owner's expense in response to Part 68 of the Rules as adopted by the Federal Communications Commission.
- c. Registered Only Equipment - Any terminal equipment connected to subrate or 1.544 Mbps digital services after June 30, 1987 must comply with Part 68 of the Federal Communications Commission's Rules and Regulations (Registration Program). The equipment must also comply with the requirements of Technical Reference Publications 62411 and/or 62310.

REGULATIONS (cont'd)**E. Connections (cont'd)**

13. Connections of Registered Equipment for Private Line Service

- a. Terminal equipment protective circuitry and communications systems that are registered may be connected to those Private Line Services specified in Paragraphs E.13.b or E.13.c, following, subject to Paragraph E.1, preceding, and this Paragraph E.13; and further subject to Connections of Terminal Equipment and Communications Systems in Part 2, Section 9 and Part 20, Section 2.
- b. The connection may be made only at the premises of the customer or user to Series 300^{/1/} or 400 Private Line Service that present a two-wire or four-wire loop signaling interface for such connection under the following conditions:
 1. Registered terminal equipment, registered protective circuitry and registered Key Telephone Systems may be connected to the service point end of Private Line Services furnished in connection with off-premises service.
 2. Registered PBX Systems may be connected as a trunk termination to the service point end of Private Line Services furnished in connection with off-premises service.
 3. Registered terminal equipment, registered protective circuitry and registered Key Telephone Systems may be connected to CCSA access lines.
 4. A Foreign Exchange channel may be utilized with registered terminal equipment, registered protective circuitry and registered communications systems which are connected to the exchange telephone service associated with such channels.
- c. The connection of registered terminal equipment and registered PBX Systems may be made only at the customer's premises to a Series 300^{/1/} or 400 Private Line Service that presents an interface for a two-wire or four-wire transmission, with separate E & M signaling leads conventionally known as Type I (battery/ground) or Type II (contact closure type). Such E & M signaling leads are those terminal equipment or PBX leads (other than voice or data communications leads) used for the purpose of transferring supervisory or address signals across the interface.
- d. The connection of customer-provided registered terminal equipment and registered PBX Systems may be made only at the premises of the customer to a Series 100, 300^{/1/} or 400 Private Line Service furnished to provide indications of message registration of outgoing calls or Automatic Identification of Outward Dialing (AIOD) to such customer-provided equipment or systems.

In addition, customers who intend to install, perform additions to or make rearrangements of AIOD functions shall give advance notice to the Company in accordance with the procedures specified in the Federal Communications Commission's Rules and Regulations or as otherwise authorized by the Federal Communications Commission.

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

REGULATIONS (cont'd)**E. Connections (cont'd)**

13. Connections of Registered Equipment for Private Line Service (cont'd)

- e. Unless a specific waiver has been granted by the Federal Communications Commission, or except as otherwise provided in f., following, all connections of registered equipment to services furnished by the Company will be made through a point of demarcation. In most cases, this will be through a Company provided standard jack. For simple wiring where there is no Company provided standard jack at the Demarcation Point, customers may make connections by direct attachment to Company installed wiring at points on the customer's side up to and including at the Demarcation Point. In the case of registered communications systems utilizing complex wiring, a method of connection, jacks, terminal strips, etc., will be provided by the Company.
- f. The requirement for the use of standard jacks as described in e., preceding, is waived for registered equipment which is located in hazardous or inaccessible locations.

14. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems for Private Line Service

a. Direct Connections

1. Grandfathered terminal equipment and grandfathered communications systems directly connected to the Private Line Services specified in Paragraph E.13.b., preceding, are subject to regulations in the Connections of Terminal Equipment and Communications Systems in Part 2, Section 9 and Part 20, Section 2. Such connections are subject to the minimum protection criteria set forth in Paragraph E.15.e, following.
2. Grandfathered terminal equipment and grandfathered communications systems directly connected to the Private Line Services specified in Paragraph E.13.c, preceding, on April 30, 1980, may remain connected for the life of the equipment without registration and may be modified only in accordance with the Federal Communications Commission's Rules and Regulations, subject to the following:
 - (a) All such connections shall comply with the minimum protection criteria set forth in Paragraph E.15.e following.
 - (b) No changes may be made to equipment so connected except by the manufacturer thereof or a duly authorized agent of the manufacturer.

REGULATIONS (cont'd)**E. Connections (cont'd)**

14. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems for Private Line Service (cont'd)
 - a. Direct Connections (cont'd)
 3. Until May 1, 1983, new installations of terminal equipment or communications systems which have been grandfathered may be connected for use with the private line services specified in E.13.c or E.13.d, preceding, subject to the following:
 - (a) The customer shall notify the Company when such equipment or systems are to be connected and shall notify the Company when such equipment or 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;
 - (b) All such connections are made through Company-provided standard jacks or are otherwise connected by the Company;
 - (c) All such connections shall comply with the minimum protection criteria set forth in E.15.e, following;
 - (d) Premises wiring associated with communications systems shall conform to the Federal Communications Commission's Rules and Regulations;
 - (e) No changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.
 4. Additions to grandfathered terminal equipment or grandfathered communications systems specified in 2. and 3. preceding may be made, subject to 3. (a) through (e) preceding and to the following:
 - (a) Until May 1, 1983, where the equipment being added is of a type which has been grandfathered, and
 - (b) After May 1, 1983, where the equipment being added is grandfathered.
 - (c) Additions of registered equipment are subject to E.13, preceding.
 5. Systems connected pursuant to Paragraphs E.14.a.2. through 4., preceding, may remain connected and be moved and reconnected, in accordance with Paragraphs E.14.a.3.a. through e., preceding, for the life of the equipment and may be modified only in accordance with the Federal Communications Commission's Rules and Regulations.
 6. Customer Premises Equipment and customer-provided communications systems connected via customer-provided grandfathered protective circuitry are subject to the provisions of Paragraphs E.14.a.1. through 5., preceding.

REGULATIONS (cont'd)**E. Connections (cont'd)****14. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems for Private Line Service (cont'd)****b. Connections Through Connecting Arrangements Provided by the Company**

1. Grandfathered connections of terminal equipment and grandfathered connections of communications systems to the private line services specified in Paragraph E.13.b., preceding, are subject to 'Connections of Grandfathered Terminal Equipment' in Part 2, Section 9 and Grandfathered Communications Systems, in Part 20, Section 2 of the Guidebook. Such connections are subject to the minimum protection criteria set forth in Paragraph E.15.e., following.
2. Grandfathered connections of terminal equipment and grandfathered connections of communications systems to the private line services specified in Paragraphs E.13.c and d., preceding, are subject to the following:
 - (a) Until May 1, 1983, the Company will provide connecting arrangements for installations of new Customer Premises Equipment or Communications Systems that are subject to the Federal Communications Commission's Rules and Regulations.

However, after May 1, 1983, Company-provided connecting arrangements will only be provided, to the extent that such connecting arrangements are available, to reconnect terminal equipment or communications systems which were previously connected to the private line services specified in Paragraphs E.13.c. or d., preceding, through connecting arrangements prior to May 1, 1983.

- (b) Grandfathered connections of terminal equipment and grandfathered connections of communications systems made in accordance with Paragraph E.14.b.2.(a), preceding, may remain connected and be moved and reconnected for the life of the equipment and may be modified only in accordance with 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 Part 20, Section 2.
 - (c) Network control signaling shall be performed by the connecting equipment furnished, installed and maintained by the Company, except that customer-provided tone-type address signaling is permissible through the Company-provided connecting arrangement.
 - (d) The connections specified in Paragraph E.14.b.2.(a) through (c), preceding, must comply with the minimum protection criteria specified in Paragraph E.15.e., following.

REGULATIONS (cont'd)**E. Connections (cont'd)**

15. Connections of Customer Premises Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program for Private Line Service

a. General

1. Connecting arrangements are not required and minimum protection criteria are not applicable where Customer Premises Equipment or Communications Systems are connected with the following channels when such channels are used for the types of transmission specified herein due to the nature of the service provided and/or the type of channels and equipment used:
 - Series 100
 - Series 200
 - Series 400
 - Channels for Program Transmission in Connection with Loudspeaker and Sound Recording
 - Video Channels (Provided via Special Assembly Request for Closed Circuit TV)
2. Except as otherwise provided in Paragraphs E.13 and E.14, preceding, Customer Premises Equipment and Communications Systems may be electrically connected to Private Line Services in accordance with Paragraph E.15.
 - (a) When the Customer Premises Equipment or Communications System is connected with Private Line Service furnished by the Company and such Private Line Service is not arranged for connection to telecommunications services, such connections shall be made to a Demarcation Point provided by the Company.
 - (b) When the Customer Premises Equipment or Communications System is connected with Private Line Service furnished by the Company and such Private Line Service is arranged for connection to telecommunications services:
 1. Except as otherwise specified in Paragraph D.15.d.1.(d), following, such connections shall be made through a connecting arrangement as provided in Paragraph E.15, and
 2. The connection shall be such that the functions of the network control signaling (except customer-provided tone-type address signaling through a Company-provided connecting arrangement) are performed by service components furnished by the Company.
 - (c) Customer Premises Equipment or Communications Systems connected pursuant to Paragraphs E.15.a.2.(a) or (b), preceding, must comply with the minimum protection criteria specified in Paragraph E.15.e., following.

REGULATIONS (cont'd)**E. Connections (cont'd)**

15. Connections of Customer Premises Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program for Private Line Service (cont'd)

b. Data Terminal Equipment

1. Direct Electric Connections

(a) Customer-provided data terminal equipment which involves direct electrical connection to service components furnished for Private Line Service by the Company may be used with such service components for such purpose under the conditions set forth below:

1. The customer shall be responsible for ordering and specifying the type channel and the channel conditioning for operation with data processing equipment provided by the customer. The undertaking of the Company is to furnish the type channel and channel conditioning as ordered and specified by the customer.
2. Except as otherwise specified in Paragraph E.15.b.1.(a).3, following, when the connection of customer-provided data terminal equipment requires the use of data sets, the data sets will be provided by the customer. With the customer providing his own data set(s) on a given Private Line Service, it shall be the responsibility of the customer to ensure the continuing compatibility of such data set(s) with the service components furnished by the Company.
3. To protect the telecommunications network, the connection of customer-provided data terminal equipment to Private Line Service provided by the Company, when such Private Line Service is arranged for connection to telecommunications services, shall be through a connecting arrangement as described below:

a. DATAPHONE Data Sets

With the customer providing data terminal equipment and the DATAPHONE Data Set, the Company will provide equipment to perform the function of:

- Conditioning the data signals generated by the customer-provided equipment to signals suitable for transmission by means of Company service components.
- Conditioning signals transmitted by means of Company service components to data signals suitable for reception by customer-provided equipment, and
- Network control signaling when required in accordance with Paragraph E.15.a., preceding, and Paragraph E.15.e., following.

b. Data Access Arrangement

With the customer providing and using data terminal equipment through a data access arrangement, the customer shall furnish the equipment which performs the functions of data signal conditioning referred to above, and the Company shall furnish the data access arrangement for use with the network control signaling unit.

REGULATIONS (cont'd)

E. Connections (cont'd)

15. Connections of Customer Premises Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program for Private Line Service (cont'd)

b. Data Terminal Equipment (cont'd)

1. Direct Electric Connections (cont'd)

(a) (cont'd)

4. With the data access arrangement being furnished with Customer Premises Equipment and such premises equipment is used for both voice and data communications, the data access arrangement will be used to connect the Customer Premises Equipment for voice communication.

c. Voice Terminal Equipment

1. Customer-provided voice terminal equipment may be connected at the customer's premises to Private Line Service in accordance with the following when such Private Line Service is arranged as provided in Paragraph E.15.a.2.(b), preceding.

(a) The connection shall be made through a network control signaling unit and a connecting arrangement furnished by the Company.

(b) With the data access arrangement being furnished in connection with Customer Premises Equipment and such premises equipment is used for both voice and data communication, the data access arrangement will be used to connect the Customer Premises Equipment for voice communication.

2. Attested Equipment and Conforming Answering Devices may be used with Private Line Service subject to the provisions of the Connections of Terminal Equipment and Communications Systems in Part 2, Section 9 and Part 20, Section 2 of the Guidebook.

REGULATIONS (cont'd)**E. Connections (cont'd)**

15. Connections of Customer Premises Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program for Private Line Service (cont'd)

d. Communications Systems

1. Customer-provided communications systems (other than communications systems connected pursuant to Paragraphs E.13 and E.14, preceding) may be connected to Private Line Service in accordance with Paragraph E.15.d.1. These communications systems (including channels derived from such systems) not exceeding voice grade may be connected at the customer's premises where the customer has a regular and continuing requirement for the origination or termination of communications over the customer-provided communications systems provided that:
 - (a) The normal mode of operation of the customer-provided communications systems shall be to provide communications originating or terminating at the premises on which the connection is made.
 - (b) The connection shall be made through switching equipment provided by the customer.
 - (c) The connection shall be to channels of voice grade or less or to channels created therefrom in accordance with the provisions of Paragraph E.8, preceding.
 - (d) When the Private Line Service is arranged as provided in Paragraph E.15.a.2.(b), preceding, the connection is made through:
 1. a connecting arrangement provided by the Company, or
 2. registered or grandfathered terminal equipment, communications system or protective circuitry which, either singularly or in combination, assures that the requirements of the Federal Communications Commission's Rules and Regulations are met at the private line Demarcation Point.

Minimum protection criteria as set forth in Paragraph E.15.e., following, must be complied with when the connection is made through equipment or systems that are not registered.

In lieu of these requirements for total hardware protection, an optional, alternative method as described in Paragraph E.15.d.1.(e), following, is available for the control of signal power only.

REGULATIONS (cont'd)**E. Connections (cont'd)**

15. Connections of Customer Premises Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program for Private Line Service (cont'd)

d. Communications Systems (cont'd)

1. (cont'd)

(e) When customer-provided communications systems not subject to the Federal Communications Commission's Rules and Regulations are connected to Private Line Services that are arranged as provided in Paragraph E.15.a.2.(b), preceding, and the connection is through (a) a Company-provided connecting arrangement or (b) registered or grandfathered terminal equipment, communications system or protective circuitry which assures that all of the requirements of the Federal Communications Commission's Rules and Regulations are met at the Private Line Service Demarcation Point, no further action is required. However, when a customer elects to connect a communications system to Private Line Service and the registered or grandfathered equipment, system or protective circuitry through which the connection is made does not provide protection for signal power control, the customer must comply with the following institutional procedures:

1. The customer-provided communications system must be installed, operated and maintained so that the signal power (within the frequency range of 200-4000 Hertz) at the Private Line Service Demarcation Point continuously complies with the Federal Communications Commission's Rules and Regulations.
2. The operator(s)/maintainer(s) responsible for the establishment, maintenance and adjustment of the voice frequency signal power present at the Private Line Service Demarcation Point must be trained to perform these functions by successfully completing one of the following:
 - a. a training course provided by the manufacturer of the equipment used to control voice frequency signal power; or
 - b. a training course provided by the customer or authorized representative, who has responsibility for the entire communications system, using training materials and instructions provided by the manufacturer of the equipment used to control the voice frequency signal power; or
 - c. an independent training course (e.g., trade school or technical institution) recognized by the manufacturer of the equipment used to control the voice frequency signal power; or
 - d. in lieu of the preceding training requirements, the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with Paragraphs E.15.d.1.(a) through (c), preceding.

Upon request, the customer is required to provide the proper documentation to demonstrate compliance with these requirements.

REGULATIONS (cont'd)**E. Connections (cont'd)**

15. Connections of Customer Premises Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program for Private Line Service (cont'd)

d. Communications Systems (cont'd)

1. (cont'd)

(e) (cont'd)

3. At least 10 days' advance notice must be given to the Company in the form of a notarized affidavit before the initial connection of the customer-provided communications system. A copy of the affidavit must also be maintained at the customer's premises. The affidavit must contain the following information:
 - a. The full name, business address, business telephone number and signature of the customer or authorized representative who has the responsibility for the operation and maintenance of the communications system.
 - b. The line(s) which the communications system will be either connected to or arranged for connection to.
 - c. A statement that all operations associated with the establishment, maintenance and adjustment of the signal power present at the Private Line Service Demarcation Point will comply with the Federal Communications Commission's Rules and Regulations.
 - d. A statement describing how each operator/maintainer of the communications system will meet and continue to meet the training requirements for persons installing, adjusting or maintaining the communications system.

(f) Extraordinary Procedures

1. The Company may invoke extraordinary procedures to protect the Private Line Service where one or more of the following conditions are present:
 - a. Information provided in the affidavit gives reason to believe that a violation of the Federal Communications Commission's Rules and Regulations or the Institutional Procedures set forth in Paragraph E.15.d.1.(e), preceding is likely.
 - b. Harm has occurred and there is reason to believe this harm was a result of operations performed under the Institutional Procedures set forth in Paragraph E.15.d.1.(e), preceding.

REGULATIONS (cont'd)

E. Connections (cont'd)

15. Connections of Customer Premises Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program for Private Line Service (cont'd)

d. Communications Systems (cont'd)

1. (cont'd)

(f) Extraordinary Procedures (cont'd)

2. The extraordinary procedures which can be invoked by the Company include:

a. Requiring the use of protective apparatus which either protects solely against signal power or which assures that all of the requirements of the Federal Communications Commission's Rules and Regulations are met at the Private Line Service Demarcation Point. This protective apparatus may be provided by either the Company or the customer.

b. Disconnecting service.

3. A charge equal to the Maintenance of Service Charge as provided in Paragraph E.2.e, preceding, will apply when:

a. It is necessary to send a Company employee to the premises where the connection is made because a condition set forth in Paragraph E.15.d.1.(f).1, preceding, exists, and

b. A failure to comply with the Federal Communications Commission's Rules and Regulations or the Institutional Procedures for signal power control in Paragraph E.15.d.1.(e), preceding, is disclosed.

REGULATIONS (cont'd)**E. Connections (cont'd)**

15. Connections of Customer Premises Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program for Private Line Service (cont'd)

- e. Minimum Protection Criteria for Electrical Connections
 - 1. Since Private Line Services utilize Company channels and service components in common with other services, it is necessary in order to prevent excessive noise and crosstalk that the power of the signal applied to the Company Private Line Service is individually engineered. A single-valued limit for all applications cannot be specified. Therefore, the power of the signal in the band above 300 Hertz which may be applied by the customer-provided equipment to the network interface will be specified by the Company for each application to be consistent with the signal power allowed on the telecommunications network.
 - 2. To protect other services, it is necessary that the signal which is applied by the customer-provided equipment to the Company Demarcation Point located on the customer's premises meet the following limits:
 - (a) The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18dB below the power of the signal as specified in Paragraph 1.6.4, F.1., above.
 - (b) The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16dB below one milliwatt.
 - (c) The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24dB below one milliwatt.
 - (d) The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36dB below one milliwatt.
 - (e) The power in the band above 40,000 Hertz shall not exceed 50dB below one milliwatt.
 - 3. Where there is connection to telecommunications services to prevent the interruption or disconnection of a call or interference with network control signaling, it is necessary that the signal applied by the customer-provided equipment to the Company Demarcation Point located on the customer's premises at no time has 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.

REGULATIONS (cont'd)

E. Connections (cont'd)

15. Connections of Customer Premises Equipment and Communications Systems Not Subject to the Federal Communications Commission's Registration Program for Private Line Service (cont'd)

e. Minimum Protection Criteria for Electrical Connections (cont'd)

4. With Customer Premises Equipment being utilized, signals having components in the frequency spectrum below 300 Hertz, excluding ringing signals, the currents and voltages (including all harmonics and spurious signals) at the Demarcation Point shall not exceed the limits indicated in Paragraphs E.15.e.4.(a) through (d), following:

- (a) The maximum rms (root-mean-square) value, including dc and ac components of the current per conductor will be specified by the Company, but in no case will the specified value exceed 0.35 ampere.
- (b) The magnitude of the peak of the conductor to ground voltage shall not exceed 70 volts.
- (c) The conductor-to-conductor voltage shall be such that the conductor- to-ground voltage limit in b., above, is not exceeded. If the signal source is not grounded, the voltage limit in Paragraph E.15.e.4.(b), above, applies to the conductor-to-conductor voltage.
- (d) The total weighted rms voltage within the band from 50 Hertz to 300 Hertz shall not exceed 100 volts. The total weighted rms voltage is the square root of the sum of the products of the weighting factors for the individual frequency components times the square of the rms voltage of the individual frequency components. The weighting factors are as indicated:

<u>for frequencies between</u>	<u>weighting factor</u>
50 Hertz and 100 Hertz	$f^2/10^4$
100 Hertz and 300 Hertz	$f^{3.3}/10^{6.6}$

where f is the numerical value of the frequency, in Hertz, of the frequency component being weighted.

REGULATIONS (cont'd)**E. Connections (cont'd)****16. Connections of Certain Facilities of Power, Pipeline and Railroad Companies for Private Line Service^{/1/}**

Service components of an electric power company, an oil, oil products or natural gas pipe line company, or a railroad company provided primarily to communicate with points located along a right-of-way (including premises of such company anywhere in cities, towns or villages along the right-of-way) owned or controlled by such company may, in lieu of the provisions of Paragraphs E.14 and E.15.d., preceding, be connected with services furnished by the Company to the same customer, subject to the following:

- a. Such connections will be made by means of switching or connecting equipment furnished by the Company.
- b. Such customer telephone service components will be connected to private line services furnished by the Company for voice transmission and utilizing a Series 300^{/1/} or 400 channel when furnished to the same customer, for communications with service points associated with such services; provided, however, that service components of the customer will not be connected to a local or toll central office line to form a through connection except as follows:
 1. In cases of emergency involving safety of life or property;
 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 the customer service components serve locations where it is impracticable because of hazard or inaccessibility for the Company to furnish its service components; and
 4. During an interim period in cases where the customer has arranged for replacement of said customer service components with service components of the Company.
- c. Telephone circuits of such companies will be connected to a local or toll central office line to form a through connection only through manual switching equipment or an attendant's position of dial PBX equipment. Such equipment or position may be located at either or both ends of the customer's circuit.

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

REGULATIONS (cont'd)**E. Connections (cont'd)**16. Connections of Certain Facilities of Power, Pipeline and Railroad Companies for Private Line Service^{/1/} (cont'd)

- d. Connection of a telephone circuit of such companies as specified in Paragraph E.16.b.2., 3. or 4., preceding, may be established at either end of such circuit, but shall not be established at both ends simultaneously.
- e. Customer teletypewriter or Morse, telephotograph, data transmission, remote metering, supervisory control or miscellaneous signaling service components will be connected to Private Line Service furnished by the Company for such purposes to the same customer.
- f. Company-provide private line services, when connected with service components of the customer, will not be used for communication of other than the customer, except that such services may be used for the communications of, and be connected with services furnished by the Company, to other companies which:
 - 1. are operated with the customer as parts of an integrated electric power, oil, oil products or natural gas system or railroad system under direct or common ownership or control; or
 - 2. own or operate an electric power or pipe line or railroad service components interconnected with those of the customer.

Company-provided line services when so connected may be connected to a local or toll central office line to form a through connection for communications of other companies specified in Paragraph E.16.f.1. or 2., preceding, including calls originated by employees of such companies only under the circumstances set forth in Paragraphs E.16.b.1. and 2., preceding.

- g. Customer Premises Equipment and Communications Systems connected to the private line services specified in Paragraphs 1.6.2, B., preceding, in accordance with Paragraphs E.16.a. through f., preceding, prior to January 1, 1980, may remain connected and be moved and reconnected for the life of the equipment without registrations unless subsequently modified. New installations of Customer Premises Equipment or Communications systems subject to the Federal Communications Commission's Rules and Regulations connected to such private line services must meet the requirements of the Federal Communications Commission's Rules and Regulation.
- h. Effective May 1, 1983, new installations of or additions to Customer Premises Equipment and Communications Systems subject to the Federal Communications Commission's Rules and Regulations, connected to the private line services specified in Paragraph E.13.c. or d., preceding, in accordance with Paragraphs E.16.a. through f., preceding, must meet the requirements of the Federal Communications Commission's Rules and Regulations.

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

REGULATIONS (cont'd)**E. Connections (cont'd)**17. Connections of Certain Facilities of the U.S. Army, Navy and Air Force for Private Line Service^{/1/}

Service components of the U. S. Department of the Army, Navy or Air Force will be connected with services furnished by the Company, in lieu of the provisions of Paragraphs E.14 and E.15.d, preceding, as provided in Paragraphs E.18.a. and b., following, where the Secretary of the appropriate department or his authorized representative, notifies the Company in writing that such connection is required for reasons of military necessity. Such connections will be made by means of switching or connecting equipment furnished by the Company.

- a. Telephone service components of the aforesaid Departments will be connection to private line services furnished by the Company for voice transmission and utilizing a Series 300^{/1/} or 400 channel for communications with service points associated with such services; provided, however, that such department service points will not be connected to a local or toll central office line to form a through connection, except in cases of emergency involving safety of life or property, unless such service components are provided in locations where it is impracticable for the Company to furnish its services.
- b. Teletypewriter or Morse, telephotograph, data transmission, remote metering, supervisory control or miscellaneous signaling service components of the aforesaid departments will be connected to private line services furnished for such purposes.
- c. Customer Premises Equipment and Communications Systems connected to the Private Line Services specified in Paragraph E.13.b., preceding, in accordance with Paragraphs E.17.a. and b., preceding, prior to January 1, 1980, may remain connected and be moved and reconnected for the life of the equipment without registration unless subsequently modified. New installations of Customer Premises Equipment or Communications Systems subject to the Federal Communications Commission's Rules and Regulations connected to such Private Line Services must meet the requirements of the Federal Communications Commission's Rules and Regulations.
- d. Effective May 1, 1983, new installations of, or additions to, Customer Premises Equipment and Communications Systems subject to the Federal Communications Commission's Rules and Regulations, connected to the Private Line Services specified in Paragraph E.13.c. or d., preceding, in accordance with Paragraphs E.17.a. and b., preceding, must meet the requirements of the Federal Communications Commission's Rules and Regulations.

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

REGULATIONS (cont'd)**E. Connections (cont'd)**

18. Connection of Services Furnished by the Company to Different Customers for Private Line Service

- a. A Private Line Service furnished to a customer may be connected:
- With a Private Line Service furnished to a branch or agency of the United States Government for the purposes specified under Paragraphs E.18.a.1. and 2., following, provided such connection is authorized by the branch or agency to whose service the connection is made and connections are made by means of connecting or switching arrangements furnished by the Company, or
 - With a Private Line Service, Long Distance Message Telecommunications Service, Local Exchange Service or WATS access line furnished to a different customer.
 - As specified following, when connections involve (1) channels for program transmission in connection with loudspeaker and sound recording (2) channels of voice grade or less when these are furnished for data transmission to one customer with connection to channels created by another customer or (3) teletypewriter private lines furnished to the U.S. Army, which may be connected to Associated Press and United Press International private lines for teletypewriter transmission, used in establishing an Emergency Action Notification System.

Connections, as specified above, will be provided only when the same types of channels (except long distance message telecommunications service, local exchange service or WATS lines are involved) are connected and the same forms of electrical communication are used over the connected channels.

1. Where the private line service is furnished to the Government for teletypewriter transmission for the collection and dissemination of (a) weather information (b) miscellaneous airways information pertaining to the supervision of the flight of aircraft along the civil airways, or (c) agricultural and farm market information, connection may be made as follows:
 - (a) Receiving-Only Service - for reception of weather and miscellaneous airways information and agricultural and farm market information transmitted over the Government service to which it is connected.
 - (b) Sending and Receiving Service - for transmission of flight plans to and acknowledgment of such plans from the Government service to which connection is authorized.
2. Where the private line utilizes a voice grade data channel and is furnished to the Government for data transmission for the collection and dissemination of weather information and for the collection and dissemination of data relating to national defense, connection may be made for such purposes.

REGULATIONS (cont'd)

E. Connections (cont'd)

18. Connection of Services Furnished by the Company to Different Customers for Private Line Service (cont'd)

a. (cont'd)

(D)
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(D)

- 3. Channels of voice grade or less furnished by the Company to one customer may be connected to channels created by another customer from a channel in accordance with Paragraph E.8, preceding; channels have been created by the other customer. (C)
- 4. Private lines for teletypewriter transmission furnished to the U. S. Army may be connected to private lines for teletypewriter transmission to the Associated Press and United Press International for the purpose of establishing an Emergency Action Notification System provided that said customers agree to such connections. Connections will be made by means of service components provided by the Company. (C)

19. Connection of Services Furnished by the Company with Services of Interexchange Customers for Private Line Service

The connection of Private Line Services and service components furnished by the Company with services of an interexchange customer(s) shall be in accordance with the rules and regulations found in the Access Services Tariff and in this Guidebook.

20. U.S. Government Departments and Agencies - Private Line Service^{/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 services, subject to the regulations and conditions below:

- a. 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.
- b. The Government equipment shall be so constructed, maintained and operated as to work satisfactorily with the service components of the Company.
- c. The connection shall be made by means of service components by the Company, subject to the provisions of Paragraph E.14, preceding.

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

REGULATIONS (cont'd)**E. Connections (cont'd)****21. Connection of Services Furnished by the Company to the Same Customer for Private Line Service**

A Private Line Service furnished by the Company may be connected to another private line furnished by the Company or by the Company and its interexchange customers or to another service provided by the Company as specified in a. through g., following:

- a. A Private Line Service may be connected to another private line if the forms of electrical communication for which they are being used are the same. These private lines may be connected at the premises of the customer, with a common service point on both private lines.

All connections will be made through connecting arrangements furnished in connection with channel switching arrangements provided by the Company or through switching equipment provided by the customer, except as otherwise provided b., following.

- b. Reserved for Future Use (C)
- c. Channels created by the customer in accordance with the provisions of Paragraph E.8, preceding, may be connected at the customer's premises:
 - To channels of voice grade or less and furnished by the Company, and the channels created therefrom as authorized in Paragraph E.8, preceding.

The connection of channels specified above is subject to the regulations contained in Paragraph E.1, E.2, E.3, E.13 and E.14, preceding.

- d. A voice grade Private Line Service for voice communication or other types of voice grade channels, when used alternately for voice transmission and when in the voice mode, may be connected at a PBX or other switching or connecting arrangements to Long Distance Message Telecommunications Service, Local Exchange Service or WATS access lines to form a through connection over the private and exchange lines where service component conditions permit. It is not contemplated that more than one such type of connection will be established simultaneously, and transmission is not represented as adapted to such connections.

When a two-point Private Line Service or a multipoint Private Line Service arranged for service solely between two points utilizing the above type channels is used for transmission of data, through connections over the private and exchange lines may also be established as described above.

REGULATIONS (cont'd)**E. Connections (cont'd)****21. Connection of Services Furnished by the Company to the Same Customer for Private Line Service (cont'd)**

- e. The telecommunications network may be used in conjunction with channels for medium speed facsimile transmission to extend the transmission and reception of pictures and similar material for publication, subject to the rates and regulations specified in the General Exchange Tariff and Part 2 – General Terms and Conditions of the Guidebook. No direct connection of the telecommunications network shall be made to the above-type channels at the premises of the customer, except where protective connection equipment is provided for this purpose by the Company.
- f. Channels of less than voice grade may be connected at the customer's premises to Long distance Telecommunications Service, Local Exchange Service or a WATS access line through switching equipment provided by the customer or through Company service components. The connection shall be through a data set or a data access arrangement and shall be such that the function of network control signaling is performed by service components furnished, installed and maintained by the Company.

22. Connections of Customer-Provided Test Equipment for Private Line Service**a. Totally Protective Connections**

1. Customer-provided test equipment may be connected to those Private Line Services specified in Paragraph E.13, preceding, at the premises of the customer through registered or grandfathered terminal equipment, protective circuitry or communications systems subject to the Federal Communications Commission's Rules and Regulations which, either singularly or in combination, assure that all of the requirements of the Federal Communications Commission's Rules and Regulations (total protection) are met at the Private Line Service Demarcation Point.
2. Customer-provided test equipment may be connected to those Private Line Services specified in Paragraph E.15.a.2., preceding, at the premises of the customer either (a) directly at the Private Line Service Demarcation Point or (b) through other equipment, provided that the minimum protection criteria specified in Paragraph E.15.e., preceding, is continually met at the Private Line Service Demarcation Point.

b. Program for Connections of Customer-Provided Test Equipment

Customer-provided test equipment may also be connected at the premises of the customer to those Private Line Services specified in Paragraph E.13, preceding, either (a) directly at the Private Line Service Demarcation Point or (b) through terminal equipment, protective circuitry or communications systems subject to the Federal Communications Commission's Rules and Regulations which do not provide protection for signal power control under the following program provided that:

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

REGULATIONS (cont'd)

E. Connections (cont'd)

22. Connections of Customer-Provided Test Equipment for Private Line Service (cont'd)

b. Program for Connections of Customer-Provided Test Equipment (cont'd)

2. The customer-provided test equipment is of a type that was lawfully directly connected to Private Line Service as of March 6, 1981. Such test equipment may remain connected, be moved or reconnected during the life of the test equipment unless it has been subsequently modified.
3. Direct connection of customer-provided test equipment or connections through Telephone Company-provided terminal equipment or communications systems subject to the Federal Communications Commission's Rules and Regulations are made through Company-provided jacks or as otherwise authorized by the Company.
4. Customer-provided test equipment must be operated in accordance with the Institutional Procedures for Signal Power Control as specified in Paragraph E.22.c., following.
5. The customer notifies the Company of each Private Line Service at each premises to which the customer-provided test equipment will be connected in advance of the initial connection. The customer must also notify the Company when such test equipment is permanently disconnected at each premises.
6. No customer-provided test equipment or combination of test equipment with terminal equipment, protective circuitry or communications systems subject to the Federal Communications Commission's Rules and Regulations (including but not limited to wiring) may cause electrical hazards to Company personnel, damage to Company equipment, malfunction of Company billing equipment, or degradation of service to persons other than the use of the subject test equipment or the user's calling or called party.

REGULATIONS (cont'd)

E. Connections (cont'd)

22. Connections of Customer-Provided Test Equipment for Private Line Service (cont'd)

c. Institutional Procedures for Signal Power Control

1. In accordance with Paragraph E.22.b.4., preceding, the customer must comply with the following Institutional Procedures:
 - (a) The customer must install, operate and maintain the test equipment so that its signal power at the Private Line Service Demarcation Point complies with the Federal Communications Commission's Rules and Regulations.
 - (b) The operator(s)/maintainer(s) responsible for the test equipment signal power present at the Private Line Service Demarcation Point must be trained to perform these functions by successfully completing one the following:
 1. A training course provided by the manufacturer of the test equipment, or
 2. A training course provided by the customer, or authorized representative of the customer, using training materials and instructions provided by the manufacturer of the test equipment, or
 3. An independent training course (e.g., trade school or technical institution) recognized by the manufacturer of the test equipment, or
 4. In lieu of the preceding training requirements, the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with Paragraph E.22.c.1.(b).1. through 3., preceding.

Upon request, the customer is required to provide proper documentation to demonstrate compliance with the requirements in Paragraph E.22.c.1.(b).

REGULATIONS (cont'd)

E. Connections (cont'd)

22. Connections of Customer-Provided Test Equipment for Private Line Service (cont'd)

c. Institutional Procedures for Signal Power Control (cont'd)

1. (cont'd)

(c) Advance notice must be given to the Company in the form of a notarized Affidavit before the initial connection of the customer-provided test equipment at each premises after April 9, 1981. A copy of the Affidavit must also be maintained at the customer's premises. The affidavit must contain the following information:

1. The full name, business address, business telephone number and signature of the customer or authorized representative who has responsibility for the operation of the test equipment.
2. The line(s) to which the test equipment will be either connected to or arranged for connection to.
3. A statement that all operations associated with the establishment, maintenance and adjustment of test equipment signal power present at the Private Line Service Demarcation Point will comply with the Federal Communications Commission's Rules and Regulations.
4. A statement describing how each operator of the test equipment will meet and continue to meet the training requirements for persons installing, connecting, adjusting or maintaining the test equipment.

2. Extraordinary Procedures

(a) The Company may invoke extraordinary procedures to protect the telecommunications network where one or more of the following conditions are present:

1. Information provided in the Affidavit gives reason to believe that a violation of the Federal Communications Commission's Rules and Regulations or the Institutional Procedures set forth in Paragraph E.22.c.1., preceding, is likely.
2. Harm has occurred, and there is reason to believe this harm was a result of operations performed under the Institutional Procedures set forth in Paragraph E.22.c.1., preceding.

REGULATIONS (cont'd)

E. Connections (cont'd)

22. Connections of Customer-Provided Test Equipment for Private Line Service (cont'd)

c. Institutional Procedures for Signal Power Control (cont'd)

2. Extraordinary Procedures (cont'd)

(b) The extraordinary procedures which can be invoked by the Company include:

1. Requiring the use of protective apparatus which either protects solely against excessive signal power or which assures that all of the requirements of the Federal Communications Commission's Rules and Regulations are met at the Private Line Service Demarcation Point.
2. Disconnecting service.

(c) A charge equal to the Maintenance of Service Charge will apply when:

1. It is necessary to send a repair person to the premises where the test equipment is connected because a condition as set forth in Paragraph E.22.c.2.(a), preceding, exists, and
2. A failure to comply with the Institutional Procedures for signal power control is disclosed.

REGULATIONS (cont'd)

F. Method of Applying Rates

1. General

The method of applying rates for Digital Link Service channels and Additional Service Features is provided in following sections of this Guidebook. (C)
(C)

2. Digital Link Service and Private Line Service Exceptions

In those cases where one customer premises involved in an intraLATA interexchange Digital Link Service or Private Line Service is located in a different Local Exchange Telephone Company's operating territory than the other premises location(s) associated with the service, the method of applying rates will be as follows:

- a. The service components for that portion of the intraLATA interexchange Digital Link Service located wholly within each exchange will be rated pursuant to the Guidebook.
- b. The rate for the applicable intraLATA interoffice (or interexchange, for Private Line Service) per mile mileage will be the rate in Part 4 of the Guidebook. Each Company's charge for the per mile mileage element is based on the route mile ownership ratio multiplied by the Company's rate for the airline (V-H) mileage between the customer's Serving Offices, the Serving Office and a Digital Hub or between Digital Hubs.
- c. For Digital Link Service, the rate for the applicable intraLATA interoffice fixed mileage will be one-half (50 percent) of the rate in the Guidebook.

In those cases where an intraLATA intraexchange Digital Link Service or Private Line Service has service components in Missouri and another state, the method of applying rates in Paragraphs F.1 and F.2 is modified to apply the charges for that portion of the Digital Link Service located in the other state pursuant to the state's tariff and guidebook.

REGULATIONS (cont'd)**F. Method of Applying Rates (cont'd)**

3. Private Line Service Exceptions

The method of applying rates for intraLATA interexchange and intraLATA intraexchange Private Line Service involving two-point and multipoint services for Series 100, Series 200, Series 300^{/1/}, and Series 400 are determined as follows:

(C)

a. Local Channel

Two-Point

A local channel charge shall apply for the first channel termination, per service, involved on a customer premises. The following have only one local channel: 414B, 414C, 415, 417A, 417B, 432, 437, 442, and 443.

(C)

The following may have only one local channel when terminated in a Network Reconfiguration Service^{/4/} provided by the Company: 311^{/1/}, 320^{/1/}, 420, 422, 423, 424, 425 and 435.

Multipoint

In addition to applicable Private Line Service Charges, a bridging charge, per channel bridged, applies when three or more voice grade channels connect at the same location. Bridging charges do not apply to Foreign Exchange, Foreign Service Office and Types 312^{/2/}, 415, 417A, 417B, 432, 437, 442, and 443.

(C)

b. IntraLATA Interoffice Channel^{/3/}Two-Point

Intraexchange - When the Demarcation Points of an intraLATA intraexchange Private Line Service are located in different serving office areas, interoffice mileage charges apply. Charges are based on the Vertical and Horizontal (V-H) distance between the serving offices.

Interexchange - When the Demarcation Point of an intraLATA interexchange Private Line Service is located in an area served by a serving office that is not also the primary serving office, interoffice mileage charges apply. Charges are based on the V-H distance between the primary serving office and the serving office.

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

/2/ Obsolete – applicable to existing installations at existing locations for existing locations for existing customers. Services can be re-terminated into a Network Reconfiguration Service arrangement provided there are no other changes in the service.

/3/ Fractional V-H miles are to be considered whole V-H miles.

/4/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See Part 20, Section 15.

REGULATIONS (cont'd)**F. Method of Applying Rates (cont'd)**

3. Private Line Service Exceptions (cont'd)

b. IntraLATA Interoffice Channel^{/1/} (cont'd)Multi-point

Each channel connecting primary serving offices with serving offices, or serving offices with serving offices is considered a separate channel for which mileage is independently computed. Mileage will be charged for in a manner that results in the lowest possible total intraLATA interoffice channel charges unless the customer requests special routing. Bridging charges per channel bridged apply when three or more voice grade channels connect at the same location. Bridging charges do not apply to Foreign Exchange, Foreign Serving office and Types 312^{/1/}, 415, 417A, 417B, 432, 437, 442, and 443. (C)

c. Channel Terminals

Channel terminal charges apply at each termination of an intraLATA inter-exchange channel and each termination of an intraLATA interoffice channel.

d. IntraLATA Interexchange Channel^{/2/}Two-Point

When the Demarcation Points of a Private Line Service are located in different exchanges or metropolitan exchanges all within the same LATA, interexchange mileage charges apply.

Each exchange and each zone of a metropolitan exchange has one primary serving office. Charges are based on the V-H distance between primary serving office.

Interexchange mileage between a Company primary serving office and a point of connection with the service components of another telephone company where "other line" charges apply shall be the maximum V-H distance between the primary serving offices.

Multi-Point

Each channel connecting primary serving offices is considered a separate channel for which mileage is independently computed. Mileage will be charged in a manner that results in the lowest possible total interexchange channel charges unless the customer requests special routing. Bridging charges per channel bridged apply when three or more voice grade channels connect at the same location. Bridging charges do not apply to Foreign Exchange and Types 312^{/2/}, 415, 417A, 417B, 432, 437, 442, and 443. (C)

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

/2/ Fractional V-H miles are to be considered whole V-H miles.

REGULATIONS (cont'd)**F. Method of Applying Rates (cont'd)**

3. Private Line Service Exceptions (cont'd)

- e. Additional Point of Termination of a Local Channel in Different Buildings^{/1, 2/} (Same Premises)

Charges, as provided in Part 15, Section 2, for extending a local channel beyond the Demarcation Point located on the customer's premises and terminating the channel at a station location in a different building on the same premises shall apply in lieu of additional local channel charges.

When all station locations of a single Private Line Service are located in beyond the Demarcation Point in different buildings on the same premises, the charge for the channel between each pair of buildings shall be the same as the charge for extending a local channel to a station location in different buildings on the same premises as specified in Part 15, Section 2.

- f. Additional Point of Termination in Same Building^{/1, 2/}

Charges as provided in Part 15, Section 2, for extending a local channel beyond the Demarcation Point located on the customer's premises and terminating the channel at a station location in the same building shall apply in lieu of additional local channel charges.

- g. Same Building^{/1, 2/}

When all station locations of a Private Line Service are located beyond the Demarcation Point and are in the same building, same building charges as provided in Part 15, Section 2 apply.

- h. Bridging

Bridging charges per channel bridged apply when three or more voice grade channels connect at the same location. Bridging charges do not apply to Foreign Exchange, Foreign Serving Office, Types 312^{/1/}, 415, 417A, 417B, 423, 437, 442, and 443.

(C)

- i. Service Charges

A charge applies per point of termination installed or moved as provided in Part 15, Section 2, following. Those services with one local channel shall be billed as provided in Part 15, Section 2, following. Private Line Service Charges for Local Channel Types 312^{/1/}, and 415 do not apply for inside moves within the same building on the same premises.

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

/2/ The monthly rate for these services shown in Part 15, Section 2 does not include maintenance and/or repair.

REGULATIONS (cont'd)

F. Method of Applying Rates (cont'd)

3. Private Line Service Exceptions (cont'd)

j. Special Routing of Channels

The Private Line Services furnished under this Guidebook are provided over such routes as the Company may elect.

Special routing is involved where, in order to comply with requirements specified by the customer, the company furnishes the Private Line Service via serving offices and/or primary serving offices other than those through which the service would normally be routed.

Each channel connecting serving offices and/or primary serving offices is considered a separate channel for which charges are independently computed as provided in Part 15, Section 2.

Special Routing will be provided only where suitable service components are available.

REGULATIONS (cont'd)

F. Method of Applying Rates

4. Determination of V-H Mileages

The rate distances for Digital Link Service and Private Line Service channels should be determined as follows:

a. Determination of V-H Coordinates

- Interoffice Channels

The rate distance is measured between Serving Offices or the Serving Office and a Digital or NRS Hub or between Digital or NRS Hubs, within the same LATA for the Interoffice Channel. The V-H coordinates for the Serving Offices, Digital Hubs and NRS Hubs are listed in the National Exchange Carrier Association, Inc.'s Wire Center Information Tariff.

b. Calculation of V-H Mileage

1. Determine the difference between the "V" coordinates for the Serving Offices, or the Digital or NRS Hub and the Serving Office within the same LATA. Similarly, determine the difference between the respective "H" coordinates. The difference is always determined by subtracting the smaller coordinate from the larger.
2. Square each difference obtained in Paragraph 1., above.
3. Add the squares of the "V" difference and the "H" difference obtained in Paragraph 2., above.
4. Divide the sum of the squares obtained in Paragraph 3., above, by ten.
5. Obtain the square root of the result obtained in Paragraph 4., above. This distance is the rate distance in V-H miles. Fractional mileage distances should be rounded to the next higher full mile.

Examples:

- Interoffice Channel to a Digital Hub

	<u>V</u>	<u>H</u>
Ladue Digital Hub	6818	3517
Sappington Serving Office	<u>6839</u>	<u>3502</u>
difference	21	15

sum of the squares = 441 + 225 = 666

$$\sqrt{\frac{666}{10}} = 8.16 = 9 \text{ V-H Miles}$$

REGULATIONS (cont'd)

G. Special Taxes, Fees and Charges

Unless otherwise stated in this Section, all regulations found in Part 2 (General Regulations) of this Guidebook shall apply to Dedicated Communications Services found in this Part.

DEFINITIONS

This section provides definitions of terms used throughout this Part of the Guidebook (i.e., Part 15). Some terms may be applicable to any Digital Link Service described herein. Terms that are applicable to a specific service may have that service designation appear following the term.

Accessories - Devices which are mechanically attached to, or used with, the service components furnished by the Company and which are independent of, and not electrically, acoustically or inductively connected to the conductors in the communications path of the Company service components.

Asynchronous - Denotes a type of data transmission that is not related to a specific frequency or to the timing of the transmission facility. The data transmission is characterized by individual characters, encapsulated with start and stop bits, from which a receiver derives the necessary timing for sampling bits and start/stop transmission.

Authorized Protective Connecting Module - Denotes a protective unit designed by the Company and manufactured under the control of the Company quality assurance procedures which unit is to be incorporated in a conforming answering device.

Automatic Line - An optional feature available with the MicroLink I Site Link which causes an automatic connection to a predetermined destination whenever the Site Link is taken off hook at the

B Channel (Bearer Channel) - A communication path capable of transmitting information at a speed of up to 64 Kbps. This communication path may be used by a SelectVideo Plus customer for data mode calls to provide data and/or video communications between customer specified locations.

Bandwidth - the amount of information a customer can send or receive over a single connection in a specified period of time. Bandwidth is typically specified in Kilobits per second (Kbps).

Base Rate Area - The portion of the exchange area in which exchange service is furnished at scheduled rates for each class of service without mileage or construction charges.

Baud - Denotes a unit of signaling speed. It is the reciprocal of the time duration in seconds of the shortest signal element (mark or space) within a code signal. The speed in bauds is the number of signal elements per second.

Bit - The smallest unit of information in the binary system of notation.

Bridging - The connection of a channel or channels to another channel or the common point where more than two channels of any type connect.

Building - "Same Building" is a structure under one roof or two or more structures on the same premises which are connected by an enclosed passageway in which the wires or cables of the Company may be placed without exposure to outside electrical circuits or the weather. In no case can conduit be considered as an enclosed passageway. The term "same building" does not include those premises connected by a covered public mall (see Premises).

DEFINITIONS (cont'd)

Channel(s) – For Digital Link Service, an electrical or photonic communications path for intraLATA digital transmission between two or more service points. Channels may be comprised of local distribution and interoffice components as required. For Private Line Service, denotes a portion of a Private Line Service which is a path (or paths) for electrical communication between two or more network interfaces located on customer premises or between Company offices or between a network interface located on a customer's premises and a service office. A channel may be furnished in such manner as the Company may elect, whether by wire, radio, fiber optics or a combination thereof, and whether or not by means of a single physical facility or route.

Channel Terminal - The service components required to terminate an intraLATA interexchange channel or an intraLATA interoffice channel at a serving office.

Communications Systems - Denotes channels and other service components which are capable, when not connected to Private Line Services, of two-way communications between customer-provided terminal equipment or Company service components.

Composite Data Service - The combined use of terminal and data switching equipment provided by a Composite Data Service Vendor with the use of telecommunications services of the Company to perform data switching for others.

Composite Data Service Vendor - A customer that has been certified by the proper state or municipal regulatory body to acquire and operate service components to perform data switching for others. A customer shall be classified as a Composite Data Service Vendor only with respect to use of those exchange services which are utilized for the provision of Composite Data Service.

Concurring Carrier - Any carrier (other than a Connecting Carrier) which is fully subject to the Communications Act of 1934, as amended, which instead of filing its own tariffs, concurs in and assents to schedule of charges and regulations filed in its behalf by an Issuing Carrier. (An Issuing Carrier is a carrier, subject to the Communications Act of 1934, as amended, which published and files tariffs with the appropriate regulatory body.)

Conformance Number - Denotes an identifying number assigned by the Company to a particular model of conforming answering device incorporating an authorized protective connecting module when that model of device is in conformance with the provisions set forth by the Company in its Technical Reference for Conforming Answering Devices.

Conforming Answering Device - Denotes a customer-provided device which automatically answers incoming calls; transmits a prerecorded voice message or appropriate audible signal to the calling party; records a voice message from the calling party, if so designed and arranged; and automatically disconnects from the line in a prearranged manner on completion of the last of the functions for which it was designed and arranged as described in this Paragraph. The conforming answering device may include remote interrogation and/or device function control. A conforming answering device must incorporate an authorized protective connecting module and must bear a valid conformance number.

Connecting Arrangement - Denotes the service components provided by the Company to accomplish the direct electrical connection of customer-provided service components with the service components of the Company or the direct electrical connection of Company service components.

Connecting Company - A corporation, association, firm or individual owning and operating one or more exchanges and with whom traffic is interchanged.

DEFINITIONS (cont'd)

Contract - The service agreement between a customer and the Company under which service components for communication between specified locations for designated periods, and for the use of the customer or user specifically named in the contract are furnished in accordance with the provisions of the Guidebook.

Covered Public Mall - A covered public area, intended for the general public use, running between two or more premises and not an integral part of any building.

Customer - The person, firm or corporation which orders service and is responsible for the payment of charges and compliance with Company regulations. A customer for Digital Link Services or Private Line Service must have a communications requirement of his own for its use, except where:

- The customer is a Composite Data Service Vendor; or
- The service is provided for the transmission of communications relating directly to the business of a subsidiary corporation over which the customer exercises control through ownership of more than 50 percent of the voting stock; or
- The customer for Digital Link Service orders the addition of service points to meet the communications requirements of a user of such service and such additional service points are required.

Customer Premises Equipment - Communications devices, apparatus and their associated wiring provided by a customer or user which do not constitute a communications system.

Customer-Provided Communications System - Denotes service components provided by a customer or user which are capable, when not connected to Digital Link Services, of communications between customer provided terminal equipment.

Customer-Provided Premises Wiring - Premises wiring provided by a customer for use with service components furnished by the Company for Private Line Service.

Customer-Provided Test Equipment - Denotes test equipment located at the premises of the customer or user that is used by the customer or user for the detection and/or isolation of a communications service fault.

D Channel (Delta Channel) - A communications path set up to transmit data in packet forms at speeds up to 64 Kbps. This communications path is designated to send and receive signaling messages.

Data Access Arrangement - Denotes a protective connecting arrangement for use with the network control signaling unit or, in lieu of the connecting arrangement, an arrangement to identify a central office line and protective service components and procedures to determine compliance with criteria set forth in this guidebook.

Data Switching - As used in connection with Composite Data Service, denotes the switching of data (non-voice) messages by the interchange, controlling and routing of data messages between two or more service points via communications service components wherein the information content of message remains unaltered.

DEFINITIONS (cont'd)

Demarcation Point - The point (referred to as Demarc Point or Network Interface) of interconnection between the Company's facilities and the wiring at the subscriber's premises. The Demarc Point shall consist of wire or a jack conforming to Subpart F of Part 68 of the Federal Communications Commission's Rules and Regulations. The Demarc Point will generally be within twelve inches of the protector or, absent a protector, within twelve inches of the entry point to the customer's premises. If conforming to the twelve inches is unrealistic or technically impossible, the Demarc Point will be the most practicable minimum point of entry to the customer's premises.

The network interface may be located at a point other than the normal demarcation point where the network interface is already established by the presence of network equipment with the effective date of this Guidebook. For multiunit structures (e.g., apartments, college campuses, shopping centers) the structure owner shall make the final decision on whether the structure shall be treated as a multipremise structure with one demarcation point per premise or, as a single premise with one demarcation point for the entire structure. The structure owner shall have the option of having the demarcation point placed at a location other than that determined by the Company provided the structure owner pays any additional construction costs and such location is consistent with the minimum point of entry standard.

Upon request of the subscriber or their agent, the Company shall provide additional regulated network entrance facilities and/or demarcation arrangements in single tenant multiunit or multibuilding situations. Such arrangements shall be made in accordance with Part 2, Section 5 (Special Construction). Each additional regulated network entrance facility will terminate in a demarcation arrangement located at a minimum point of entry within a specified designated telecommunications equipment space.

With regard to premises for any structure that is built to be mobile (e.g., mobile homes, recreational vehicles), the Company may place the Demarc Point on a post or pole at or near the pad where such structure is intended to rest. Boat docks and similar premises may be treated by the Company as single unit premises, with the Demarc Point being placed on the shore.

Digital Connectivity - The availability of digital facilities to connect all customer premises on a specific circuit. Special routing may be required in certain instances to provide digital connectivity.

Digital Hub - Designated Company office where certain Additional Service Features can be provided for Digital Link Service Channels. Digital Hub locations are specified in the appropriate National Exchange Carrier Association, Inc. Wire Center Information Tariff.

Direct Electrical Connection - Denotes a physical connection of the electrical conductors in the communications path.

Distribution Center - Indicates amplifying and bridging equipment required to connect the various local sections of a music network or to connect local sections to an interexchange section of that network.

Duplex Operation - A mode of operation which permits customers to communicate in both directions simultaneously. (Also referred to as Full Duplex Operation.)

Encoded Analog Content - "Encoded Analog Content" is an analog signal which has been multiplexed and coded within a digital signal.

DEFINITIONS (cont'd)

Equalized - Denotes a procedure which provides for the component frequencies of the material transmitted having about the same relationship at the two ends of the channel.

Equipment Space - An area or areas, agreed upon by the subscriber and The Company, located on or within a structure that is specifically designated for the purpose of terminating regulated Company provided services and facilities. The necessary security, lighting, commercial power and environmental controls are provided within this area.

Equivalent Analog Signal Power - "Equivalent Analog Signal Power" is the power of the analog signal at the output of a zero level decoder obtained when a digital signal is the input to the decoder. A zero level decoder yields an analog level of OdBm at its output when the input is a digital milliwatt signal.

Exchange - Denotes a unit established by the Company or a connecting company for the administration of telecommunications service in a specified area which usually embraces a metropolitan area, city, town or village and its environs. It consists of one or more service offices together with the associated plant used in furnishing communications service within that area.

Exchange Area - The area within which the Company will furnish complete telephone service at the exchange rates applicable within that area.

Foreign Exchange Service - Exchange Service furnished by means of a circuit connecting a customer's service point to a primary serving office of another exchange.

Foreign Serving Office - Exchange Service furnished by means of a circuit connecting a customer's service point to a serving office of the same exchange but outside of the serving office area in which the service point is located.

Fully Configured ISDN Primary Rate Interface - A fully configured PRI is one where all 24 channels are equipped for service.

Hunting - The multichannel MicroLink I Site Links (336 Kbps and 1.344 Mbps) are equipped with Hunting as a standard feature. The first channel is assigned a telephone number and when a call to this number is originated, the call hunts sequentially through all numbers in this group until an available channel is found. A Subgroup Arrangement is available and includes an additional telephone number. With this arrangement the customer can predefine the hunting activity within the groups. For example, channels 1 through 12 can be in the original hunt group associated with the telephone number assigned to channel 1 and channels 13 through 24 can be in the second group associated with a telephone number assigned to channel 13.

DEFINITIONS (cont'd)

Grandfathered Connections of Communications Systems - Denotes connections via Company-provided connecting arrangements of customer communications systems (including their equipment and premises wiring) at the customer's premises, in accordance with any Company's Guidebooks, and that are considered to be grandfathered under the Federal Communications Commission's Rules and Regulations because (a) such connections to the telecommunications network or the private line services specified in Paragraph E.13.b., preceding, were made via Company-provided connecting arrangements prior to January 1, 1980, and such connecting arrangements are of a type of connecting arrangement connected to the telecommunications network or the private line services specified in Paragraph E.13.b., preceding, as of June 1, 1978, or (b) such connections to the private line services specified in Paragraph E.13.c. or d., preceding, are made via Company-provided connecting arrangements prior to May 1, 1983, and such connecting arrangements are of a type of connecting arrangement connected to the private line services specified in Paragraph E.13.c. or d., preceding, as of April 30, 1980.

Grandfather Connections of Terminal Equipment - Denotes connections via Company-provided connecting arrangements of customer-provided terminal equipment connected at the premises of the customer, authorized user or joint user, in accordance with any Company's Guidebooks, and that are considered to be grandfathered under the Federal Communications Commission's Rules and Regulations because (a) such connections to the telecommunications network or the private line services specified in Paragraph E.13.b., preceding were made via Company-provided connecting arrangements prior to July 1, 1979, and such connecting arrangements are of a type of connecting arrangement connected to the telecommunications network or the private line services specified in Paragraph E.13.b., preceding as of October 17, 1977, or (b) such connections to the private line services specified in Paragraph E.13.c. or d., preceding are made via Company-provided connecting arrangements prior to May 1, 1983, and such connecting arrangements are of a type of connecting arrangement connected to the private line services specified in Paragraph E.13.c. or d., preceding as of April 30, 1980.

Half-Duplex Services - Denotes service which permits communication alternately in either direction, or for communication in one direction only, including bi-directional simultaneous transmission of tones required solely for control purposes or quick turnaround or synchronization.

Interexchange Channel - That portion of a Private Line Service which interconnects two primary serving offices in different exchanges or Metropolitan Exchanges within the same LATA.

Interexchange Customer(s) (IC) - Denotes any individual, partnership, association, corporation, or governmental agency or any other entity which subscribes to the services offered under the Access Services Tariff to provide intrastate telecommunications services for its own use or for the use of its customers (End Users).

Interexchange Service - A Private Line Service within the same LATA where the Demarcation Points located on customer premises are in different exchanges or metropolitan exchanges within the same LATA.

Interoffice Channel – For Digital Link Service, a two-point transmission path between Serving Offices, between a Serving Office and a Digital Hub, between Digital Hubs or between a Digital Hub and an NRS Hub. For Private Line Service, that portion of a Private Line Service within the same LATA which interconnects (1) local channels in different serving offices associated with intraexchange service or (2) interexchange channels with local channels.

Intrabuilding Network Cable - Cable in a building that extends the outside plant distribution service components from the building entrance to equipment rooms, cross connection points or other distribution points.

DEFINITIONS (cont'd)

Intraexchange Service - A Private Line Service where the Demarcation Points located on customer premises are wholly within an exchange or a metropolitan exchange as defined in the Part 4 of the Guidebook.

IntraLATA Service - Digital Link Service where the originating service point and the terminating service point(s) locations are all within the same Local Access and Transport Area (LATA). For Private Line Service, where the Demarcation Points located on customer premises are wholly within a LATA as defined in this Guidebook.

ISDN - Integrated Services Digital Network. A network architecture which allows the simultaneous transmission of information over a single facility incorporating the use of bearer channels (B channels) and a data channel (D channel).

ISDN Primary Rate Interface (PRI) - The term Primary Rate Interface denotes the connection of a 1.544 Mbps digital facility to the ISDN-PRI capable central office switch. The twenty four channels are typically divided into twenty-three "B" Channels plus 1 "D" Channel. Software in the ISDN-PRI equipped central office switch defines the type of services that will be carried within the 1.544 Mbps digital facility.

Isochronous - Isochronous is transmission timing derived from the signal carrying the data. (i.e., No timing or clock lead is provided at the customer interface.)

Kilobits Per Second (Kbps) - Equivalent to one thousand bits per second.

Kilosegment - A segment is a means of measuring the volume of information transmitted. The segment size is the number of octets of data contained in a packet segment. The standard Company segment size is 64 octets. The number of segments in a packet is determined by dividing the number of octets of user data in a packet by 64 and rounding up. A kilosegment is 1000 segments.

Link Extension - A customer served by an office located outside of an established Primary Market Area (PMA) for Frame Relay or MicroLink I, but within the LATA, will be required to order a Link Extension. The Link Extension will consist of interoffice transport between the Site Link at the customer's serving central office and the nearest central office within the PMA. The Link Extension Charge is both distance and bandwidth dependent.

Local Access and Transport Area (LATA) - Denotes a geographical area established for the administration of communications service. It encompasses designated local operating telephone company exchanges which are grouped to serve common social economic and miscellaneous purposes.

Local Channel - That portion of a Private Line Service which interconnects a network interface located on a customer's premises to (1) an interexchange or interoffice channel; (2) another network interface on the same or on a different premises in the same serving office area via another local channel to a network interface located on that same or a different premises; and (3) a port on a Company provided Network Reconfiguration Service^{/1/}. (C)

Local Distribution Channel - A two-point transmission path between a customer's premises and a Serving Office, or a Digital or NRS Hub which is also the customer's normal Serving Office.

/1/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See Part 20, Section 15. (N)
(N)

DEFINITIONS (cont'd)

Logical Link - The permanent virtual circuit between two customer Site Links which establishes a two-way connection which allows user data to flow. Includes the Frame Relay switch(es) and the trunking between switches.

Megabits Per Second (Mbps) - Equivalent to one million bits per second.

Move - As used in connection with the application of move charges for Digital Link Services and Private Line Services, denotes a change in the physical location (whether on the same or different premises), when made at the request of the customer without discontinuance of service, of service components provided by the Company. When used in connection with the application of MEGALINK III - Wideband Digital Service/1.544 Mbps denotes a change in the physical location (whether on the same or different premises) when made at the request of the customer without discontinuance of service, of service components provided by the Company.

Multiline Terminating System Area - Denotes a premises or multipremises within the same building or continuous property in resold or shared use arrangements for customer premises key or switching equipment.

Multipoint Service - Denotes a service arrangement which provides communication capability between more than two private line network interfaces within the same LATA constituting a common dedicated communications system.

Network Control Signaling - Denotes the transmission of signals used in the telecommunications system which perform functions such as supervision (control, status and charging signals), address signaling (e.g., dialing), calling and called number identification, audible tone signals (call progress signals indicating reorder or busy conditions, alerting, coin denominations, coin collect and coin return tones) to control the operation of switching machines in the telecommunications systems.

Network Control Signaling Unit - Denotes the service components furnished, installed and maintained by the Company for the provision of network control signaling.

National Security Emergency Preparedness (NSEP) Telecommunications Service - Those services used to maintain a state of readiness or to respond to and manage any event or crisis, i.e., local, national or international, which causes or could cause injury or harm to the population, damage to or loss of property, or degrades or threatens the National Security Emergency Preparedness posture of the United States.

Network Call Usage - The rates are applicable for chargeable time for calls that originate and terminate within the MicroLink I Primary Market Area and are limited to Local Exchange Carrier networks.

Network Interface - See Demarcation Point.

Network Link - A facility used to connect two Frame Relay PMAs within the same LATA.

Network Reconfiguration Service (NRS)^{/1/} - A central office based service which permits customers to remotely reconfigure their dedicated networks without normal Company service order procedures. (C)

Network Reconfiguration Service (NRS) Hub - A Designated Company office where NRS is provided. An NRS Hub may be collocated with a Digital Hub, but not all Digital Hubs are designated as NRS Hubs. NRS Hub locations are specified in the National Exchange Carrier Association, Inc.'s Wire Center Information Tariff.

^{/1/} Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See Part 20, Section 15. (N)
(N)

DEFINITIONS (cont'd)

Network Terminating Number (NTN) - A telephone number used to identify Direct Access Stations attached to the packet switching network.

Network to Network Interface (NNI) - a frame relay local management protocol that describes how two frame relay networks interconnect and exchange status information. This protocol is available only with the 1.536 Mbps Site Link rate element.

Network User Identification (NUI) - Is a number that identifies the user to the Public Packet Switched Network (PPSN) for billing purposes or originating calls. It is entered as a string of digits (NUI) for validation. Validation of the NUI authorizes usage of the PPSN and usage of optional services that the customer has subscribed to in association with the NUI. customers can have one or multiple NUIs.

Obsolete - A classification indicating the restricted availability of a service offering. The extent of the restriction is denoted by annotations as follows:

Existing Locations:

- Can add to existing system
- Can transfer contract
- Cannot move from one premises to another

Existing Installations:

- Can transfer contract.
- Cannot add to existing system.
- Cannot move from one premises to another.

Existing Customers:

- Can add to existing system.
- Can move from one premises to another.
- Cannot transfer contract.

Existing Customers at Existing Locations:

- Can add to existing system.
- Cannot move from one premises to another.
- Cannot transfer contract.

Existing Installations at Existing Locations:

- Can transfer contract.
- Cannot add to existing system.
- Cannot move from one premises to another.

Existing Installation at Existing Locations for Existing Customers:

- Cannot add to existing system.
- Cannot move from one premises to another.
- Cannot transfer contract.

(continued on next page)

DEFINITIONS (cont'd)

Obsolete – (cont'd)

Existing Service Arrangement:

- Can move from one premises to another.
- Can transfer contract.
- Cannot add to existing system.

Existing Systems:

- Can move from one premises to another.
- Can transfer contract.
- Can add to existing system.

Other Line Charge - The charge applied by another telephone company for the portion of an intraLATA interexchange service which it furnishes. The "other line" charge added to the Company's charge for the portion of the intraLATA interexchange service which it furnishes is the through charge for the entire intraLATA interexchange service furnished jointly by the Company and other telephone companies.

Other Telephone Company - See Connecting Company.

Patron - As used in connection with Composite Data Service, denotes a subscriber to the data switching services of a Composite Data Service Vendor.

Permanent Virtual Circuit (PVC) - Allows Direct Access customers to establish a dedicated virtual circuit between themselves and a specified location. This eliminates the need to build a virtual circuit prior to each transmission. The PVC simulates a dedicated two-point circuit.

Polling - A process by which a computer systematically contacts a terminal and/or another computer to send a message.

Premises - All portions of the same building occupied by the same customer, provided that:

- The portions are not separated from each other by intervening offices, rooms or suites not occupied by the customer.
- The portions on different floors are contiguous and that the portion of the upper floor is directly above the portion occupied on the lower floor.

All the buildings are located on one continuous plot of property, all of which plot is owned and/or held under separate lease by the same customer, and the buildings are not separated by a public thoroughfare which is governmentally owned.

Premises Wiring - Wiring on the customer's side of the Demarcation Point provided for use with service components furnished by the Company for Private Line Service.

Primary Market Area (PMA) - The geographic area in which MicroLink, Frame Relay and SelectVideo Plus Services are offered as described in their respective Guidebook sections.

DEFINITIONS (cont'd)

Primary Serving Office - That office in a single office service area or that office of a multioffice service area which is designated by the Company as the primary serving office. A primary serving office is also a serving office. In a serving area where there is not physically located a serving office, a theoretical location has been established by the Company for billing purposes.

Prime Service Vendor - The service vendor from whom the customer, or their authorized agent, orders NSEP Telecommunications Service.

Private Line Service - Channels and other service components (when provided by the Company) provided solely for the use of a customer or user.

Protocol - Set of rules for conducting interactions between two or more parties. These rules consist of syntax (header structure), semantics (actions and reactions that are supposed to occur) and timing (relative ordering and duration of states and events).

Px64 Standards Compliance - Consultative Committee on International Telephony and Telegraphy (CCITT) established compressed digital video standards compliance that describes the video displays and compression requirements for digital services transmission.

Registered Equipment - The customer's premises equipment (CPE) which complies with and has been approved within the Registration Provisions of Part 68 of the F.C.C.'s Rules and Regulations.

Restricted User Group - This allows customers to preselect a specific set of other customers with whom to communicate privately. Customer access lines of a restricted user group can only communicate with other access lines in that closed user group.

Served Direct Service - Those service components provided for specified two-point intraexchange channels between different buildings on different premises which do not route through a serving office.

Service Area - An exchange or a zone of a metropolitan exchange.

Service Components - All the plant and equipment of the Company, including all tangible and intangible real and personal property without limitation, and any and all means and instrumentalities in any manner owned, operated, leased, licensed, used, controlled, furnished or supplied for, by or in connection with the business of the Company, including any construction work in progress.

Service Point – For Digital Link Service, Service Point denotes a point on a customer's premises, a Serving Office or a Digital Hub, at which a Digital Link Service is terminated.

For Private Line Service, denotes the service components furnished by the Company at a location on a premises and connected for Private Line Service, or:

- Denotes a point on a premises at which a Private Line Service is terminated where the service at that premises involves only channels furnished by the Company and the transmitting or receiving equipment, or combination transmitting and receiving equipment, is furnished by the customer or:
- Denotes certain designated Company locations where a Private Line Service terminates in Company provided central office based services or equipment e.g., Central Office Multiplexing, Network Reconfiguration Service^{/1/}.

(C)

/1/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See Part 20, Section 15.

(N)
(N)

DEFINITIONS (cont'd)

Serving Office - The office from which a customer would normally be served for Local Exchange Telephone Service. Channels between the customer premises and Interoffice channels, if required are interconnected at the Service Office. Where the Serving Office is not located in the service area, a theoretical location may be established by the Company for billing purposes.

Serving Office Area - The specific area normally served by a serving office. A serving office area may be served in several ways, namely:

- By a single unit service office with one telephone number prefix.
- By a multiple unit serving office with multiple telephone number prefixes.
- By a theoretical serving office with switching equipment located in another exchange or serving office area. Such an area is also termed a "potential serving office area."

Session - This is the period of time that common control network service components are allocated to the establishment of a specific switched virtual call. It begins with call set-up and continues until the common control network service components are released for reuse by the network.

Site Link (Frame Relay) - The physical connection between the customer's premises and the Frame Relay network. Includes the local loop, interoffice facilities between the Serving Central Office and the Frame Relay Office, and the termination on the Frame Relay Switch.

Site Link (MicroLink I) - The physical connection to a customer's premises that supports single or multiple 56 Kbps switched circuits. It includes the facility between the customer premises and the serving central office, the circuit(s) between the MICROLINK I switch node and the customer's serving central office, and the node termination. Each Site Link is assigned a unique telephone number. If two or more single channel Site Links (2-wire or 4-wire) are purchased to the same node, hunting capability is available at no additional charge.

Station Port - A station port is the classification of the station interface for off-premises main stations or extension stations of a premises PBX (or similar) switching system used in reference to loop signaling requirements on grandfathered and registered PBX Systems.

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Subcontracting Service Vendor - The service vendor who, under contract or Guidebook concurrence, agrees to provide a portion of an NSEP Telecommunications Service.

Summary Report - Provides a monthly total, on paper only, of call set-up, connect time, and kilosegments transmitted and received by either User Name or originating city.

Synchronous - Denotes a type of data transmission where the characters or bits are sent at a fixed rate, with the transmitting and receiving devices synchronized, so that start and stop bits are not required.

DEFINITIONS (cont'd)

Telecommunications Service Priority (TSP) Authorization Code - A special 12 digit code assigned by the TSP Program Office, which authorizes priority provisioning and/or restoration designations for NSEP Telecommunications Services.

Telecommunications Service Priority (TSP) System - The priority provisioning and restoration of services offered under this Guidebook relative to the National Security Emergency Preparedness (NSEP) Telecommunications Service Priority (TSP) System shall be pursuant to the regulations and rates as delineated in Part 8, Section 5.

For application in this Guidebook, such regulations, rates and charges shall be interpreted to apply on a "per request, per circuit" basis.

Telephone Company (also referred to as "The Company" or "Company") - The Southwestern Bell Telephone Company.

Termination - When used in connection with the application of termination charges for Private Line Services, denotes the discontinuance, either at the request of the customer or by the Company under its regulations concerning cancellation for cause, of service or service components provided by the Company.

User - A person firm or corporation designated by the customer as a user of Digital Link Services furnished to the customer and who may be such service with the customer in accordance with Guidebook provisions. A user must be specifically named in the customer's application for service.

User to Network Interface (UNI) - the standard frame relay local management protocol that describes how customer premises equipment (CPE) interconnect and exchange status information with the frame relay network.

Zone - A portion of a Metropolitan Exchange which has one primary serving office and is further described in the Part 4 of the Guidebook.