WINDSTREAM EAST TEXAS, LLC

4001 Rodney Parham Road
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This Tariff, issued by Windstream East Texas, LLC Cancels and Replaces in its Entirety the Tariff Currently issued by Windstream Sugar Land, LLC.

ACCESS SERVICES TARIFF

CONCURRING CARRIERS
Texas Windstream, Inc.
Windstream Communications Kerrville, L.P.

CONNECTING CARRIERS
No Connecting Carriers

OTHER PARTICIPATING CARRIERS
No Other Participating Carriers

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ACCESS SERVICE

1. Application of Tariff

1.1 Application of Tariff

This Tariff contains regulations, rates and charges applicable to the provision of Carrier Common Line, Switched Access, Special Access Billing and Collection services, and other miscellaneous services, hereinafter referred to collectively as service(s), provided by Windstream East Texas, LLC, Texas Windstream, Inc. and Windstream Communications Kerrville, L.P., to customers. As amendments, revisions or successive issues are filed, individual tariff sheets will be amended accordingly.

1.2 The provision of such service as set forth in this tariff does not constitute a joint undertaking with the customer for the furnishing of any service.

ACCESS SERVICE

2. General Regulations

2.1 Undertaking of the Telephone Company

2.1.1 Scope

(A) The Telephone Company does not undertake to transmit messages under this tariff.

(B) The Telephone Company shall be responsible only for the installation, operation and maintenance of the services it provides.

(C) The Telephone Company will, for maintenance purposes, test its service only to the extent necessary to detect and/or clear troubles.

(D) Services are provided 24 hours daily, seven days per week, except as set forth in other applicable sections of this tariff.

(E) The Telephone Company does not warrant that facilities and services meet standards other than those set forth in this tariff.

2.1.2 Limitations

(A) Assignment or Transfer of Services

The customer may assign or transfer the use of services provided under this tariff only where there is no interruption of use or relocation of the services. Such assignment or transfer may be made to:

(1) another customer, whether an individual, partnership, association or corporation, provided the assignee or transferee assumes all outstanding indebtedness for such services, and the unexpired portion of the minimum period and the termination liability applicable to such services, if any; or

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(A) Assignment or Transfer of Services (Cont'd)

(2) a court-appointed receiver, trustee or other person acting pursuant to law in bankruptcy, receivership, reorganization, insolvency, liquidation or other similar proceedings, provided the assignee or transferee assumes the unexpired portion of the minimum period and the termination liability applicable to such services, if any.

In all cases of assignment or transfer, the written acknowledgment of the Telephone Company is required prior to such assignment or transfer. This acknowledgment shall be made within 15 days from the receipt of notification. All regulations and conditions contained in this tariff shall apply to such assignee or transferee.

The assignment or transfer of services does not relieve or discharge the assignor or transferor from remaining jointly or severally liable with the assignee or transferee for any obligations existing at the time of the assignment or transfer.

(B) Use and Restoration of Services

The use and restoration of services shall be in accordance with Part 64, Subpart D, Appendix A, of the Federal Communications Commission's Rules and Regulations, which specifies the priority system for such activities.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(C) Sequence of Provisioning

Subject to compliance with the rules mentioned in (B) preceding, the services offered herein will be provided to customers on a first-come, first-served basis.

The first-come, first-served sequence shall be based upon the received time and date officially recorded by the Telephone Company on customer access orders. These orders must contain all the information as required for each respective service as delineated in other sections of this tariff. Customer orders shall not be deemed to have been received until such information is provided. Should questions arise which preclude order issuance due to missing information or the need for clarification, the Telephone Company will attempt to seek such missing information or clarification on a verbal basis.

2.1.3 Liability

(A) Limits of Liability

The Telephone Company's liability, if any, for its willful misconduct is not limited by this tariff. With respect to any other claim or suit, by a customer or by any others, for damages associated with the installation, provision, termination, maintenance, repair or restoration of service, and subject to the provisions of (B) through (G) following, the Telephone Company's liability if any, shall not exceed an amount equal to the proportionate charge for the service for the period during which the service was affected. This liability for damages shall be in addition to any amounts that may otherwise be due the customer under this tariff as a Credit Allowance for a Service Interruption.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(B) Acts or Omissions

The Telephone Company shall not be liable for any act or omission of any other carrier or customer providing a portion of a service, nor shall the Telephone Company for its own act or omission hold liable any other carrier or customer providing a portion of a service.

(C) Damages to Customer Premises

The Telephone Company is not liable for damages to the customer premises resulting from the furnishing of a service, including the installation and removal of equipment and associated wiring, unless the damage is caused by the Telephone Company's negligence.

(D) Indemnification of Telephone Company

(1) By the End User

The Telephone Company shall be indemnified, defended and held harmless by the end user against any claim, loss or damage arising from the end user's use of services offered under this tariff, involving:

(a) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the end user's own communications;

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(D) Indemnification of Telephone Company (Cont'd)

(1) By the End User (Cont'd)

(b) Claims for patent infringement arising from the end user's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the end users or customer or;

(c) All other claims arising out of any act or omission of the end user in the course of using services provided pursuant to this tariff.

(2) By the Customer

The Telephone Company shall be indemnified, defended and held harmless by the customer against any claim, loss or damage arising from the customer's use of services offered under this tariff, involving:

(a) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the customer's own communications;

(b) Claims for patent infringement arising from the customer's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the end user or customer or;

(c) All other claims arising out of any act or omission of the customer in the course of using services provided pursuant to this tariff.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(E) Explosive Atmospheres

The Telephone Company does not guarantee or make any warranty with respect to its services when used in an explosive atmosphere. The Telephone Company shall be indemnified, defended and held harmless by the customer from any and all claims by any person relating to such customer's use of services so provided.

(F) No License Granted

No license under patents (other than the limited license to use) is granted by the Telephone Company or shall be implied or arise by estoppel, with respect to any service offered under this tariff. The Telephone Company will defend the customer against claims of patent infringement arising solely from the use by the customer of services offered under this tariff and will indemnify such customer for any damages awarded based solely on such claims.

(G) Circumstances Beyond the Telephone Company's Control

The Telephone Company's failure to provide or maintain services under this tariff shall be excused by labor difficulties, governmental orders, civil commotions, criminal actions taken against the Telephone Company, acts of God and other circumstances beyond the Telephone Company's reasonable control, subject to the Credit Allowance for a Service Interruption as set forth in Section 2.4.4 following.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.4 Provision of Services

The Telephone Company will provide to the customer, upon reasonable notice, services offered in other applicable sections of this tariff at rates and charges specified therein. Services will be made available to the extent that such services are or can be made available with reasonable effort, and after provision has been made for the Telephone Company's telephone exchange services.

2.1.5 Facility Terminations

The services provided under this tariff will include any entrance cable or drop wiring and wire or intrabuilding cable to that point where provision is made for termination of the Telephone Company's outside distribution network facilities at a suitable location inside a customer-designated premises. Such wiring or cable will be installed by the Telephone Company to the Point of Termination. Moves of the Point of Termination at the customer designated premises will be as set forth in Section 6.4.4 and Section 7.4.4 following.

2.1.6 Service Maintenance

The services provided under this tariff shall be maintained by the Telephone Company. The customer or others may not rearrange, move, disconnect, remove or attempt to repair any facilities provided by the Telephone Company, other than by connection or disconnection to any interface means used, except with the written consent of the Telephone Company.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.7 Changes and Substitutions

Except as provided for equipment and systems subject to FCC Part 68 Regulations at 47 C.F.R. Section 68.110(b), the Telephone Company may, where such action is reasonably required in the operation of its business, substitute, change or rearrange any facilities used in providing service under this tariff. Such actions may include, without limitation:

- substitution of different metallic facilities,
- substitution of carrier or derived facilities for metallic facilities used to provide other than metallic facilities,
- substitution of metallic facilities for carrier or derived facilities used to provide other than metallic facilities,
- change of minimum protection criteria,
- change of operating or maintenance characteristics of facilities, or
- change of operations or procedures of the Telephone Company.

In case of any such substitution, change or rearrangement, the transmission parameters will be within the range as set forth in Section 7 or 15 following. The Telephone Company shall not be responsible if any such substitution, change or rearrangement renders any customer furnished services obsolete or requires modification or alteration thereof or otherwise affects their use or performance. If such substitution, change or rearrangement materially affects the operating characteristics of the facility, the Telephone Company will provide reasonable notification to the customer in writing. Reasonable time will be allowed for any redesign and implementation required by the change in operating characteristics. The Telephone Company will work cooperatively with the customer to determine reasonable notification procedures.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service

(A) If a customer fails to comply with Section 2.1.6 preceding (Service Maintenance) or Section 2.3.1, 2.3.4, 2.3.6, 2.4.1 or 2.5 following (respectively, Damages, Availability for Testing, Balance, Payment Arrangements, Connections) including any customers failure to make payments on the date and times therein specified, the Telephone Company may, on thirty (30) days written notice to the customer by Certified U.S. Mail, take the following actions:

- refuse additional applications for service and/or refuse to complete any pending orders for service, and/or

- discontinue the provision of service to the customer.

In the case of discontinuance all applicable charges, including termination charges, shall become due.

(B) If a customer fails to comply with Section 2.2.2 following (Unlawful and Abusive Use), the Telephone Company may, upon written request from a customer, or another exchange carrier, terminate service to any subscriber or customer identified as having utilized service provided under this tariff in the completion of abusive or unlawful telephone calls. Service shall be terminated by the Telephone Company as provided for in its general and/or local exchange service tariffs.

In such instances when termination occurs the Telephone Company shall be indemnified, defended and held harmless by any customer or Exchange Carrier requesting termination of service against any claim, loss or damage arising from the Telephone Company's actions in terminating such service, unless caused by the Telephone Company's negligence.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service (Cont'd)

(C) Except as provided for equipment or systems subject to the FCC Part 68 Rules in 47 C.F.R. Section 68.108, if the customer fails to comply with Section 2.2.1 following (Interference or Impairment), the Telephone Company will, where practicable, notify the customer that temporary discontinuance of the use of a service may be required; however, where prior notice is not practicable, the Telephone Company may temporarily discontinue service forthwith if such action is reasonable in the circumstances. In case of such temporary discontinuance, the customer will be notified promptly and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance. During such period of temporary discontinuance, credit allowance for service interruptions as set forth in 2.4.4 following is not applicable.

(D) When access service is provided by more than one Telephone Company, the companies involved in providing the joint service may individually or collectively deny service to a customer for nonpayment. Where the Telephone Company(s) affected by the nonpayment is incapable of effecting discontinuance of service without cooperation from the other joint providers of Switched Access Service, such other Telephone Company(s) will, if technically feasible, assist in denying the joint service to the customer. Service denial for such joint service will only include calls originating or terminating within, or transiting, the operating territory of the Telephone Companies initiating the service denial for nonpayment. When more than one of the joint providers must deny service to effectuate termination for nonpayment, in cases where a conflict exists in the applicable tariff provisions, the tariff regulations of the Telephone Company located closest to the customer shall apply for joint service discontinuance.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service (Cont'd)

(E) If the Telephone Company does not refuse additional applications for service and/or does not discontinue the provision of the services as specified for herein, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to refuse additional applications for service and/or to discontinue the provision of the services to the non-complying customer without further notice.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking-of the Telephone Company (Cont'd)

2.1.9 Notification of Service-Affecting Activities

The Telephone Company will provide the customer reasonable notification of service affecting activities that may occur in the normal operation of its business. Such activities may include, but are not limited to the following:

- equipment or facilities additions,
- removals or rearrangements,
- routine preventative maintenance, and
- major switching machine change-out.

Generally, such activities are not individual customer service specific, but may affect many customer services. No specific advance notification period is applicable to all service activities. The Telephone Company will work cooperatively with the customer to determine reasonable notification requirements.

2.1.10 Coordination with Respect to Network Contingencies

The Telephone Company intends to work cooperatively with the customer to develop network contingency plans in order to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

2.1.11 Provision and Ownership of Telephone Numbers

The Telephone Company reserves the reasonable right to assign, designate or change telephone numbers, any other call number designations associated with Access Services, or the Telephone Company serving central office prefixes associated with such numbers, when necessary in the conduct of its business. Should it become necessary to make a change in such number(s), the Telephone Company will furnish to the customer six (6) months notice, by Certified U.S. Mail, of the effective date and an explanation of the reason(s) for such change(s).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.2 Use

2.2.1 Interference or Impairment

The characteristics and methods of operation of any circuits, facilities or equipment provided by other than the Telephone Company and associated with the facilities utilized to provide services under this tariff shall not:

- interfere with or impair service over any facilities of the Telephone Company, its affiliated companies, or its connecting and concurring carriers involved in its services,

- cause damage to their plant,

- impair the privacy of any communications carried over their facilities, or

- create hazards to the employees of any of them or the public.

2.2.2 Unlawful and Abusive Use

(A) The service provided under this tariff shall not be used for an unlawful purpose or used in an abusive manner.

Abusive use includes:

(1) The use of the service of the Telephone Company for a call or calls, anonymous or otherwise, in a manner reasonably expected to frighten, abuse, torment, or harass another;

(2) The use of the service in such a manner as to interfere unreasonably with the use of the service by one or more other customers.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer

2.3.1 Damages

The customer shall reimburse the Telephone Company for damages to Telephone Company facilities utilized to provide services under this tariff caused by the negligence or willful act of the customer or resulting from the customer's improper use of the Telephone Company facilities, or due to malfunction of any facilities or equipment provided by other than the Telephone Company. Nothing in the foregoing provision shall be interpreted to hold one customer liable for another customer's actions. The Telephone Company will, upon reimbursement for damages, cooperate with the customer in prosecuting a claim against the person causing such damage and the customer shall be subrogated to the right of recovery by the Telephone Company for the damages to the extent of such payment.

2.3.2 Ownership of Facilities and Theft

Facilities utilized by the Telephone Company to provide service under the provisions of this tariff shall remain the property of the Telephone Company. Such facilities shall be returned to the Telephone Company by the customer, whenever requested, within a reasonable period. The equipment shall be returned in as good condition as reasonable wear will permit.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.3 Equipment Space and Power

The customer shall furnish or arrange to have furnished to the Telephone Company, at no charge, equipment space and electrical power required by the Telephone Company to provide services under this tariff at the points of termination of such services. The selection of AC or DC power shall be mutually agreed to by the customer and the Telephone Company. The customer shall also make necessary arrangements in order that the Telephone Company will have access to such spaces at reasonable times for installing, testing, repairing or removing Telephone Company facilities used to provide services.

2.3.4 Availability for Testing

Access to facilities used to provide services under this tariff shall be available to the Telephone Company at times mutually agreed upon in order to permit the Telephone Company to make tests and adjustments appropriate for maintaining the services in satisfactory operating condition. Such tests and adjustments shall be completed within a reasonable time. As set forth in Section 2.4.4(C)(4) following, no credit will be allowed for any interruptions involved during such tests and adjustments.

2.3.5 Limitation of Use of Metallic Facilities

Signals applied to a metallic facility shall conform to the limitations set forth in Technical Reference Publication AS No. 1. In the case of application of DC telegraph signaling systems, the customer shall be responsible, at its expense, for the provision of current limiting devices to protect the Telephone Company facilities from excessive current due to abnormal conditions and for the provision of noise mitigation networks when required to reduce excessive noise.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.6 Balance

All signals for transmission over the facilities used to provide services under this tariff shall be delivered by the customer balanced to ground except for ground start, duplex (DX) and McCulloch-Loop (Alarm System) type signaling and DC telegraph transmission at speeds of 75 baud or less.

2.3.7 Design of Customer Services

Subject to the provisions of Section 2.1.7 preceding (Changes and Substitutions), the customer shall be solely responsible, at its own expense, for the overall design of its services and for any redesigning or rearrangement of its services which may be required because of changes in facilities, operations or procedures of the Telephone Company, minimum protection criteria or operating or maintenance characteristics of the facilities.

2.3.8 References to the Telephone Company

The customer may advise end users that certain services are provided by the Telephone Company in connection with the service the customer furnishes to end users; however, the customer shall not represent that the Telephone Company jointly participates in the customer's services.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Claims and Demands for Damages

(A) With respect to claims of patent infringement made by third persons, the customer shall defend, indemnify, protect and save harmless the Telephone Company from and against all claims arising out of the combining with, or use in connection with, the services provided under this tariff, any circuit, apparatus, system or method provided by the customer.

(B) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses and damages, including punitive damages, attorney fees and court costs by third persons arising out of the construction, installation, operation, maintenance, or removal of the customer's circuits, facilities, or equipment connected to the Telephone Company's services provided under this tariff including, without limitation, Worker's Compensation claims, actions for infringement of copyright and/or unauthorized use of program material, libel and slander actions based on the content of communications transmitted over the customer's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses, or other authority to acquire or operate the services provided under this tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortious conduct of the customer, its officers, agents or employees.

(C) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by the customer or third parties arising out of any act of omission of the customer in the course of using services provided under this tariff.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.10 Coordination with Respect to Network Contingencies

The customer shall, in cooperation with the Telephone Company, coordinate in planning the actions to be taken to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

2.3.11 Jurisdictional Report Requirements

(A) Jurisdictional Proration of Rates and Charges

When a customer orders special access service, the customer will provide the percentage of interstate traffic to be carried over the customer's special access service. If ten percent or less of traffic carried over the special access service will be interstate, such service is considered to be jurisdictionally 100% intrastate. If the jurisdictional nature of the customer's special access service changes, the customer must inform The Company in writing of the change. The effective date of the change will be the date The Company receives the customer's certification of change of jurisdiction. No charge applies for jurisdictional change.

Other Access Services:

When all other mixed interstate and intrastate Access Services are provided, all charges, (i.e., monthly rates, usage rates, and non-recurring charges) are prorated between interstate and intrastate based on the Percent Interstate Usage (PIU) factor as set forth in this section.

(B) Jurisdictional Definitions

Interstate - A call is an interstate communication if the call originates from a telephone number within the boundaries of one state or country and terminates outside the boundaries of the state of origination.

Intrastate - A call is an intrastate communication if the call both originates from a telephone number and terminates to another telephone number within the boundaries of the same state.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Percentages

PIU is expressed as a whole number between 0 and 100. The sum of the PIU and the intrastate jurisdictional percentage (IJP) must equal 100%. The IJP is determined by subtracting the PIU from 100. the PIU factor and IJP factor serve as the basis for development of interstate and intrastate charges to the customer. For non-usage sensitive and non-recurring rates, the quantity of service is multiplied by the PIU and IJP factors and by the applicable tariff rate to develop the charge. For usage sensitive rates, the quantity of usage sensitive units is multiplied by the PIU and IJP factors and by the applicable tariff rate to develop the charge.

Separate PIU factors are required for originating or terminating usage (except that for FGA and FGB the PIU will reflect the total for both originating and terminating usage).

(1) Interstate PIU

The PIU will be established by the Company or provided by the interexchange carrier (IC) customer as described following.

(a) The Company Developed PIU

Where the jurisdiction can be determined from the call detail, The Company will bill according to the jurisdiction by developing a projected interstate percentage. The Company will be responsible for the accuracy of such projected interstate percentage. The projected interstate percentage will be developed on a monthly basis by end office, when the Switched Access Service access minutes are measured, by dividing the measured interstate originating access minutes (the access minutes where the calling number is in one state and the called number is in another state) by the total originating access minutes. The Company will use this formula to calculate the customer's monthly PIU factor for each Company end office:

$$\frac{\text{measured interstate minutes}}{\text{total measured minutes}}$$

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Percentages (Cont'd)

(b) Customer-Provided PIU

Where The Company does not possess the capability to determine the jurisdiction of a switched access service, a PIU factor must be reported by the customer to The Company.

With the exception of FGA and FGB, customers shall report separate PIU factors to The Company for originating or terminating switched access service provided by The Company. For FGA and FGB switched access service, the PIU will be utilized for both originating and terminating traffic. Customers may report PIU factors at any of these reporting levels: end office, billing account number (BAN), or local access and transport area (LATA). Customers may compute PIU factors at any of these reporting levels: end office, billing account number (BAN), or local access and transport are (LATA). Customers may compute PIU factors at the state level provided the factors are specific to the telephone company and reported at the LATA level. If a customer uses a combination of reporting levels, each access service provided by The Company should be included at least once, but not more than once, in the PIU factors provided to The Company.

Revised PIU reports are also required when an access customer discontinues a portion of the Access Services or otherwise modifies the use of the Access Services within an end office or LATA in such a manner that substantially affects the jurisdiction of the traffic to which the PIU applies.

For Feature Group A and Feature Group B switched access service where the nature of the service is such that the customer cannot determine a telephone company specific PIU, the customer may report a LATA level PIU for that service to all the telephone companies from which the service is provided within the LATA.

he PIUs described in this section are applied to associated usage rated elements and services, e.g., Local Transport Termination, Local Transport Facility, Local Switching, Line Terminations Intercept and Information Surcharge charges. The PIUs are also used to develop the carrier charges.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Percentages (Cont'd)

(b) Customer-Provided PIU

There may be some portion of terminating minutes where it is not possible to know and therefore to send, the needed originating number information. A "floor" of 7.00 percent (%) will be set for terminating minutes lacking originating numbers for all switched access customers.

- When the percentage of terminating traffic without sufficient call detail to determine jurisdiction does not exceed the sum of the floor plus a 2.00 percent (%) grace threshold or 9.00 percent (%), the Telephone Company will apply the PIU factor, either provided by the customer or as set forth above.

- When the percentage is greater than 9.00 percent (%), the Telephone Company will assess rates from this tariff on all minutes exceeding the floor. For example, if 30 percent (%) of a customer's terminating minutes sent to the Telephone Company do not contain sufficient originating information to allow the Telephone Company to determine the originating location, then the Telephone Company would apply the provisions of this tariff to those minutes exceeding the floor, or 23 percent (%) in this example.

In the event that the Telephone Company applies rates to terminating calls without originating number information as provided in this tariff, customers will have the opportunity to request backup documentation of the Telephone Company's basis for such application, and further request that the Telephone Company change the application of the intrastate access rate upon a showing by the customer of why the intrastate rate should not be applied.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Percentages (Cont'd)

(1) Interstate PIU (Cont'd)

(b) Customer-Provided PIU (Cont'd)

(1) Initial Requirements

Before a switched access service is initially established, or for existing customers within 30 days following a request from The Company, the customer must provide the following written information to The Company:

(i) The customer must affirm that it possesses a network technology or other reasonable method to accurately determine the jurisdiction of each access service provided by The Company.

(ii) The customer must affirm that it will calculate and report PIU factors to The Company based on the actual jurisdiction of each access service provided by The Company to the access customer.

(2) Annual Requirements

Each customer is required to provide to The Company by April 15 of each year a written report which describes the methodology used by the customer for determination of customer-reported PIU factors.

If The Company does not receive the report by April 15 of each year, The Company will notify the customer by certified mail and advise the customer that unless the report is received by The Company within 30 days of receipt of the notice, a default PIU of 50% will be applied to the next billing cycle. (1).

(1) Shall be effective 181 days following the Commission's final order in Docket No. 10127.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Percentages (Cont'd)

(b) Customer-Provided PIU (Cont'd)

(2) Annual Requirements (Cont'd)

Customers are responsible for reporting accurate PIU factors to The Company. The Company is responsible for verifying the accuracy of PIU reports provided by customers. The Company will annually monitor all PIU reports.

(3) Quarterly Requirements

The customer shall update the jurisdictional report on the first of January, April, July and October of each year. The revised report will provide the interstate and intrastate percentage of use data for the past three months ending the last day of December, March, June and September. The update must be received by The Company no later than 15 days after the first day of each quarter as it will serve as the basis for billing the customer for that quarter. After the customer exercises its self-reporting options, if the customer does not provide a quarterly update report, The Company will assume the percentages to be the same as those provided in the last quarterly update received, and will continue to do so until the use of a default PIU becomes appropriate, as specified in 2.3.11(C)(b)(2).

If the customer has never provided a quarterly report, The Company will notify the customer by certified mail and advise the customer that a default PIU of 50% will be applied beginning the next billing cycle unless the PIU report is filed by the customer. (1)

(1) Shall be effective 181 days following the Commission's final order in Docket No. 10127.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Percentages (Cont'd)

(b) Customer-Provided PIU (Cont'd)

(3) Quarterly Requirements (Cont'd)

The Company will review the jurisdictional reports quarterly for reasonableness and inform the customer by certified mail within 75 days of the beginning of the quarter if The Company believes the report does not accurately reflect the current PIU of the service. Upon such notification, the customer shall have thirty days to review The Company's concerns and make corrections, if applicable. Absent such notification by The company, the report is assumed to be accurate and exempt from any billing adjustments that may arise from subsequent audit.

In the event The Company notifies the customer as specified in the previous paragraph, billing adjustments may apply pursuant to Section 2.3.11.(H).

(4) Exceptions

All foreign exchange (FX) FGA services and dedicated off network access line (ONAL)FGA services ordered under this tariff are designated as 100% intrastate services and are exempt from PIU reporting requirements.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(D) Audit of Jurisdictional Accuracy (Cont'd)

(1) Jurisdictional Report Verification

When a customer provides a projected interstate usage percent as set forth in 2.3.11(C)(1)(b) preceding, The Company may, for audits sanctioned by the Audit Committee, (on written request by certified U.S. mail), require the customer to provide call detail records which will be audited to substantiate the projected interstate usage factor provided to The Company.

The Company will request that the call detail records be made available to an independent auditor or The Company within thirty (30) days of the request at an agreed upon location during normal business hours.

If the customer fails to comply with the request to produce records pursuant to 2.3.11.(D)(2), The Company may refuse additional applications for service and/or refuse to complete any pending orders for service for a period of 30 days as set forth in 2.1.8.(A) preceding. If, at the conclusion of 30 days, the customer still does not comply with this request, The Company may discontinue the provision of the service as specified in 2.1.8(B) preceding.

The audit verification process and responsible party(ies) for payment of audit expenses will be determined as set forth in (a) or (b), following:

(a) The Company will participate in the Audit Committee for the purpose of joint administration of PIU audits.

(b) The customer may select an independent auditor and pay all audit expenses.

All PIU reporting, auditing, and billing practices are to be consistent with the provisions of The Company's tariffs and the final order in Docket No. 10127, and the Public Utility Commission of Texas' Rules.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(D) Audit of Jurisdictional Accuracy (Cont'd)

(2) Maintenance of Customer Records

The customer shall retain and maintain net call detail records for a minimum 12-month period that statistically substantiate the PIU provided to The Company as set forth in 2.3.11(C)(1)(b) preceding. Such net call detail records (i.e., workpapers and/or backup documentation, including paper, magnetic tapes or any other form of records for billed customer traffic) shall consist of call information, including call terminating address (i.e., called number), the call duration, the trunk group or access lines over which the call is routed and the point at which the call enters and/or exits the customer's network, and calling number when available.

If the Company determines that the customer's records, worksheets and backup documentation are insufficient or if the customer does not provide the call detail records in accordance with the provisions set forth in this tariff, The Company shall request the call detail records on a prospective basis not to exceed a three-month time period.

(E) Application of Audit Results

If the composite PIU determined by the auditor for all access services subject to audit varies more than 3 percentage points from the composite reported PIU for those access services, The Company will make adjustments to billing based upon the audit results for a maximum of 12 months as specified in 2.3.11(H).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(E) Application of Audit Results (Cont'd)

When an audit determines that a customer's reported PIU by access service deviates from the service's specific PIU, as determined by the audit, by more than three percentage points, and that deviation is not due to seasonal changes or other identifiable reasons, The Company shall apply the service specific PIU as determined by the audit to each such service for two successive quarters following the completion of the audit. The PIU for those two quarters may only be changed with the approval of the company upon a showing by the customer, which The Company finds adequate, that the customer's PIU for a service has changed since the completion of the audit.

If a customer has been audited (either by a voluntary self audit accepted by the Audit Committee or an Audit Committee audit), no subsequent audits may be initiated by the Audit Committee within twelve months from the completion of the last audit. However, The Company may still require explanation of any change in reported PIU by the customer during the twelve-month period and, if the Audit Committee determines that the explanation is not adequate, the Audit Committee may initiate another audit to determine if the change in reported PIU is reasonable.

(F) Contested Audits

When a PIU audit is conducted, the customer may contest the results of the audit by providing written notice by certified mail to the Audit Committee within (30) calendar days of the receipt of the audit results by the customer.

When a PIU audit is conducted, The Company may contest the results of the audit by providing written notice by certified mail to the Audit Committee within (30) calendar days of the receipt of the audit results by the customer.

Absent written notification as specified herein, audit results cannot be contested.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(F) Contested Audits (Cont'd)

Contested audits may be informally resolved by the Audit Committee, or be resolved by a neutral arbitrator, if The Company and the customer agree to such an arrangement. If the arbitrator rules in favor of The Company, the customer must pay the expense of the arbitrator. If the arbitrator rules in favor of the customer, The Company will pay the expense of the arbitrator. The arbitration proceeding shall be governed by the law (both statutory and case) of the state in which the arbitration hearing is held, including, but not limited to, the Uniform Arbitration Act, as adopted in that state. The arbitrator shall determine the customer's PIU consistent with the provisions of 2.3.11(C) preceding.

Prior to the arbitration hearing, each party shall notify the arbitrator of the PIU percentage which that party believes to be correct. The arbitrator, in deciding, may adopt the PIU percentage of either party or may adopt a PIU percentage different from those proposed by the parties. If the arbitrator adopts a PIU percentage proposed by one of the parties, the other party (whose PIU percentage was not adopted) shall pay all costs of the arbitration. If the arbitrator adopts a PIU percentage higher than either of the PIU percentages proposed by the parties, then the party proposing the lower percentage shall pay all costs of the arbitration. If the arbitrator adopts a PIU percentage higher than either of the PIU percentages proposed by the parties, then the party proposing the higher PIU percentage shall pay all costs of the arbitration. If the arbitrator adopts a PIU percentage which falls between the two percentages adopted by the parties, then the parties shall each pay one-half of the arbitration costs.

The Company shall not issue adjusted bills until any contest of the audit has been resolved in accordance with this subsection.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(G) Disputed Bills

A customer may dispute bill adjustments following receipt of the adjusted bill. Disputes arising from bill adjustments may, upon agreement by the involved parties, be informally resolved by a neutral arbitrator mediator. By the sixty-first day following receipt of the adjusted bill, a customer must either place the disputed amount of the adjusted bill in escrow or pay the disputed amount to The Company pending resolution of the dispute. The Commission, the arbitrator, or the Audit Committee to whom this dispute is directed may waive this requirement.

If, on the sixty-first day, the disputed amount is neither placed in escrow nor received by The Company, The Company will provide the customer, by certified mail, with a notice of disconnection and may disconnect service not sooner than thirty days after the customer received notice. Disconnection is limited to services for which the PIU is materially misreported by at least three percentage points.

(H) Bill Adjustments

Bill adjustments resulting from an audit of jurisdictional accuracy will be made in accordance with the following provisions.

(1) For initial audits, no backbilling adjustments will be made based upon the conclusions of a voluntary audit conducted by an auditor approved by the Audit Committee within twelve months from receipt of written notification of the audit guidelines. For initial Audit Committee initiated audits, or voluntary audits conducted by non-approved auditors, billing adjustments will be made for up to twelve prior months.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(H) Bill Adjustments (Cont'd)

(2) For subsequent audits, whether voluntary using an auditor approved by the Audit Committee or Audit Committee initiated, no billing adjustment will apply for any report period prior to the first month of the quarter for which a customer receives notice that The Company challenges the PIU reported by the customer. Billing adjustments shall commence from the first day of the month of the quarter in which the customer receives notice of the challenge and shall extend through the audit completion date, but the period of adjustment shall not exceed twelve months under any circumstances.

(3) Billing adjustments will be made only if the composite PIU determined by the auditor for all access services subject to audit varies more than three percentage points from the composite reported PIU for those access services. The adjusted bills are to be computed by first computing an "Audit Adjusted PIU". The "Audit Adjusted PIU" will be determined by the Audit Committee or The Company as follows:

(a) If the reported PIU was found to be too high, the "Audit Adjusted PIU" is the PIU determined by the auditor plus three percentage points.

(b) If the reported PIU was found to be too low, the "Audit Adjusted PIU" is the PIU determined by the auditor less three percentage points.

The Company is to calculate a net bill adjustment for usage using the "Audit Adjusted PIU" to compute a bill or credit to the customer. However, no billing adjustments will be made for any period to which the audit applies in which the customer's reported PIU falls within three percentage points of the Audit PIU. If the billing adjustment is less than $500, The Company may forego any billing adjustment.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(H) Bill Adjustments (Cont'd)

(3) (Cont'd)

To correct past bills from The Company, a net adjustment factor will be calculated which represents the difference between The Company's interstate rate and The Company's intrastate rate for service. Adjusted units will be calculated which represent the difference between the total usage times the Reported PIU and the total usage times the Audit Adjusted PIU. The customer will be billed or credited a bill adjustment as follows:

Net adjustment factor x Adjusted units = Net Bill Adjustment

The Company may utilize a different methodology only if it produces an equivalent result as the preceding formula.

(4) The customer will be billed for The company's allocated audit costs resulting from an audit only if the customer-reported composite PIU deviates from the composite Audit-PIU by more than five percentage points and results in an underbilling of access charges to the access customer. Audit costs include the costs incurred by the audit Committee's auditor for the purpose of auditing the customer.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.12 Determination of Intrastate Charges for Mixed Interstate and Intrastate Access Service

When mixed interstate and intrastate Access Service is provided, all charges (i.e., nonrecurring, monthly and/or usage) including optional features charges, will be prorated between interstate and intrastate. The percentage determined as set forth in Section 2.3.11(A) preceding will serve as the basis for prorating the charges unless the Telephone Company is billing according to actuals by jurisdiction. The percentage of an Access Service to be charged as intrastate is applied in the following manner:

(A) Monthly and Nonrecurring Charges

For monthly and nonrecurring chargeable rate elements, multiply the percent intrastate use times the quantity of chargeable elements times the stated tariff rate.

(B) Usage Sensitive Charges

For usage sensitive (i.e., access minutes and calls) chargeable rate elements, multiply the percent intrastate use times actual use (i.e., measured or Telephone Company assumed average use) times the stated tariff rate.

The intrastate percentage may change as revised usage reports are submitted as set forth in Section 2.3.11 preceding.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Identification and Rating of VoIP-PSTN Traffic

(A) Scope

(1) VoIP-PSTN traffic is defined as traffic exchanged over the public switched telephone network ("PSTN") facilities that originates and/or terminates in Internet protocol ("IP") format. This section governs the identification of toll VoIP-PSTN ("toll VoIP") traffic that in the absence of an interconnection agreement will be subject to interstate switched access rates in accordance with the Federal Communications Commission Report and Order in WC Docket Nos. 10-90, etc., FCC No. 11-161 released (Nov. 18, 2011) ("FCC Order") as it may hereinafter be amended or clarified. Specifically, this section establishes the method of distinguishing toll VoIP traffic from the customer's total intrastate access traffic, so that toll VoIP traffic will be billed in accordance with the FCC Order.

(2)This section will be applied to the billing of switched access charges to a customer that is a local

(B) Rating of toll VoIP-PSTN traffic

The Telephone Company will bill toll VoIP-PSTN traffic which it identifies in accordance with this tariff section at rates equal to the Telephone Company's applicable tariffed interstate switched access rates.

(C) Calculation and Application of Percent-VoIP-Usage Factor

The Telephone Company will determine the number of toll VoIP traffic minutes of use ("MOU") to which it will apply its interstate rates under subsection (B), above, by applying an originating Percent VoIP Usage ("OPVU") factor to the total intrastate access MOU originated by a Telephone Company end user and delivered to the customer and by applying a terminating PVU ("TPVU") factor to the total intrastate access MOU terminated by a customer to the Telephone Company's end user. The OPVU and TPVU will be derived and applied as follows:

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Identification and Rating of VoIP-PSTN Traffic (Cont'd)

(C) Calculation and Application of Percent-VoIP-Usage Factor (Cont'd)

(1) The customer will calculate and furnish to the Telephone Company an OPVU factor, along with supporting documentation, representing the whole number percentage of the customer's total originating intrastate access MOU that the customer receives from the Telephone Company in the State that is originated by the Telephone Company in IP format.

(2) The customer will calculate and furnish to the Telephone Company a TPVU factor, along with supporting documentation, representing the whole number percentage of the customer's total terminating intrastate access MOU that the customer exchanges with the Telephone Company in the State that is sent to the Telephone Company and originated in IP format.

(3) The OPVU, TPVU and supporting documentation shall be based on information that is verifiable by the Telephone Company including but not limited to the number of the customer's retail VoIP subscriptions in the state (*e.g*., as reported on FCC Form 477), traffic studies, actual call detail, or other relevant and verifiable information. The customer shall not modify its reported PIU factor to account for VoIP-PSTN traffic.

(4) After the Telephone Company verifies the OPVU and TPVU provided by the customer the Telephone Company will apply the OPVU and TPVU factors to the associated intrastate access MOU as indicated in Sections (D) and/or (E) below.

In the event that the Telephone Company can not verify the customer's OPVU and/or TPVU, the Telephone Company will request additional information to support the OPVU and/or TPVU, during this time no changes will be made to the existing OPVU and /or TPVU. The customer shall supply the requested additional information within 15 days of the Telephone Company's request or no changes will be made to the existing OPVU and/or TPVU. If after review of the additional information, the customer and Telephone Company establish a revised and mutually agreed upon OPVU and/or TPVU factor, the Telephone Company will begin using the new factor with the next bill period.

If the dispute is unresolved the customer may request that verification audits be conducted by an independent auditor, at customer's sole expense. During the audit, the most recent undisputed OPVU and/or TPVU factor will be used by the Telephone Company.

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Identification and Rating of VoIP-PSTN Traffic (Cont'd)

(C) Calculation and Application of Percent-VoIP-Usage Factor (Cot'd)

(5) In the absence of an interconnection agreement, at no time will the Telephone Company allow an OPVU or TPVU factor greater than the applicable State percentage as identified in Paragraph 963 of the FCC Order.

(D) Initial OPVU and TPVU Factor

In calculating the initial OPVU and TPVU factor(s), the Telephone Company will take the factor(s) provided by the customer into account retroactively to January 1, 2012, *provided that* the customer provides the factor(s) and supporting documentation, as specified in subsection (C) above to the Telephone Company no later than 15 days after the effective date of this tariff. If the customer does not furnish the Telephone Company with an OPVU and/or TPVU factor pursuant to the preceding subsection (C), the initial factor will be zero.

(E) OPVU and TPVU Factor Updates

The customer may update the OPVU and/or TPVU factor(s) semi-annually using the method set forth in subsection (C), above. If the customer chooses to submit such updates, it shall forward to the Telephone Company, no later than 15 days after the first day of January and/or July of each year, a revised OPVU and/or TPVU factor and supporting documentation based on data for the prior three months, ending the last day of December and/or June, respectively. Once verified by the Telephone Company the revised OPVU and/or TPVU factor will apply prospectively and serve as the basis for billing until superseded by a new verified factor.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances

2.4.1 Payment of Rates, Charges and Deposits

(A) Deposits

The Telephone Company may require a customer which has a proven history of late payments to the Telephone Company or does not have established credit, to make a deposit prior to or at any time after the provision of a service to the customer. No such deposit will be required of a customer which is a successor of a company which has established credit and has no history of late payments to the Telephone Company.

Such deposit will not exceed the actual or estimated rates and charges for the service for a two month period. The fact that a deposit has been made in no way relieves the customer from complying with the Telephone Company's regulations as to the prompt payment of bills. At such time as the provision of the service to the customer is terminated, the amount of the deposit will be credited to the customer's account and any credit balance which may remain will be refunded.

Simple interest set annually by the Public Utility Commission of Texas at the rate of not less than six percent per annum or greater than twelve percent per annum will be paid on deposits held thirty days or more. Payment of the interest to the customer shall be annually if requested by the customer, or at the time the deposit is returned or credited to the customer's account.

When the customer has paid bills for service for twelve (12) consecutive residential billings or for twenty-four (24) consecutive commercial billings without having service disconnected for nonpayment of bills and without having more than two occasions in which a bill was delinquent, and when the customer is not delinquent in the payment of the current bill, the Company shall promptly and automatically refund the deposit plus accrued interest to the customer in the form of cash or credit to a customer's bill, or void the guarantee.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) Bill Dates

The Telephone Company shall bill on a current basis all charges incurred by and credits due to the customer under this tariff attributable to services established or discontinued during the preceding billing period. In addition, the Telephone Company shall bill in advance charges for all services to be provided during the ensuing billing period except for charges associated with service usage and for the Federal Government which will be billed in arrears. The bill day (i.e., the billing date of a bill for a customer for Access Service under this tariff), the period of service each bill covers and the payment date will be as follows:

(1) End User Access Service and Presubscription

For End User Access Service and Presubscription Service, the Telephone Company will establish a bill day each month for each end user account or advise the customer in writing of an alternate billing schedule. Alternate billing schedules shall not be established on less than 60 days notice or initiated by the Telephone Company more than twice in any consecutive 12 month period. The bill will cover End User Access Service charges for the ensuing billing period except for End User Access Service for the Federal Government which will be billed in arrears. Any applicable Presubscription Charges, any known unbilled charges for prior periods and any known unbilled adjustments for prior periods for End User Access Service and Presubscription Service will be applied to this bill. Such bills are due when rendered.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) Bill Dates (Cont'd)

(2) Access Services Other Than End User and Presubscription

For Service other than End User Access Service and Presubscription Service, the Telephone Company will establish a bill day each month for each customer account or advise the customer in writing of an alternate billing schedule. Alternate billing schedules shall not be established on less than 60 days notice or initiated by the Telephone Company more than twice in any consecutive 12 month period. The bill will cover nonusage sensitive service charges for the ensuing billing period for which the bill is rendered, any known unbilled nonusage sensitive charges for prior periods and unbilled usage charges for the period after the last bill day through the current bill day. Any known unbilled usage charges for prior periods and any known unbilled adjustments will be applied to this bill. Payment for such bills is due in immediately available funds by the payment date, as set forth in following. If payment is not received by the payment date, a late payment penalty will apply as set forth in (C) following.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(C) Payment Dates and Late Payment Penalties

All bills are considered past due thirty (30) days after the bill date or by the next bill date, whichever is sooner, except as set forth in Section 3.4.3 and Section 8.2.3 following. Bill payments must be made from immediately available funds.

(1) If any portion of the payment is received by the Telephone Company after the payment date as set forth in (D) preceding, or if any portion of the payment is received by the Telephone Company in funds which are not immediately available to the Telephone Company then a late payment penalty of five per cent may apply to the unpaid balance; however, no such penalty shall apply to delinquent residence service bills. The five percent penalty on delinquent bills shall not be applied to any balance to which the penalty was applied in a previous billing.

(D) Valid Billing Dispute

A valid billing dispute consists of written documentation specifically listing the total dollar amount of the dispute, specific rate elements being disputed and their dollar amounts. The dispute must be received in writing within 30 days after the due date of the bill. At least one of the seven following reasons must be given for the dispute to be considered valid.

1. Incorrect rate
2. Error in quantity (i.e., minutes or quantity of circuits incorrect.)
3. Service no longer exists.
4. Invalid factors
5. Incorrect customer being billed.
6. Invalid Purchase Order Number (PON)
7. Backbilling

Refusal to pay an entire bill or any portion thereof without written supporting documentation, will not be considered a valid dispute and will be handled as a non payment in accordance with Section 2.4.1(C) above.

4001 Rodney Parham Road
Little Rock, Arkansas 72212

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(E) Non Jurisdictional Report Related Billing Disputes Resolved in Favor of the Telephone Company

In the event that a billing dispute concerning any charges billed to the customer by the Telephone Company, except those resulting from jurisdictional reporting as identified in Section 2.3.11 (G), is resolved in favor of the Telephone Company, any payments withheld pending settlement of the dispute shall be subject to an additional charge determined in accordance with (1) preceding and applied to such disputed charges.

(F) Non Jurisdictional Report Related Billing Disputes Resolved in Favor of the Customer

If the non jurisdictional report billing dispute is resolved in favor of the customer, no late payment penalty will apply to the disputed amount. The disputed amount penalty shall be the disputed amount resolved in the customer's favor times the penalty percentage set forth in (1) preceding.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(G) Rounding of Charges

When a rate as set forth in this tariff is shown to more than two decimal places, the charges will be determined using the rate shown. The resulting amount will then be rounded to the nearest penny (i.e., rounded to two decimal places).

2.4.2 Minimum Periods

The minimum period for which services are provided and for which rates and charges are applicable is one month except for those services set forth in Section 5.5.1, 6.4.2, 7.4.3, 8.2.1(E)(2), 8.2.2(E)(2), 8.3.5(A), 8.4.5(A), 9.4.1, 13.3.5(C)(1)(d)(I), 13.3.5(C)(1)(d)(II), 13.3.5(C)(1)(a), 13.3.5(C)(1)(b)(I) or as otherwise specified.

The minimum period for which service is provided and for which rates and charges are applicable for a Specialized Service or Arrangement provided on an individual case basis as set forth in Section 12 following, is one month unless a different minimum period is established with the individual case filing.

When a service is discontinued prior to the expiration of the minimum period, charges are applicable, whether the service is used or not, as follows:

(A) When a service with a one month minimum period is discontinued prior to the expiration of the minimum period, a one month charge will apply at the rate level in effect at the time service is discontinued.

(B) When a service with a minimum period greater than one month is discontinued prior to the expiration of the minimum period, the applicable charge will be the lesser of (1) the Telephone Company's total nonrecoverable costs less the net salvage value for the discontinued service or (2) the total monthly charges, at the rate level in effect at the time service is discontinued, for the remainder of the minimum period.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.3 Cancellation of an Order for Service

Provisions for the cancellation of an order for service are set forth in other applicable sections of this tariff.

2.4.4 Credit Allowance for Service Interruptions

(A) General

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer as set forth in Section 6.2.1 following. An interruption period starts when an inoperative service is reported to the Telephone Company, and ends when the service is operative.

(B) When a Credit Allowance Applies

In case of an interruption to any service, allowance for the period of interruption, if not due to the negligence of the customer, shall be provided. For Digital Data Access, D1 through D4 and High Capacity, HC1, Special Access Services, any period during which the error performance is below that specified for the service will be considered as an interruption.

Service interruptions for Specialized Service or Arrangements provided under Section 12 following shall be administered in the same manner as those set forth in this Section (2.4.4) unless other regulations are specified with the individual case filing.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Equipment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

Credit allowances are computed as follows:

(1) Special Access Service other than Program Audio and Video

For Special Access Services other than Program Audio and Video Services, no credit shall be allowed for an interruption of less than 30 minutes. The customer shall be credited for an interruption of 30 minutes or more at the rate of 1/1440 of the monthly charges for the facility or service for each period of 30 minutes or major fraction thereof that the interruption continues.

The monthly charges used to determine the credit shall be as follows:

(a) Two-point Services

For two-point services, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., two channel terminations, channel mileage and optional features and functions).

(b) Multipoint Services

For multipoint services, the monthly charge shall be only the total of all the monthly rate element charges associated with that portion of the service that is inoperative (i.e., a channel termination per customer designated premises, channel mileage and optional features and functions).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(1) Special Access Service other than Program Audio and Video (Cont'd)

(c) Multiplexed Services

For multiplexed services, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service that is inoperative. When the facility which is multiplexed or the multiplexer itself is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., the channel termination, channel mileage and optional features and functions, including the multiplexer on the facility to the hub, and the channel terminations, channel mileages and optional features and functions on the individual services from the hub). When the service which rides a channel of the multiplexed facility is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service from the hub to a customer premises (i.e., channel termination, channel mileage and optional features and functions).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(2) Program Audio and Video Special Access Services

For Program Audio and Video Special Access Services, no credit shall be allowed for an interruption of less than 30 seconds. The customer shall be credited for an interruption of 30 seconds or more as follows:

(a) For two-point services, when monthly rates are applicable, the credit shall be at the rate of 1/8640 of the monthly charges for the service for each period of 5 minutes or fraction thereof that the interruption continues.

(b) For two-point services, when daily rates are applicable, the credit shall be at the rate of 1/288 of the daily charges for the service for each period of 5 minutes or fraction thereof that the interruption continues.

(c) For multipoint services, when monthly rates are applicable, the credit shall be at the rate of 1/8640 of the monthly charges for each channel termination, channel mileage and optional features and functions that are inoperative for each period of 5 minutes or fraction thereof that the interruption continues.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(2) Program Audio and Video Special Access Services (Cont'd)

(d) For multipoint services, when daily rates are applicable, the credit shall be at the daily rate of 1/288 of the daily charges for channel termination, channel mileage and optional features and functions that are inoperative for each period of 5 minutes or fraction thereof that the interruption continues.

(e) For multipoint services, the credit for the monthly or daily charges includes the charges for the distribution amplifier only when the distribution amplifier is inoperative.

(f) When two or more interruptions occur during a period of 5 consecutive minutes, such multiple interruptions shall be considered as one interruption.

(3) Switched Access

For Switched Access Service, no credit shall be allowed for an interruption of less than 24 hours. The customer shall be credited for an interruption of 24 hours or more at the rate of 1/30 of any applicable monthly rate or assumed minutes of use charge for each period of 24 hours or major fraction thereof that the interruption continues.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(4) Credit Allowances Cannot Exceed Monthly Rate

The credit allowance(s) for an interruption or for a series of interruptions shall not exceed any monthly rate for the service interrupted in any one monthly billing period.

(C) When a Credit Allowance Does Not Apply

No credit allowance will be made for:

(1) Interruptions caused by the negligence of the customer.

(2) Interruptions of a service due to the failure of equipment or systems provided by the customer or others.

(3) Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.

(4) Interruptions of a service when the customer has released that service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service during the time that was negotiated with the customer prior to the release of that service. Thereafter, a credit allowance as set forth in (B) preceding applies.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(C) When a Credit Allowance Does Not Apply (Cont'd)

(5) The period for which no credit allowance is made begins on the seventh day after the customer receives the Telephone Company's written notification of the need for such replacement and ends on the day after receipt by the Telephone Company of the customer's written authorization for such replacement.

(6) Periods when the customer elects not to release the service for testing and/or repair and continues to use it on an impaired basis.

(7) An interruption or a group of interruptions, resulting from a common cause, that would result in credit in an amount less than one dollar.

(D) Use of an Alternative Service Provided by the Telephone Company

Should the customer elect to use an alternative service provided by the Telephone Company during the period that a service is interrupted, the customer must pay the tariffed rates and charges for the alternative service used.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(E) Temporary Surrender of a Service

In certain instances, the customer may be requested by the Telephone Company to surrender a service for purposes other than maintenance, testing or activity relating to a service order. If the customer consents, a credit allowance will be granted. The credit allowance will be 1/1440 of the monthly rate for each period of 30 minutes or major fraction thereof that the service is surrendered. In no case will the credit allowance exceed the monthly rate for the service surrendered in any one monthly billing period.

2.4.5 Re-establishment of Service Following Fire Flood or Other Occurrence

(A) Nonrecurring Charges Do Not Apply

Charges do not apply for the re-establishment of service following a fire, flood or other occurrence attributed to an Act of God provided that:

(1) The service is of the same type as was provided prior to the fire, flood or other occurrence.

(2) The service is for the same customer.

(3) The service is at the same location on the same premises.

(4) The re-establishment of service begins within 60 days after Telephone Company service is available. (The 60 day period may be extended a reasonable period if the renovation of the original location on the premises affected is not practical within the allotted time period).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.5 The establishment of Service Following Fire Flood or other Occurrence (Cont'd)

(B) Nonrecurring Charges Apply

Nonrecurring Charges apply for establishing service at a different location on the same premises or at a different premises pending re-establishment of service at the original location.

2.4.6 Title or Ownership Rights

The payment of rates and charges by customers for the services offered under the provisions of this tariff does not assign, confer or transfer title or ownership rights to proposals or facilities developed or utilized, respectively, by the Telephone Company in the provision of such services.

2.4.7 Access Services Provided By More Than One Telephone Company

(A) When an Access Service is provided by more than one Telephone Company, the Telephone Companies involved will mutually agree upon one of the billing methods as set forth in (1) and (2) following based upon the interconnection arrangements between the Telephone Companies and the availability of measurement capability. The Telephone Company will notify the customer which of the billing methods will be used. The customer will place the order for the service as set forth in Section 5.3 following dependent upon the billing method.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(1) Non Meet Point Billing

The Non Meet Point Billing options may be applied only to Feature Group A Switched Access Service.

(a) Single Company Billing/Single Bill Option

The Telephone Company receiving the order from the customer, as specified in Section 5.3.1(A) following, will arrange to provide the service, determine the applicable charges and bill the customer for the entire service in accordance with its Access Services tariff.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing

Meet Point Billing is required when an access service is provided by multiple Telephone Companies for Feature Groups B, C and D Switched Access Services and Special Access. For usage rated access services the access minutes of use will be determined by the Initial Billing Company and used by the Initial Billing Company and any Subsequent Billing Company(s) for the development of access charges.

When ordering, rating and billing of Access Services under this tariff involves more than one Company, the Companies involved will mutually agree upon one of the billing methods as set forth in 2.4.7(A)(2) following based upon the interconnection arrangements between the Companies. The Company will notify the customer which billing method will be used when the customer orders Access Service. In addition, the Company will provide the customer written notice prior to Meet Point Billing implementation and/or any changes to billing options at least 30 days in advance. The billing method set forth in 2.4.7(A)(2)(a) following is applicable only to interconnection arrangements between Companies involved in the provision of Feature Group A (FGA) Switched Access Service. The billing methods set forth in 2.4.7(A)(2)(b) following are applicable to interconnection arrangements between Companies involved in the provision of Feature Group B (FGB), Feature Group C (FGC), and Feature Group D (FGD) Switched Access, and Special Access Services. In accordance with the Federal Communications Commission's Memorandum Opinion and Order in CC Docket No. 86-104, adopted July 20, 1987, the Company will comply with the standards set forth in the Multiple Exchange Carrier Access Billing (MECAB) and the Multiple Exchange Carrier Ordering and Design (MECOD) Guidelines for jointly provided access. These documents are available for customer inspection at the issuing company's business office. The Companies involved in providing the Access Service, will develop a mutually agreeable working arrangement to allow one of the Companies to perform "Access Service Coordination" (ASC) for all services requested.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

- The Initial Billing Company for Feature Groups B, C and D Switched Access Services is normally the end user's end office, for WATS usage the Initial Billing Company is normally the WATS serving office. When the Initial Billing Company is other than the normally designated Telephone Company office, the Telephone Company will notify the customer.

- The Subsequent Billing Company(s) is any Telephone Company(s) in whose territory a segment of Local Transport is provided and/or where the customer's Point of Termination is located.

There are two Meet Point Billing Options -- Single Bill and Multiple Bill. The Telephone Company will utilize the Multiple Bill Meet Point Billing Option for all special access and switched Feature Group B, C and D access services.

The Telephone Company must notify the customer of:

- the Meet Point Billing Option that will be used,

- the Telephone Company(s) that will render the bill(s)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

- the Telephone Company(s) to whom payment(s) should be remitted, and

- the Telephone Company(s) that will provide the bill inquiry function.

The Telephone Company shall provide such notification at the time that orders are placed for access service. Additionally, the Telephone Company shall provide this notice in writing 30 days in advance of any changes.

The Telephone Company that renders the bill -- the Bill Rendering Telephone Company -- will include on the access service bill, based upon Industry Standards as described in the Multiple Exchange Carrier Access Billing Guidelines and the Multiple Exchange Carrier Ordering and Design Guidelines, cross reference(s) to the other Telephone Company(s) service and the common circuit identifiers. Should a billing dispute arise, the terms and conditions of the Bill Rendering Telephone Company will apply.

(a) Single Bill Option

The Single Bill option provides the following three billing alternatives:

- Single Bill/Multiple Tariff,

- Single Bill/Pass-Through Billing, and

- Single Bill/Single Tariff

These options are described following in i, ii and iii respectively.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(a) Single Bill Option (Cont'd)

(i) Single Bill/Multiple Tariff

Each Telephone Company will receive an order or a copy of the order from the customer as specified in Section 5.3.2 following and arrange to provide the service. The Bill Rendering Telephone Company will:

- determine and include all other recurring and nonrecurring rates and charges for each involved Telephone Company;
- identify each involved Telephone Company's rates and charges separately on the bill;
- forward the bill to the customer; and
- advise the customer how to remit the payment, either directly to each Telephone Company involved in the provision of this meet point billed service; or, as a single payment made to the Bill Rendering Telephone Company. If payments are to be sent directly to the Bill Rendering Telephone Company, the non-bill rendering Telephone Company(s) will provide the customer with written authorization for the payment arrangement.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Equipment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(a) Single Bill Option (Cont'd)

(ii) Single Bill/Pass-Through Billing

Each Telephone Company will receive an order or a copy of the order from the customer as specified in Section 5.3.2 following and arrange to provide the service. Each Telephone Company will:

- prepare its own bill;
- determine its rates and charge(s) for Local Transport and/or Channel Mileage as set forth in (c) following;
- determine and include all other recurring and nonrecurring rates and charges of its access tariff; and
- forward the bill to the Bill meet point billed access services.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(a) Single Bill Option (Cont'd)

(ii) Single Bill/Pass-Through Billing (Cont'd)

The Bill Rendering Telephone Company will:

- apply usage data, when needed, to the bill and calculate the charges;
- identify each involved Telephone Company's charges separately on the bill;
- combine all the bills of the involved Telephone Companies of a meet point billed access service into one access bill;
- forward the bill to the customer; and
- advise the customer how to remit the payment, either directly to each Telephone Company involved in the provision of this meet point billed service; or, as a single payment made to the Bill Rendering Telephone Company. If payments are to be sent directly to the Bill Rendering Telephone Company, the non-bill rendering Telephone Company(s) will provide the customer with written authorization for the payment arrangement.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(a) Single Bill Option (Cont'd)

(iii) Single Bill/Single Tariff

Each Telephone Company will receive an order or a copy of the order from the customer as specified in Section 5.3.2 following and arrange to provide the service. The Bill Rendering Telephone Company will:

- determine and include all other recurring and nonrecurring rates and charges of its access tariff; and

- forward the bill to the customer.

The customer will remit the payment to the Bill Rendering Telephone Company.

(b) Multiple Bill Option

Each Telephone Company will receive an order or a copy of the order from the customer as specified in Section 5.3.2 following. Each Telephone Company will be the Bill Rendering Telephone Company and will:

- prepare its own bill;

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(b) Multiple Bill Option (Cont'd)

- determine its charge(s) for Local Transport, and/or Channel Mileage as set forth following;
- determine and include all other recurring and nonrecurring rates and charges of its access tariff;
- bill in accordance with its access tariff; and
- forward its bill to the customer.

The customer will remit payment directly to each Bill Rendering Telephone Company.

(c) Determination of Meet Point Billed Local Transport and Channel Mileage Charges

Each Telephone Company's portion of the Local Transport and Channel Mileage will be determined as follows:

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(c) Determination of Meet Point Billed Local Transport and Channel Mileage Charges (Cont'd)

(i) Determine the Appropriate Local Transport or Channel Mileage by computing the number of airline miles between the Telephone Company premises (end office, access tandem or serving wire centers for Switched Access or serving wire centers for Special Access) using the V&H method set forth respectively in Section 6.4.6, Section 7.4.6 and Section 16.1 following.

(ii) Determine the billing percentage (BP), as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, which represents the portion of the service provided by each Telephone Company.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(c) Determination of Meet Point Billed Local Transport and Channel Mileage Charges (Cont'd)

(iii) For Feature Groups A, B, C and D Switched Access Services, (a) multiply the number of access minutes of use times the number of airline miles, as set forth in (i) preceding, times the BP for each Telephone Company, as set forth in (ii) Preceding, times the Local Transport Facility rate; (b) multiply the Local Transport Termination rate times the number of access minutes.

The Local Transport Termination rate is applied as set forth in Section 6.1.3(A) following. The Switched Access Nonrecurring Charges are applied as set forth in 6.4.1(B) following.

(Note: The BP is not applied to either the Switched Access Local Transport Termination Recurring Rate or any Nonrecurring Charge.)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Continued)

(2) Meet Point Billing (Cont'd)

(c) Determination of Meet Point Billed Local Transport and Channel Mileage Charges (Cont'd)

(iv) For Special Access, the charges for the Telephone Company portion of the Channel Mileage per mile element for services provided are determined as follows:

(a) Determine the Channel Mileage distance by computing the airline mileage between the two ends of the transport. Determine the airline mileage for the Channel Mileage per mile element using the V & H method as set forth in Section 7.4.6 following.

(b) Determine the rate for the airline mileage determined in (a) preceding using the rate schedule set forth in Section 17.3.2 following.

(c) Determine the billing percentage (BP), as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, which represents the portion of the service provided by each Exchange Telephone Company.

(d) Multiply the number of airline miles, as set forth in (a) preceding, times the Channel Mileage per mile rate, times the BP for the Exchange Telephone Company, as set forth in (c) preceding.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Continued)

(2) Meet Point Billing (Cont'd)

(c) Determination of Meet Point Billed Local Transport and Channel Mileage Charges (Cont'd)

(v) When three or more Telephone Companies are involved in providing an Access Service, the intermediate Telephone Company(s) will determine the appropriate charges as set forth in (iii) and (iv) preceding, except the Local Transport Termination or Channel Mileage Fixed rate does not apply at the intermediate Telephone Company(s) offices.

(3) The application of non distance sensitive recurring and non-recurring rate elements varies according to the rate structure and the location of the facilities involved.

(a) When rates and charges are listed on a per point of termination basis, the Exchange Telephone Company's rates will be billed for the terminations(s) within the Exchange Telephone Company's operating territory. These rates and charges will not apply when the Exchange Telephone Company provides access service as an intermediate, non-terminating Exchange Telephone Company.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit3 Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Continued)

(3) (Continued)

(b) When rates and charges are listed on a per unit basis, e.g., central office bridging or multiplexing, the Exchange Telephone Company's rates and charges will apply for units located in the Exchange Telephone Company's operating territory.

(c) When rates and charges are developed on an individual case basis, such rates will be developed for the portion of the service provided by the Exchange Telephone Company.

(d) When rates and charges are listed on a per service basis, such rates and charges will apply.

(e) Fifty percent (50%) of the Channel Mileage fixed rate, voice grade performance and conditioning rates specified in Section 17.3.2 following will be billed for each end of the service that terminates within the Exchange Telephone Company's operating territory. These rates and charges will not apply when the Exchange Telephone Company provides access service as an intermediate, non-terminating company. One hundred percent (100%) of the Channel Mileage fixed rate for DS3 service will be billed by the Telephone Company.

Where the Exchange Telephone Company is the intermediate company in a meet point billing arrangement, none of the non-recurring charges listed in Section 17 of this tariff will apply.

ACCESS SERVICE

2. General Regulation (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

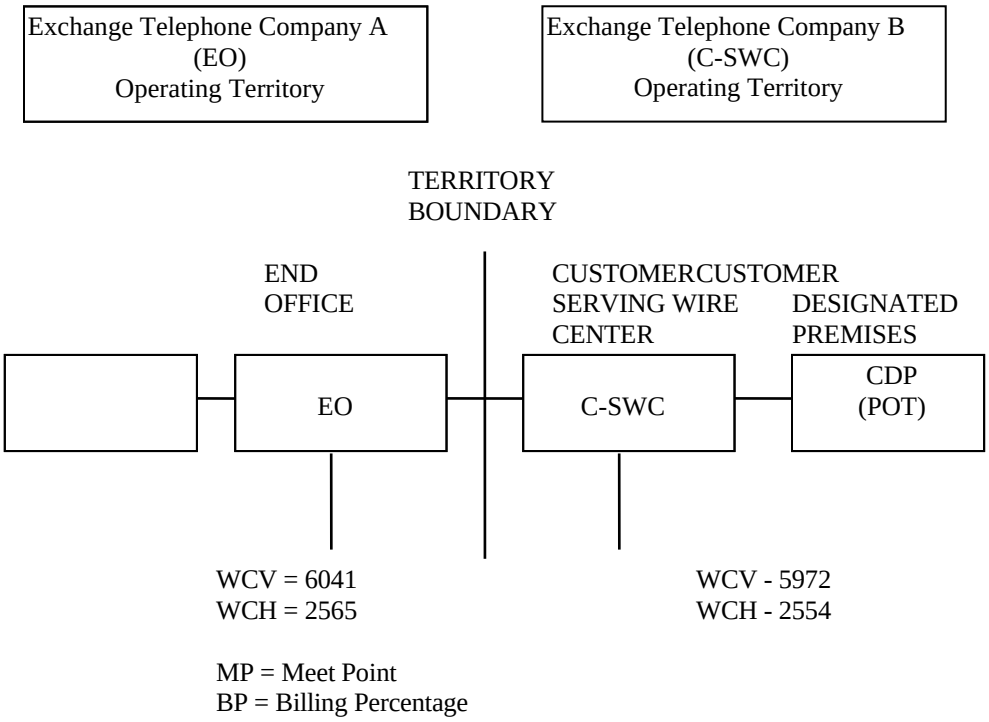
(B) Example - Switched Access

(1) Layout

(a) Feature Group C Switched Access is ordered to End Office A.

(b) End Office A is in operating territory of Telephone Company A.

(c) Customer designated premises is in operating territory of Telephone Company B.



ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(B) Example - Switched Access (Cont'd)

The following examples reflect rate calculations.

(2) Assume: Airline miles (ALM) TC A premises to TC B premises = 22.1, rounded = 23.

Billing Percentage (BP)
Exchange Telephone Company A = 20%
Exchange Telephone Company B = 80%

Access Minutes (AM) = 9000

Local Transport Rates: (Combination of LT Facility & Termination)
Local Transport Facility Rate = LT FAC (Per Minute-Per Mile)
Local Transport Termination Rate = LT TERM (Per Minute)

LT FAC = $0.000272 per minute-per mile
LT TERM = $0.006552 per minute

(3) Local Transport Charge Calculation:
(with Billing Percentage (BP) @ 20% for Telephone Company A)

Formula:

Access Minutes x Airline Miles x Billing Percentage x Local Transport Facility Rate + [Local Transport Termination Rate x Access Minute (AM)] = TOTAL LOCAL TRANSPORT CHARGE for TC A

Calculation:
Local transport Charges for Exchange Telephone Company A)

(9000 x 23 x 20% x $0.000272) + (9000 x $0.006552) = $ 70.23

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.8 Distance Learning Discount

Upon submission of an affidavit that complies with the requirements of the Public Utility Commission of Texas' Substantive Rule 23.93, 16 T.A.C., and educational institution, as defined in Substantive Rule 23.93(a)(2), may obtain a 25% discount on the tariffed rate for any tariffed service that is predominantly used for distance learning purposes.

2.5 Connections

Equipment and Systems (i.e., terminal equipment, multi line terminating systems and communications systems) may be connected with Switched and Special Access Service furnished by the Telephone Company where such connection is made in accordance with the provisions specified in Technical Reference Publication AS No. 1 and in Section 2.1 preceding.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions

Certain terms used herein are defined as follows:

Access Code

The term "Access Code", denotes a uniform five or seven digit access code assigned by the Telephone Company to an individual customer. The five digit access code has the form 1OXXX, and the seven digit code has the form 950-1XXX or 950-XXX.

Access Minutes

For the purpose of calculating chargeable usage, the term "Access Minutes" denotes customer usage of exchange facilities in the provision of interstate or foreign service. On the originating end or an interstate or foreign call, usage is measured from the time the originating end user's call is delivered by the Telephone Company to and acknowledged as received by the customer's facilities connected with the originating exchange. On the terminating end of an interstate or foreign call, usage is measured from the time the call is received by the end user in the terminating exchange. Timing of usage at both originating and terminating ends of an interstate or foreign call shall terminate when the calling or called party disconnects, whichever event is recognized first in the originating and terminating exchanges, as applicable.

Access Tandem

The term "Access Tandem" denotes a Telephone Company or centralized equal access provider switching system that provides a concentration and distribution function for originating or terminating traffic between end offices and a customer designated premises.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Answer/Disconnect Supervision

The term "Answer/Disconnect Supervision" denotes the transmission of the switch trunk equipment supervisory signal (off-hook or on-hook) to the customer's point of termination as an indication that the called party has answered or disconnected.

Attenuation Distortion

The term "Attenuation Distortion" denotes the difference in loss at specified frequencies relative to the loss at 1004 Hz, unless otherwise specified.

Answer Message

The term "Answer Message" denotes an SS7 message sent in the backward direction to indicate that the call has been answered.

Balance (100 Type) Test Line

The term "Balance (100 Type) Test Line" denotes an arrangement in an end office which provides for balance and noise testing.

Bit

The term "Bit" denotes the smallest unit of information in the binary system of notation.

Business Day

The term "Business Day" denotes the times of day that a company is open for business. Generally, in the business community, these are 8:00 or 9:00 a.m. to 5:00 or 6:00 p.m., respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week. However, Business Day hours for the Telephone Company may vary based on company policy, union contract and location. To determine such hours for an individual company, or company location, that company should be contacted at the address shown on the footer at the bottom of this tariff page

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Busy Hour Minutes of Capacity (BHMC)

The term "Busy Hour Minutes of Capacity (BHMC)" denotes the customer specified maximum amount of Switched Access Service access minutes the customer expects to be handled in an end office switch during any hour in an 8:00 a.m. to 11:00 p.m. period for the Feature Group ordered. This customer specified BHMC quantity is the input data the Telephone Company uses to determine the number of transmission paths for the Feature Group ordered.

Call

The term "Call" denotes a customer attempt for which complete address information (e.g., 0-, 911, or 10 digits) is provided to the serving dial tone office.

Carrier or Common Carrier

See Interexchange Carrier.

CCS

The term "CCS" denotes a hundred call seconds, which is a standard unit of traffic load that is equal to 100 seconds of usage or capacity of a group of servers (e.g., trunks).

Central Office

See End Office.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Central Office Maintenance Technician

The term "Central Office Maintenance Technician" denotes a Telephone Company employee who performs installation and/or repair work, including testing and trouble isolation, within the Telephone Company Central Office.

Central Office Prefix

The term "Central Office Prefix" denotes the first three digits (NXX) of the seven digit telephone number assigned to a customer's Telephone Exchange Service when dialed on a local basis.

Channel(s)

The term "Channel(s)" denotes an electrical or photonic, in the case of fiber optic-based transmission systems, communications path between two or more points of termination.

Channel Service Unit

The term "Channel Service Unit" denotes equipment which performs one or more of the following functions: termination of a digital facility, regeneration of digital signals, detection and/or correction of signal format error, and remote loop back.

Channelize

The term "Channelize" denotes the process of multiplexing-demultiplexing wider bandwidth or higher speed channels into narrower band-width or lower speed channels.

C-Message Noise

The term "C-Message Noise" denotes the frequency weighted average noise within an idle voice channel. The frequency weighting, called C-message, is used to simulate the frequency characteristic of the 500-type telephone set and the hearing of the average subscriber.

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

C-Notched Noise

The term "C-Notched Noise" denotes the C-message frequency weighted noise on a voice channel with a holding tone, which is removed at the measuring end through a notch (very narrow band) filter.

Coin Station

See Pay Telephone.

Common Channel Signaling System 7 (CCS7)

The term "Common Channel Signaling System 7 (CCS7)" denotes a dedicated out-of-band signaling network which utilizes Signaling System 7 (SS7) protocol to provide call handling and data base access services.

Common Line

The term "Common Line" denotes a line, trunk, pay telephone line or other facility provided under the general and/or local exchange service tariffs of the Telephone Company, terminated on a central office switch. A common line-residence is a line or trunk provided under the residence regulations of the general and/or local exchange service tariffs. A common line-business is a line provided under the business regulations of the general and/or local exchange service tariffs.

Communications System

The term "Communications System" denotes channels and other facilities which are capable of communications between terminal equipment provided by other than the Telephone Company.

Customer(s)

The term "Customer(s)" denotes any individual, partnership, association, joint-stock company, trust, corporation, or governmental entity or other entity which subscribes to the services offered under this tariff, including but not limited to Interexchange Carriers (ICs), End Users and other telecommunications carriers or providers originating or terminating toll VoIP-PSTN traffic.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Customer Designated Premises

The term "Customer Designated Premises" denotes the premises specified by the customer for the provision of Access Service.

Data Transmission (107 Type) Test Line

The term "Data Transmission (107 Type) Test Line" denotes an arrangement which provides for a connection to a signal source which provides for a connection to a signal source which provides test signals for one-way testing of data and voice transmission parameters.

Decibel

The term "Decibel" denotes a unit used to express relative difference in power, usually between acoustic or electric signals, equal to ten (10) times the common logarithm of the ratio of two signal powers.

Decibel Reference Noise C-Message Weighting

The term "Decibel Reference Noise C-Message Weighting in decibels relative to a reference 1000 Hz tone of 90 dB below 1 milliwatt.

Decibel Reference Noise C-Message Referenced to 0

The term "Decibel Reference Noise C-Message Referenced to 0" denotes noise power in "Decibel Reference Noise C-Message Weighting" referred to or measured at a zero transmission level point.

Detail Billing

The term "Detail Billing" denotes the listing of each message and/or rate element for which charges to a customer are due on a bill prepared by the Telephone Company.

Digital Switched 56 Service

A switched access optional feature available with Feature Group D Access, which provides for data transmission at up to 56 Kilobits per second.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Directory Assistance

The term "Directory Assistance" denotes the provision of telephone numbers by a Telephone Company operator when the operator location is accessed by a customer by dialing NPA + 555-1212 or 555-1212.

Directory Assistance Location

The term "Directory Assistance Location" denotes a Telephone Company office where telephone company equipment first receives the Directory Assistance call from the customer's end user and selects the first operator position to respond to the Directory Assistance call.

Dual Tone Multifrequency Address Signaling

The term "Dual Tone Multifrequency Address Signaling" denotes a type of signaling that is an optional feature of Switched Access Feature Group A. It may be utilized when Feature Group A is being used in the terminating direction (from the point of termination with the customer to the local exchange end office). An office arranged for Dual Tone Multifrequency Signaling would expect to receive address signals from the customer in the form of Dual Tone Multifrequency signals.

Echo Control

The term "Echo Control" denotes the control of reflected signals in a telephone transmission path.

Echo Path Loss

The term "Echo Path Loss" denotes the measure of reflected signal at a 4-wire point of interface without regard to the send and receive Transmission Level Point.

Echo Return Loss

The term "Echo Return Loss" denotes a frequency weighted measure of return loss over the middle of the voiceband (approximately 500 to 2500 Hz), where talker echo is most annoying.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Effective 2-Wire

The term "Effective 2-Wire" denotes a condition which permits the simultaneous transmission in both directions over a channel, but it is not possible to insure independent information transmission in both directions. Effective 2-wire channels may be terminated with 2-wire or 4-wire interfaces.

Effective 4-Wire

The term "Effective 4-Wire" denotes a condition which permits the simultaneous independent transmission of information in both directions over a channel. The method of implementing effective 4-wire transmission is at the discretion of the Telephone Company (Physical, time domain, frequency-domain separation or echo cancellation techniques). Effective 4-wire channels may be terminated with a 2-wire interface at the customer's premises. However, when terminated 2-wire, simultaneous independent transmission cannot be supported because the two wire interface combines the transmission paths into a single path.

End Office

The term "End Office" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks. This term includes Remote Switching Modules/Systems served by a Host Central Office in a different wire center.

End User

The term "End User" means any customer of an interstate or foreign telecommunications service that is not a carrier, except that a carrier other than a telephone company shall be deemed to be an "end user" when such carrier uses a telecommunications service for administrative purposes, and a person or entity that offers telecommunications service exclusively as a reseller shall be deemed to be an "end user" if all resale transmissions offered by such reseller originate on the premises of such reseller.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Enhanced Service

The term "Enhanced Service", as defined in Part 64 of the F.C.C.'s Rules and Regulations, are services "...offered over common carrier transmission facilities used in interstate communications, which employ computer processing applications that act on the format, content, code, protocol or similar aspects of the subscriber's transmitted information; provide the subscriber additional, different, or restructured information; or involve subscriber interaction with stored information."

Entry Switch

See First Point of Switching.

Envelope Delay Distortion

The term "Envelope Delay Distortion" denotes a measure of the linearity of the phase versus frequency of a channel.

Equal Level Echo Path Loss

The term "Equal Level Echo Path Loss" (ELEPL) denotes the measure of Echo Path Loss (EPL) at a 4-wire interface which is corrected by the difference between the send and receive Transmission Level Point (TLP). [ELEPL = EPL - TLP (send) + TLP (receive)].

Exchange

The term "Exchange" denotes a unit generally smaller than a local access and transport area, established by the Telephone Company for the administration of communications service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated facilities used in furnishing communications service within that area. The exchange includes any Extended Area Service area that is an enlargement of a Telephone Company's exchange area to include nearby exchanges. One or more designated exchanges comprise a given local access and transport area.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Expected Measured Loss

The term "Expected Measured Loss" denotes a calculated loss which specifies the end-to-end 1004-Hz loss on a terminated test connection between two readily accessible manual or remote test points. It is the sum of the inserted connection loss and test access loss including any test pads.

Extended Area Service

See Exchange.

Exit Message

The term "Exit Message" denotes an SS7 message sent to an end office by the Telephone Company's tandem switch to mark the carrier connect time when the Telephone Company's tandem switch sends an initial address message to an Interexchange Customer.

First Point of Switching

The term "First Point of Switching" denotes the first Telephone Company or centralized equal access provider location at which switching occurs on the terminating path of a call proceeding from the customer designated premises to the terminating end office and, at the same time, the last Telephone Company or centralized equal access provider location at which switching occurs on the originating Path of a call proceeding from the originating end office to the customer designated premises.

Frequency Shift

The term "Frequency Shift" denotes the change in the frequency of a tone as it is transmitted over a channel.

Grandfathered

The term "Grandfathered" denotes Terminal Equipment, Multi line Terminating Systems and Protective Circuitry directly connected to the facilities utilized to provide services under the provisions of this tariff, and which are considered grandfathered under Part 68 of the F.C.C.'s Rules and Regulations.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Host Central Office

The term "Host Central Office" denotes an electronic local Telephone Company End Office where Telephone Exchange Services customer station loops are terminated for purposes of interconnection to each other and to trunks. Additionally, this type of End Office contains the central call Processing functions which service itself and its Remote Switching Modules/Systems.

Hub

A wire center at which bridging or multiplexing functions are performed for customers served out of any wire center.

Immediately Available Funds

The term "Immediately Available Funds" denotes a corporate or personal check drawn on a bank account and funds which are available for use by the receiving party on the same day on which they are received and include U.S. Federal Reserve bank wire transfers, U.S. Federal Reserve notes (paper cash), U.S. coins, U.S. Postal Money Orders and New York Certificates of Deposit.

Impedance Balance

The term "Impedance Balance" denotes the method of expressing Echo Return Loss and Singing Return Loss at a 4-wire interface whereby the gains and/or loss of the 4-wire portion of the transmission path, including the hybrid, are not included in the specification.

Impulse Noise

The term "Impulse Noise" denotes any momentary occurrence of the noise on a channel over a specified level threshold. It is evaluated by counting the number of occurrences which exceed the threshold.

Individual Case Basis

The term "Individual Case Basis" denotes a condition in which the regulations, if applicable, rates and charges for an offering under the provisions of this tariff are developed based on the circumstances in each case.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Initial Address Message

The term "Initial Address Message" denotes an SS7 message sent in the forward direction to initiate trunk set up with the busying of an outgoing trunk which carries information about that trunk in addition to other information regarding the routing and handling of the call to the next switch.

Inserted Connection Loss

The term "Inserted Connection Loss" denotes the 1004 Hz power difference (in dB) between the maximum power available at the originating end and the actual power reaching the terminating end through the inserted connection.

Installation and Repair Technician

The term "Installation and Repair Technician" denotes a Telephone Company employee who performs installation and/or repair work, including testing and trouble isolation, outside of the Telephone Company Central Office and generally at the customer designated premises.

Interexchange Carrier (IC) or Interexchange Common Carrier

The terms "Interexchange Carrier" (IC) or "Interexchange Common Carrier" denotes any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged for hire in interstate or foreign communication by wire or radio, between two or more exchanges.

Intermediate Hub

A wire center at which bridging or multiplexing functions are performed only for customers served by that wire center and wire centers that subtend the hub, as specified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. No. 4.

Intermodulation Distortion

The term "Intermodulation Distortion" denotes a measure of the nonlinearity of a channel. It is measured using four tones, and evaluating the ratios (in dB) of the transmitted composite four-tone signal power to the second-order products of the tones (R2), and the third-order products of the tones (R3).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Interstate Communications

The term "Interstate Communications" denotes both interstate and foreign communications.

Intrastate Communications

The term "Intrastate Communications" denotes any communications within a state subject to oversight by a state regulatory commission as provided by the laws of the state involved.

Legal Holiday

The term "Legal Holiday" denotes days other than Saturday or Sunday for which the Telephone Company is normally closed. These include New Year's Day, Independence Day, Thanksgiving Day, Christmas Day and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed and other locally observed holidays when the Telephone Company is closed.

Line Side Connection

The term "Line Side Connection" denotes a connection of a transmission path to the line side of a local exchange switching system.

Local Access and Transport Area (LATA)

The term "Local Access and Transport Area" denotes a geographic area established for the provision and administration of communications service. It encompasses one or more designated exchanges, which are grouped to serve common social, economic and other purposes.

Loss Deviation

The term "Loss Deviation" denotes the variation of the actual loss from the designed value.

Major Fraction Thereof

The term "Major Fraction Thereof" denotes any period of time in excess of 1/2 of the stated amount of time. As an example, in considering a period of 24 hours, a major fraction thereof would be any period of time in excess of 12 hours exactly. Therefore, if a given service is interrupted for a period of thirty-six hours and fifteen minutes, the customer would be given a credit allowance for two twenty-four hour periods for a total of forty eight hours.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Message

The term "Message" denotes a "call" as defined preceding.

Milliwatt (102 Type) Test Line

The term "Milliwatt (102 Type) Test Line" denotes an arrangement in an end office which provides a 1004 Hz tone at 0 dBm0 for one-way transmission measurements towards the customers' premises from the Telephone Company end office.

Mobile Telephone Switching Office

The term "Mobile Telephone Switching Office (MTSO)" denotes a Cellular Mobile Carrier (CMC) switching system that is used to terminate mobile stations for purposes of interconnection to each other and to trunks interfacing with the public switched network.

Network Control Signaling

The term "Network Control Signaling" denotes the transmission of signals used in the elecommunications system which perform functions such as supervision (control, status, and charge signals), address signaling (e.g., dialing), calling and called number identifications, rate of flow, service selection error control and audible tone signals (call progress signals indicating re-order or busy conditions, alerting, coin denominations, coin collect and coin return tones) to control the operation of the telecommunications system.

Nonsynchronous Test Line

The term "Nonsynchronous Test Line" denotes an arrangement in step-by-step end offices which provides operational tests which are not as complete as those provided by the synchronous test lines, but can be made more rapidly.

North American Numbering Plan

The term "North American Numbering Plan" denotes a three-digit area code (Numbering Plan Area - NPA) and a seven-digit telephone number made up of a three-digit Central Office prefix plus a four-digit station number.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Off-hook

The term "Off-hook" denotes the active condition of Switched Access or a Telephone Exchange Service line.

On-hook

The term "On-hook" denotes the idle condition of Switched Access or a Telephone Exchange Service line.

Open Circuit Test Line

The term "Open Circuit Test Line" denotes an arrangement in an end office which provides an AC open circuit termination of a trunk or line by means of an inductor of several Henries.

Originating Direction

The term "Originating Direction" denotes the use of access service for the origination of calls from an End User Premises to an IC Premises.

Pay Telephone

The term "Pay Telephone" denotes a location where Telephone Company equipment is provided in a public or semipublic place where Telephone Company customers can originate telephonic communications and pay the applicable charges by (1) inserting coins into the equipment, or (2) using a credit card, or (3) third Party billing the call or (4) calling collect.

Phase Jitter

The term "Phase Jitter" denotes the unwanted phase variations of a signal.

Point of Termination

The term "Point of Termination" denotes the point of demarcation within a customer-designated premises at which the Telephone Company's responsibility for the provision of Access Service ends.

Premises

The term "Premises" denotes a building or buildings on continuous property (except Railroad Right-of-Way, etc.) not separated by a public highway.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Release Message

The term "Release Message" denotes an SS7 message sent in either direction to indicate the release of a specific circuit.

Remote Switching Modules/Systems

The term "Remote Switching Modules/Systems" denotes small, remotely controlled electronic end office switches which obtain their call processing capability from an electronic Host Central Office. The Remote Switching Modules/Systems cannot accommodate direct trunks to an IC.

Return Loss

The term "Return Loss" denotes a measure of the similarity between the two impedances at the junction of two transmission paths. The higher the return loss, the higher the similarity.

Registered Equipment

The term "Registered Equipment" denotes the customer's premises equipment which complies with and has been approved within the Registration Provisions of Part 68 of the F.C.C.'s Rules and Regulations.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Service Access Code

The term "Service Access Code" denotes a 3 digit code in the NPA format which is used as the first three digits of a 10 digit address and which is assigned for special network uses. Whereas NPA codes are normally used for identifying specific geographical areas, certain Service Access Codes have been allocated in the North American Numbering Plan to identify generic services or to provide access capability. Examples of Service Access Codes include the 800/888/877 and 900 codes.

Service Switching Point (SSP)

The term "Service Switching Point" denotes a signaling point that can launch queries to databases and receive/interpret responses used to provide specific customer services.

Serving Wire Center

The term "Serving Wire Center" denotes the wire center from which the customer designated premises would normally obtain dial tone from the Telephone Company.

Seven Digit Manual Test Line

The term "Seven Digit Manual Test Line" denotes an arrangement which allows the Customer to select balance, milliwatt and synchronous test lines by manually dialing a seven digit number over the associated access connection.

Shortage of Facilities or Equipment

The term "Shortage of Facilities or Equipment" denotes a condition which occurs when the Telephone Company does not have appropriate cable, switching capacity, bridging or, multiplexing equipment, etc., necessary to provide the Access Service requested by the customer.

Short Circuit Test Line

The term "Short Circuit Test Line" denotes an arrangement in an end office which provides for an AC short circuit termination of a trunk or line by means of a capacitor of at least four microfarad.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Signal-to-C-Notched Noise Ratio

The term "Signal-to-C-Notched Noise Ratio" denotes the ratio in dB of a test signal to the corresponding C-Notched Noise.

Signaling Point (SP)

The term "Signaling Point" denotes a switch in the common channel signaling network that originates and/or receives signaling messages, or transfers signaling messages from one signaling link to another or both.

Signaling Point of Interface (SPOI)

The term "Signaling Point of Interface" denotes the interface point between the Telephone Company and its access customer for purposes of exchanging SS7 signaling messages for Common Channel Signaling.

Signaling System 7 (SS7)

The term "Signaling System 7" denotes the layered protocol used for standardized common channel signaling in the United States.

Signal Transfer Point (STP)

The term "Signal Transfer Point" denotes a signaling point which routes and/or transfers signaling messages through the Common Channel Signaling Network.

Singing Return Loss

The term "Singing Return Loss" denotes the frequency weighted measure of return loss at the edges of the voiceband (200 to 500 Hz and 2500 to 3200 Hz), where singing (instability) problems are most likely to occur.

Special Order

The term "Special Order" denotes an order for a Directory Assistance Service.

Subtending End Office of an Access Tandem

The term "Subtending End Office of an Access Tandem" denotes an end office that has final trunk group routing through that tandem.

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Super-Intermediate Hub

A wire center at which bridging or multiplexing functions are performed for Customers served by all wire centers in the LATA. A Super Intermediate Hub can be restricted to one or more designated NPAs within a LATA and/or to wire centers that are owned by the same telephone company as the hub. Super Intermediate Hubs and the wire centers they serve are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. No. 4.

Synchronous Test Line

The term "Synchronous Test Line" denotes an arrangement in an end office which performs marginal operational tests of supervisory and ring-tripping functions.

Terminating Direction

The term "Terminating Direction" denotes the use of Access Service for the completion of calls from an IC premises to an End User Premises.

Terminus Hub

A wire center at which bridging or multiplexing functions are performed only for Customers served directly by the same wire center.

Toll VoIP-PSTN Traffic

The term “Toll VoIP-PSTN Traffic” denotes a customer’s interexchange voice traffic exchanged with the Telephone Company in Time Division Multiplexing format over PSTN facilities, which originates and/or terminates in Internet Protocol (IP) format. “Toll VoIP-PSTN Traffic” originates and/or terminates in IP format when it originates from and/or terminates to an end user customer of a service that requires IP-compatible customer premises equipment.

Transmission Measuring (105 Type) Test Line/Responder

The term "Transmission Measuring (105 Type) Test Line/Responder" denotes an arrangement in an end office which provides far-end access to a responder and permits two-way loss and noise measurements to be made on trunks from a near end office.

Transmission Path

The term "Transmission Path" denotes an electrical path capable of transmitting signals within the range of the service offering, e.g., a voice grade transmission path is capable of transmitting voice frequencies within the approximate range of 300 to 3000 Hz. A transmission path is comprised of physical or derived facilities consisting of any form or configuration of plant typically used in the telecommunications industry

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Trunk

The term "Trunk" denotes a communications path connecting two switching systems in a network, used in the establishment of an end-to-end connection.

Trunk Group

The term "Trunk Group" denotes a set of trunks which are traffic engineered as a unit for the establishment of connections between switching systems in which all of the communications paths are interchangeable.

Trunk Side Connection

The term "Trunk Side Connection" denotes the connection of a transmission path to the trunk side of a local exchange switching system.

Two-Wire to Four-Wire Conversion

The term "Two-Wire to Four-Wire Conversion" denotes an arrangement which converts a four-wire transmission path to a two-wire transmission path to allow a four-wire facility to terminate in a two-wire entity (e.g., a central office switch).

V and H Coordinates Method

The term "V and H Coordinates Method" denotes a method of computing airline miles between two points by utilizing an established formula which is based on the vertical and horizontal coordinates of the two points.

WATS Serving Office

The term "WATS Serving Office" denotes a Telephone Company designated serving wire center where switching, screening and/or recording functions are performed in connection with the closed-end of WATS or WATS-type services.

Wire Center

The term "Wire Center" denotes a building in which one or more central offices, used for the provision of Telephone Exchange Services, are located.

ACCESS SERVICE

3. Carrier Common Line Access Service

The Telephone Company will provide Carrier Common Line Access Service (Carrier Common Line Access) to customers in conjunction with Switched Access Service provided in Section 6 of this tariff or the appropriate Switched Access Service section of other Access Service tariffs.

3.1 General Description

Carrier Common Line Access provides for the use of end users' Telephone Company provided common lines by customers for access to such end users to furnish Intrastate Communications.

Premium Access is defined as all usage that:

(i) terminate via Feature Group B;

(ii) originate or terminate via Feature Group C;

(iii) originate from an equal access end office via any switched access feature group;

(iv) terminate to an equal access end office via any switched access feature group; or

(v) originate from a non-equal access end office and are routed over Feature Group D tandem connections.

Non Premium Access is Feature Group A and B usage not identified as premium access above.

A Special Access Surcharge, as set forth in Section 17.3.5 will apply to intrastate special access service provided by the Telephone Company to a customer, in accordance with regulations as set forth in Section 7.4.2 following.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.2 Limitations

3.2.1 Exclusions

Neither a telephone number nor detail billing are provided with Carrier Common Line Access. Additionally, directory listings and intercept arrangements are not included in the rates and charges for Carrier Common Line Access.

3.2.2 Access Groups

All line side connections provided in the same access group will be limited to the same features and operating characteristics.

All trunk side connections provided in the same access group will be limited to the same features and operating characteristics.

3.2.3 WATS Access Lines

Where Switched Access Services are connected with Special Access Services at Telephone Company Designated WATS Serving Offices for the provision of WATS or WATS-type Services, Switched Access Service minutes which are carried on that end of the service (i.e., originating minutes for outward WATS and WATS-type services and terminating minutes for inward WATS and WATS-type services) shall not be assessed Carrier Common Line Access per minute charges with the following exception. Carrier Common Line Access per minute charges shall apply when Feature Group A or Feature Group B switched access is ordered from a non equal access telephone company office that does not have measurement capabilities and the assumed average access minutes, as set forth in the exchange carrier's access tariff are used.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.3 Undertaking of the Telephone Company

3.3.1 Provision of Service

Where the customer is provided Switched Access Service under other sections of this or other Access Service tariffs, the Telephone Company will provide the use of Telephone Company common lines by a customer for access to end users at rates and charges as set forth in Section 17.2.1 following.

3.3.2 Interstate and Intrastate Use

The Switched Access Service provided by the Telephone Company includes the Switched Access Service provided for both interstate and intrastate communications. The Carrier Common Line Access rates and charges as set forth in Section 17.2.1 following apply to intrastate Switched Access Service-access minutes in accordance with the rate regulations as set forth in Section 3.8.4 following (Percent Interstate Use - PIU).

3.4 Obligations of the Customer

3.4.1 Switched Access Service Requirement

The Switched Access Service associated with Carrier Common Line Access shall be ordered by the customer under other sections of this tariff.

3.4.2 Supervision

The customer facilities at the premises of the ordering customer shall provide the necessary on-hook and off-hook supervision.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.4 Obligations of the Customer

3.4.3 Payment Arrangements

The Telephone Company will bill the Carrier Common Line Access. The bill will be rendered by the Telephone Company to the IC on each bill day (i.e., the billing date of the bill) established by the Telephone Company in each month. Payment is due from the customer 31 days after the bill day date (payment date) or by the next bill date (i.e., same date in the following month as the bill date) whichever is the shortest interval and is payable in immediately available funds. If such payment date is a Saturday, Sunday or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the second Tuesday in November, and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment will be due to the Telephone Company as follows:

If such payment date falls on a Saturday, Sunday or on a Holiday which is observed on a Monday, the payment date shall be the first non-Holiday day following such Saturday, Sunday or Holiday.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Determination of Usage Subject to Carrier Common Line Access Charges

Except as set forth herein, all Switched Access Service provided to the customer will be subject to Carrier Common Line Access charges.

3.5.1 Determination of Jurisdiction

When the customer reports interstate and intrastate use of Switched Access Service, the associated Carrier Common Line Access used by the customer for intrastate access will be determined as set forth in Section 3.8.4 following (Percent Interstate Use-PIU).

3.5.2 Cases Involving Usage Recording By the Customer

Where Feature Group C end office switching is provided without Telephone Company recording and the customer records minutes of use used to determine Carrier Common Line Access charges (i.e., Feature Group C operator and calls such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls), the customer shall furnish such minutes of use detail to the Telephone Company in a timely manner. If the customer does not furnish the data, the customer shall identify all Switched Access Services which could carry such calls in order for the Telephone Company to accumulate the minutes of use through the use of special Telephone Company measuring and recording equipment.

3.5.3 Local Exchange Access and Enhanced Services Exemption

When access to the local exchange is required to provide a customer service (e.g., MTS/WATS-type, telex, Data, etc.) that uses a resold Special Access service, Switched Access Service Rates and Regulations, as set forth in Section 6 following will apply, except when such access to the local exchange is required for the provision of an enhanced service. Carrier Common Line Access rates and charges as set forth in Section 17.2.1 following apply in accordance with the resale rate regulations as set forth in Section 3.6.4 following.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Determination of Usage Subject to Carrier Common Line Access Charges

3.5.4 Payment Arrangements

The Telephone Company will bill the Carrier Common Line Access. The bill will be rendered by the Telephone Company to the IC on each bill day (i.e., the billing date of the bill) established by the Telephone Company in each month. Payment is due from the Telephone Company in each month. Payment is due from the customer 31 days after the bill day date (payment date) or by the next bill date (i.e., same date in the following month as the bill date) whichever is the shortest interval and is payable in immediately available funds. If such payment date is a Saturday, Sunday or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the second Tuesday in November, and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment will be due to the Telephone Company as follows:

If such payment date falls on a Saturday, Sunday or on a Holiday which is observed on a Monday, the payment date shall be the first non-Holiday day following such Saturday, Sunday or Holiday.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services

3.6.1 Scope

Where the customer is reselling MTS and/or MTS-type service(s) on which the Carrier Common Line and Switched Access charges have been assessed, the customer may, at the option of the customer, obtain Feature Group A, Feature Group B or Feature Group D Switched Access Service under this tariff as set forth in Section 6 following for originating and/or terminating access in the local exchange. Such access group arrangements whether single lines or trunks or multiline hunt groups or trunk groups will have Carrier Common Line Access charges applied as set forth in Section 17.2.1 following in accordance with the resale rate regulations set forth in Section 3.6.4 following. For purposes of administering this provision

Resold intrastate terminating MTS and MTS-type service(s) shall include collect calls, third number calls and credit card calls where the reseller pays the underlying carrier's service charges. Resold intrastate originating MTS and MTS-type service(s) shall not include collect, third number or credit card minutes of use.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.2 Customer Obligations Concerning the Resale of MTS and MTS-type Services

When the customer is reselling MTS and/or MTS-type service as set forth in Section 3.6.1 preceding, the customer will be charged Carrier Common Line Access charges in accordance with the resale rate regulations as set forth in Section 3.6.4 following if the customer or the provider of the MTS service furnishes documentation of the MTS usage and/or the customer furnishes documentation of the MTS-type usage. Such documentation supplied by the customer shall be supplied each month and shall identify the involved resold MTS and/or MTS-type services.

The monthly period used to determine the minutes of use for resold MTS and/or MTS-type service(s) shall be the most recent monthly period for which the customer has received a bill for such resold service(s). This information shall be delivered to the Telephone Company, at a location specified by the Telephone Company, no later than 15 days after the bill date shown on the resold MTS and/or MTS-type service bill. If the required information is not received by the Telephone Company, the previously reported information, as described preceding, will be used for the next two months. For any subsequent month, no allocation or credit will be made until the required documentation is delivered to the Telephone Company by the customer.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.3 Resale Documentation Provided By the Customer

When the customer utilizes Switched Access Service as set forth in Section 3.6.2 preceding, the Telephone Company may request a certified copy of the customer's resold MTS or MTS-type usage billing from either the customer or the provider of the MTS or MTS-type Service. Requests for billing will relate back no more than 12 months prior to the current billing period.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-type Services

When the customer is provided an access group to be used in conjunction with the resale of MTS and/or MTS-type services as set forth in Section 3.6.1 preceding, subject to the limitations as set forth in Section 3.2 preceding, and the billing entity receives the usage information required as set forth in Section 3.6.2 preceding, to calculate the adjustment of Carrier Common Line Access charges, the customer will be billed as set forth in (D), (E) or (F) following, depending upon, respectively, whether the usage is from non equal access offices, equal access offices or a combination of the two.

(A) Apportionment and Adjustment of Resold Minutes of Use

When the customer is provided with more than one access group in a LATA in association with the resale of MTS and/or MTS-type services, the resold minutes of use will be apportioned as follows:

(1) Originating Services

The Telephone Company will apportion the resold originating MTS and/or MTS-type services and originating minutes of use for which the resale credit adjustment applies, among the access groups. Such apportionment will be based on the relationship of the originating usage for each access group to the total originating usage for all access groups in the LATA. For purposes of administering this provision:

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-type Services (Cont'd)

(A) Apportionment and Adjustment of Resold Minutes of Use (Cont'd)

(1) Originating Services (Cont'd)

Resold originating MTS and/or MTS-type services minutes shall be only those attributable to originating MTS and/or MTS-type minutes and shall not include collect, third number or credit card minutes of use.

The resale credit adjustment shall apply for resold originating MTS and MTS-type services and minutes of use, provided Carrier Common Line and Switched Access Charges have been assessed on such services.

(2) Terminating Services

The Telephone Company will apportion the resold terminating MTS and/or MTS-type services and terminating minutes of use for which the resale credit adjustment applies, among the access groups. Such apportionment will be based on the relationship of the terminating usage for each access group to the total terminating usage for all access groups in the LATA. For purposes of administering this provision:

Resold terminating MTS and/or MTS-type services minutes shall be only those attributable to terminating MTS/MTS-type (i.e., collect calls, third number calls, and credit card calls) and shall not include MTS/MTS-type minutes of use paid for by another party.

The resale credit adjustment shall apply for resold terminating MTS and MTS-type services and minutes of use, provided Carrier Common Line and Switched Access Charges have been assessed on such services.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-type Services (Cont'd)

(B) Same State/Telephone Company/Exchange Limitation

In order for the rate regulations to apply as set forth in (D), (E) or (F) following, the access groups and the resold MTS and/or MTS-type services must be provided in the same state (except when the same extended area service arrangement is provided in two different states by the same telephone company) in the same exchange, provided by the same Telephone Company and connected directly or indirectly. For those exchanges that encompass more than one state, the customer shall report the information by state within the exchange.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-type Services (Cont'd)

(C) Direct and Indirect Connections

Each of the access group arrangements used by the customer in association with the resold MTS and/or MTS-type services must be connected either directly or indirectly to the customer designated premises at which the resold MTS and/or MTS-type services are terminated. Direct connections are those arrangements where the access groups and resold MTS and/or MTS-type services are terminated at the same customer designated premises.

Indirect originating connections are those arrangements where the access groups and the resold originating MTS and/or MTS-type services are physically located at different customer designated premises in the same exchange. Such different customer designated premises are connected by facilities that permit a call to flow from access groups to resold MTS and/or MTS-type services.

Indirect terminating connections are those arrangements where the access groups and resold terminating MTS and/or MTS-type services are physically located at different customer designated premises in the same exchange. Such different customer designated premises are connected by facilities that permit a call to flow from resold terminating MTS and/or MTS-type services to access groups.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-type Services (Cont'd)

(D) Access Groups - Non Premium

The adjustments as set forth here and in (E) and (F) following will be computed separately for each access group.

Non Premium minutes as identified in Section 3.1 will be assessed the Non Premium Access Charge Rate per minute as set forth in Section 17.2.1. The Access Minutes which will be subject to Carrier Common Line Access charges will be the adjusted originating access minutes plus the adjusted terminating access minutes for such access groups.

The adjusted originating access minutes will be the originating access minutes less the reported resold originating MTS and/or MTS-type service minutes of use as set forth (A)(1) preceding; but not less than zero. The adjusted terminating access minutes will be the terminating access minutes less the reported resold terminating MTS and/or MTS-type service minutes of use as set forth in (A)(2) preceding; but not less than zero.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-type Services (Cont'd)

(E) Access Groups - Premium

Premium minutes as identified in Section 3.1 will be assessed the Premium Access Charge Rate as set forth in Section 17.2.1. The minutes billed Carrier Common Line Access Service charges will be the adjusted originating access minutes and the adjusted terminating access minutes for such access groups.

The adjusted originating access minutes will be the originating access minutes less the reported resold originating MTS and/or MTS-type service minutes of use as set forth in (A)(1) preceding; but not less than zero. The adjusted terminating access minutes will be the terminating access minutes less the reported resold terminating MTS and/or MTS-type service minutes of use as set forth in (A)(2) preceding; but not less than zero.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-type Services (Cont'd)

(F) Access Groups - Premium and Non Premium

When an access group has usage that originates from and/or terminates at both end offices, and the minutes of use are deemed to be premium and non premium per Section 3.1, premium and non premium per minute charges as set forth in Section 17.2.1 following will apply respectively. The minutes billed Carrier Common Line Access Service charges will be the adjusted originating access minutes plus the adjusted terminating access minutes for such access groups.

The adjusted originating access minutes will be the originating access minutes less the reported resold originating MTS and/or MTS-type service minutes of use as set forth in (A)(1) preceding; but not less than zero. The adjusted terminating access minutes will be the terminating access minutes less the reported resold terminating MTS and/or MTS-type service minutes of use as set forth in (A)(2) preceding; but not less than zero.

The adjusted originating access minutes and the adjusted terminating access minutes will be apportioned between premium and non premium access minutes using end-office specific usage data when available, or when usage data are not available, the premium and non premium rates developed as set forth in Section 6.4.1(C)(1) and Section 6.4.1(C)(2) following. The Premium and Non-Premium per minute charges set forth in Section 17.2.1 following will apply to the respective premium and non premium access minutes determined in this manner.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-type Services (Cont'd)

(G) When the Adjustment Will Be Applied to Customer Bills

The adjustment as set forth in (D), (E) and (F) preceding will be made to the involved customer account no later than either the next bill date, or the one subsequent to that, depending on when the usage report is obtained.

(H) Conversion of Billed Usage to Minutes

When the MTS and/or MTS-type usage is shown in hours, the number of hours shall be multiplied by 60 to develop the associated MTS and/or MTS-type minutes of use. If the MTS and/or MTS-type usage is shown in a unit that does not show hours or minutes, the customer shall provide a factor to convert the shown units to minutes.

(I) Percent Interstate Use (PIU)

The adjustment as set forth in (D), (E) and (F) preceding will be made to the involved customer account after making the adjustments to the customer account as set forth in Section 3.8.4 following (PIU).

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.7 Coin Services

3.7.1 Collection and Remittance of Coin Station Monies

When the customer is provided Operator Trunk-Coin or Combined Coin and Non-Coin or Operator Trunk-Full Feature Optional Features for sent-paid pay telephone access as set forth in Section 6 following, the Telephone Company will collect sent-paid monies from pay telephone stations and will remit monies to the customer as set forth in Section 3.7.3 following. The Telephone Company will provide message call detail format and bill periods used to determine the monies upon request from the customer.

3.7.2 Provision of Message Call Detail Concerning Coin Station Monies

Where Operator Trunk-Coin or Combined Coin and Non Coin or Operator Trunk-Full Feature Optional Features for sent-paid pay telephone access is provided to the customer and the customer wishes to receive the monies it is due for the monies collected by the Telephone Company from coin pay telephone stations, the customer shall furnish to the Telephone Company, at a location specified by the Telephone Company, the customer message call detail for the customer sent-paid (coin) pay telephone calls in accordance with the Telephone Company collection schedule. The customer message call detail furnished shall be in a standard format established by the Telephone Company. The Telephone Company will provide to the customer the precise details of the required standard format. If, in the course of Telephone Company business, it is necessary to change the standard format, the Telephone Company will provide notification to the involved customer six months prior to the change. If no customer message call detail is received from the customer for each bill period established by the Telephone Company, the Telephone Company will assume there were no customer sent-paid (coin) pay telephone calls for the period. In addition the customer shall furnish a schedule of its charges for sent-paid (coin) calls to the Telephone at a location and date as specified by the Telephone Company. Any change in the customer's schedule of charges shall be furnished to the Telephone Company one day after the change becomes effective.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.7 Coin Services (Cont'd)

3.7.3 Payment of Coin Sent-Paid Monies

The Telephone Company will collect the monies from coin pay telephone stations and will determine and remit amounts due to a customer which is provided Operator Trunk-Coin or Combined Coin and Non-Coin or Operator Trunk-Full Feature Optional Features for sent-paid pay telephone access as set forth in Section 6 as follows:

(A) Bill Period Coin Revenue

The Telephone Company will establish a collection schedule for each coin pay telephone station and will collect the monies from the coin pay stations based on this collection schedule. The monies collected based on this schedule during each bill period established by the Telephone Company will be identified by coin pay telephone station and summed to develop the Bill Period Coin Revenue for each coin record day (i.e., the day a record is prepared and dated to show the amount due the customer).

(B) Total Customer Coin Revenue

The Total Customer Coin Revenue will be determined by the Telephone Company based on the customer message call detail received from the customer for each bill period and the customer's schedule of charges for sent-paid coin calls. Such Total Customer Coin Revenue will be developed each coin record day.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.7 Coin Services (Cont'd)

3.7.3 Payment of Coin Sent-Paid Monies (Cont'd)

(C) Recourse Adjustments

For each coin record day, the Telephone Company will subtract from the Total customer Coin Revenue an amount for coin station shortages. Coin station shortages are amounts resulting from unauthorized calling at coin pay telephone stations, use of unauthorized coins (i.e., foreign coins, slugs and improper use of U.S. pennies), unauthorized removal of coins from coin pay telephone stations and coin refunds beyond the Telephone Company's control. Such amount for coin station shortages will be developed by the Telephone Company by multiplying the Total customer Coin Revenue for each coin record day by a shortage factor. Such amount will be rounded to the nearest penny. The shortage factor will be determined by dividing the yearly total coin shortage amount by the yearly total coin revenue amount (i.e. total coin revenue equals the coin revenue due under exchange tariffs, state toll tariffs, and interstate toll tariffs). The total coin shortage amount and the total revenue amount will be determined by the Telephone Company through an annual special study.

(D) Payment of Net Customer Coin Revenue

The Telephone Company will determine the Net Customer Coin Revenue for each coin record day by subtracting from the Total Customer Coin Revenue determined as set forth in (B) preceding the amount for coin station shortages determined as set forth in (C) preceding. On the date (payment date) determined by adding 45 days to the coin record day, the Telephone Company will remit payment to the customer for the Net Customer Coin Revenue.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.7 Coin Services (Cont'd)

3.7.3 Payment of Coin Sent-Paid Monies (Cont'd)

(E) Audit Provisions

Upon reasonable written notice by the customer to the Telephone Company, the customer shall have the right through its authorized representative to examine and audit, during normal business hours and at reasonable intervals as determined by the Telephone Company, all such records and accounts as may under recognized accounting practices contain information bearing upon the determination of the amount payable to the customer. Adjustment shall be made by the proper party to compensate for any errors or omissions disclosed by such examination or audit. Neither such right to examine and audit nor the right to receive such adjustment shall be affected by any statement to the contrary, appearing on checks or otherwise, unless such statement expressly waiving such right appears in a letter signed by the authorized representative of the party having such right and delivered to the other party.

All information received or reviewed by the customer or its authorized representative is to be considered confidential and is not to be distributed, provided or disclosed in any form to anyone not involved in the audit, nor is such information to be used for any other purpose.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.8 Rate Regulations

3.8.1 Billing of Charges

Carrier Common Line charges will be billed to each Switched Access Service provided under this tariff in accordance with the regulations as set forth in Section 3.8.5 following (Determination of Premium and Non-Premium Charges) except as set forth in Section 3.6.4 preceding (Resale) and Section 3.8.4 following (PIU).

3.8.2 Measuring and Recording of Call Detail

When access minutes are used to determine Carrier Common Line charges, they will be accumulated using call detail recorded by Telephone Company equipment except as set forth in Section 3.8.3 following (Unmeasured FGA and B Usage) and Feature Group C operator and automated operator services systems call detail such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls recorded by the customer. The Telephone Company measuring and recording equipment, except as set forth in Section 3.8.3 following (Unmeasured FGA and B Usage), will be associated with end office or local tandem switching equipment and will record each originating and terminating access minute where answer supervision is received. The accumulated access minutes will be summed on a line by line basis, by line group or by end office, whichever type of account is used by the Telephone Company, for each customer and then rounded to the nearest minute.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.8 Rate Regulations (Cont'd)

3.8.3 Unmeasured Feature Group A and B Usage

When Carrier Common Line Access is provided in association with Feature Group A or Feature Group B Switched Access Service in Telephone Company offices that are not equipped for measurement capabilities, assumed average intrastate access minutes per Section 6.5.4 or Section 6.6.4 will be used to determine Carrier Common Line Access charges. These assumed access minutes are as set forth in the exchange carriers' access tariffs.

3.8.4 Percent Interstate Use (PIU)

When the customer reports interstate and intrastate use of in-service Switched Access Service, Carrier Common Line charges will be billed only to intrastate Switched Access Service access minutes based on the data reported by the customer as set forth in Section 2.3.11 preceding (Jurisdictional Reports), except where the Telephone Company is billing according to actuals by jurisdiction. Intrastate Switched Access Service access minutes will, after adjustment as set forth in Section 3.6.4 preceding (Resale), when necessary, be used to determine Carrier Common Line Charges as set forth in Section 3.8.5 following.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.8 Rate Regulations (Cont'd)

3.8.5 Determination of Premium and Non-Premium Charges

After the adjustments as set forth in Section 3.6.4 and Section 3.8.4 preceding have been applied, when necessary, to Switched Access Service access minutes, charges for the involved customer account will be determined as follows:

(A) Access minutes for all premium rated Switched Access Service subject to Carrier Common Line charges will be multiplied by the Premium Access per minute rate as set forth in Section 17.2.1 following.

(B) Access minutes for all non-premium rated Switched Access Service subject to Carrier Common Line charges will be multiplied by the Non-Premium Access per minute rate as set forth in Section 17.2.1 following.

(C)

(D) Carrier Common Line charges shall not be reduced as set forth in Section 3.6.1 preceding unless Switched Access Charges, as set forth in Section 6 following, are applied to the customer's Switched Access Services.

(E) Terminating Premium Access or non-Premium Access, per minute charge(s) apply to:

- all terminating access minutes of use;

- less those terminating access minutes of use associated with Mobile Telephone Switching Offices (MTSOs).

- all originating access minutes of use associated with FGA Access Services where the off-hook supervisory signaling is forwarded by the customer's equipment when the called party answers;

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.8 Rate Regulations (Cont'd)

3.8.5 Determination of Premium and Non-Premium Charges (Cont'd)

(E) (Cont'd)

- all originating access minutes of use associated with calls placed to 700, 800/888 and 900 numbers, less those originating access minutes of use associated with calls placed to 700, 800/888 and 900 numbers for which the customer furnishes for each month a report of either the number of calls or minutes or a report of the percent of calls or minutes that terminate in a Switched Access Service that is assessed Carrier Common Line charges.

When the customer makes this report available to the Telephone Company in advance of billing, these minutes of use will be charged on the current bill as originating minutes of use as set forth in (F) following. If a billing dispute arises concerning the customer provided report, the Telephone Company will request the customer to provide the data the customer used to develop the report. The Telephone Company will not request such data more than once a year. The customer shall supply the data within 30 days of the Telephone Company request.

When this report is not available to the Telephone Company until after billing, it shall be used by the Telephone Company to calculate and post a credit to the customer's account. The credit shall be posted to the customer's account within 30 days of receipt of the report. The credit shall be calculated by multiplying the number of access minutes of use, for which a credit is determined to be applicable, times the difference between the terminating and originating Carrier Common Line charges in effect when the calls were completed.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.8 Rate Regulations (Cont'd)

3.8.5 Determination of Premium and Non-Premium Charges (Cont'd)

(F) The originating Premium Access or Non-Premium Access, per minute charge(s) apply to:

- all originating access minutes of use;
- less those originating access minutes of use associated with FGA Access Services where the off-hook supervisory signaling is forwarded by the customer's equipment when the called party answers;
- less all originating access minutes of use associated with calls placed to 700, 800/888 and 900 numbers;
- less those originating access minutes of use associated with Mobile Telephone Switching Offices (MTSOs).
- plus all originating access minutes of use associated with calls placed to 700, 800/888 and 900 numbers for which the customer furnishes for each month a report of either the number of calls or minutes or a report of the percent of calls or minutes that terminate in a Switched Access Service that is assessed Carrier Common Line charges, and for which a corresponding reduction in the number of terminating access minutes of use has been made as set forth in (E) preceding.

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.9 Transitional Interexchange Carrier Access Charge (ICAC)

Transitional ICAC represents revenues for certain Telephone Companies calculated pursuant to Texas PUC SUBST. RULE 23.23. All LECs must bill this transitional ICAC rate, however only those LECs that qualify per Texas PUC SUBST. RULE 23.23 will receive these revenues via a pooling mechanism.

For originating and terminating premium or non-premium Switched Access Services, the minutes of use will be multiplied by the appropriate rate found in Section 17.2.1 to develop the Transitional ICAC billed revenue amount.

The Transitional ICAC rate will not be billed for any switched access service minutes of use after February 28, 1995.

ACCESS SERVICE

5. Access Ordering

5.1 General

. This section sets forth the regulations and order related charges for services set forth in other sections of this tariff. Order related charges are in addition to other applicable charges for the services provided.

. An Access Order is an order to provide the customer with Switched and Special Access or Access Related Service or to provide changes to existing services.

. The regulations, rates and charges for special construction are set forth in Section 16, and are in addition to the regulations, rates and charges specified in this section. A customer may order any number of services of the same type and between the same premises on a single Access Order. All details for services for a particular order must be identical except for those for multipoint service.

. The customer shall provide to the Telephone Company the order information required in Section 5.2 following, and in addition the customer must also provide:

. - Customer name and premises address(es).

. - Billing name and address (when different from customer name and address).

. - Customer contact name(s) and telephone number(s) for the following provisioning activities: order negotiation, order confirmation, interactive design, installation and billing.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.1 General (Cont'd)

. 5.1.1 Service Installation

. The Telephone Company will provide the Access Service in accordance with the customer's requested service date, subject to the constraints established by the Telephone Company schedule of applicable service dates.

. The Telephone Company shall make available to all customers, upon request, a schedule of applicable service intervals for Switched and Special Access Services. The schedule shall specify the applicable service interval for services and the quantities of services that can be provided by a requested service date. Any associated material will be provided upon request and within a reasonable period of time.

. The Telephone Company will not accept orders for service dates which exceed the applicable service date by more than six months.

. Access Services will be installed during Telephone Company business days. If a customer requests that installation be done outside of scheduled work hours, and the Telephone Company agrees to this request, the customer will be subject to applicable Additional Labor Charges as set forth in Section 17.5.2 following.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.1 General (Cont'd)

. **5.1.2 Expedited Orders**

. When placing an Access Order, a customer may request a service date that is prior to the applicable service date. Additionally, a customer may also request an earlier service date on a pending Access Order. In this case, an access order modification as set forth in Section 5.4.3(A) following would be required. If the Telephone Company determines that the service can be provided on the requested date and that additional labor cost or extraordinary costs are required to meet the requested service date, the customer will be notified and will be provided with an estimate of the additional charges involved. Charges will be billed at actual cost, not to exceed 10 percent over estimated charges. Such additional charges will be determined and billed to the customer as explained following.

. To calculate the additional labor charges, the Telephone Company will, upon authorization from the customer to incur the additional labor charges, keep track of the additional labor hours used to meet the request of the customer and will bill the customer at the applicable Additional Labor charges as set forth in Section 17.5.2 following.

. To develop, determine and bill the customer the extraordinary costs which may be involved, the Special Construction terms and conditions as set forth in Section 16, will be used by the Telephone Company. Authorization to incur the costs and to bill the customer will be in accordance with the terms and conditions of Section 16.

. When the request for expediting occurs subsequent to the issuance of the Access Order, a Service Date Change Charge as set forth in Section 17.1.4 following also applies.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.1 General (Cont'd)

. 5.1.3 Selection of Facilities for Access Orders

. The option to request a specific transmission path or channel is not provided except for High Capacity Facilities Special Access, or as provided for under Special Facilities Routing as set forth in Section 11 following.

. When there are High Capacity facilities to a hub on order or in service for the customer's use, the customer may request a specific channel or transmission path be used to provide the Switched or Special Access Service requested in an Access Order. The Telephone Company will make a reasonable effort to accommodate the customer request.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. **5.2 Ordering Requirements**

. **5.2.1 Switched Access Service**

. (A) Feature Group A

. Orders for Feature Group A Switched Access Service shall be in lines.

. When placing an order for Feature Group A Switched Access Service, the customer shall provide the following information in addition to that set forth in Section 5.1 preceding:

. - The number of lines and the first point of switching (i.e., Dial Tone Office)

. - Optional Features

. - Whether the Off-hook Supervisory Signaling is provided by the customer's equipment before the called party answers, or is forwarded by the customer's equipment when the called party answers

. - Lines to be provided as single lines

. - Lines to be arranged in multiline hunt group arrangements

. - Directionality (1-way, 2-way, etc.)

. - A projected percentage of interstate use (PIU) as set forth in Section 2.3.11 preceding

. - The Interexchange Carrier to which the service is connected or, in the alternative, specify the means by which the FGA access communications are transported to another state.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.2 Ordering Requirements (Cont'd)

. **5.2.1 Switched Access Service (Cont'd)**

. (B) Feature Group B

. Orders for Feature Group B Switched Access Service shall be in trunks.

. When placing an order for Feature Group B Service, the customer shall provide, the following information in addition to that set forth in Section 5.1 preceding:

. - The number of trunks

. - The end office, except when FGB is provided through a centralized equal access arrangement, when direct routing is desired

. - The access tandem office when tandem routing is desired

. - Optional Features

. - Trunks to be Provided as single trunks

. - Trunks to be arranged in trunk group arrangements

. - Directionality (1-way, 2-way, etc.)

. - A projected Percentage of Interstate Use (PIU) as set forth in Section 2.3.11 preceding

. - The Interexchange Carrier to which the service is connected or, in the alternative, specify the means by which the FGB access communications are transported to another state.

. - The access code dialing arrangement (i.e., a uniform access code of 950-1XXX or 950-0XXX

. - For Feature Group B switched access service to a Mobile Telephone Switching Office (MTSO) directly interconnected to a Telephone Company access tandem office, the customer shall provide information to the Telephone Company indicating the NXX code(s) to be accessed.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.2 Ordering Requirements (Cont'd)

. **5.2.1 Switched Access Service (Cont'd)**

. (C) Feature Group C, Feature Group D and Interim NXX Translation

When placing an order for Feature Group C and D Switched Access Service, the customer shall provide:

. - The number of BHMC from the customer designated premises to the end office or Operator Transfer Service location by Feature Group and by type of BHMC, or

. - For customers other than providers of MTS/WATS, the number of trunks desired between customer designated premises and an entry switch or Operator Transfer Service location.

. - Optional Features

. - Interim NXX Translation options

. - Operator Transfer Service Location

. - A projected Percentage of Interstate Use (PIU) as set forth in Section 2.3.11 preceding.

. - For Feature Group D switched access service to a Mobile Telephone Switching Office (MTSO) directly interconnected to a Telephone Company access tandem office, the customer shall provide information to the Telephone Company indicating the NXX code(s) to be accessed.

. When BHMC information is provided it is used to determine the number of transmission paths as set forth in Section 6.2.5 following.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.2 Ordering Requirements (Cont'd)

. **5.2.1 Switched Access Service (Cont'd)**

. (C) Feature Group C, Feature Group D and Interim NXX Translation (cont'd)

. The BHMC may be determined by the customer in the following manner. For each day (8 am to 11 pm, Monday through Friday, excluding national holidays), the customer shall determine the highest number of minutes of use for a single hour (e.g., 55 minutes in the 10-11 AM hour). The customer shall, for the same hour period (i.e., busy hour) for each of twenty consecutive business days, pick the twenty consecutive business days in a calendar year which add up to the largest number of minutes of use. Both originating and terminating minutes shall be included. The customer shall then determine the average busy hour minutes of capacity (i.e., BHMC) by dividing the largest number of minutes of use figure for the same hour period for the consecutive twenty business day period by 20. This computation shall be performed for each end office the customer wishes to serve. These determination thus establish the forecasted BHMC for each end office.

.

. Customers other than MTS/WATS providers may, at their option, order FGD by specifying the number of trunks desired between customer designated premises and an end office or access tandem or operator services location. When ordering by trunk quantities rather than BHMC quantities to an access tandem, the customer must also provide the Telephone Company an estimate of the amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Telephone Company in its own efforts to project further facility requirements.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.2 Ordering Requirements (Cont'd)

. **5.2.1 Switched Access Service (Cont'd)**

. (C) Feature Group C, Feature Group D and Interim NXX Translation (cont'd)

. When Feature Group C or D is ordered with the Interim NXX Translation optional feature, the customer shall specify the Service Access Code(s) (e.g., 900) and their associated NXX code(s) to be translated within the entire LATA or Market Area. The initial and subsequent orders to add, change, or delete Interim NXX Translation codes shall be placed separately or in combination with orders to change Feature Group C or D Switched Access BHMC or trunks. Customer assigned NXX codes which have not been ordered will be blocked.

. Orders for the Interim NXX Translation optional feature shall not be required until such time as a customer other than an MTS/WATS provider requests Interim NXX Translation of Service Access Codes. Upon receipt of such order, the Telephone Company shall notify the MTS/WATS provider of the activation of the Interim NXX Translation Service for the Service Access Code. Following such initial activation, all customers are required to place orders for Interim NXX Translation of the Service Access Code and the Interim NXX Translation charge for the Service Access Code, as set forth in Section 17.2.2.

. For Feature Group D Switched Access Service with the SS7 ordering option, the customer shall specify, in addition to information required previously in this section, a reference to existing signaling connections or to a related SS7 signaling connection. The customer must also provide any SS7 Local Switching Optional Features. When ordering trunks with SS7 signaling, the customer shall provide STP point codes and location identifier codes, circuit identification codes and switch type and shall specify the level of diversity in its network as defined in Technical Reference TR-TSV-000905.

. For Feature Group D service ordered with the SS7 ordering option, the Telephone Company shall work cooperatively with the Customer to determine the number of SS7 signaling connections required to handle its traffic.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.2 Ordering Requirements (Cont'd)

. **5.2.1 Switched Access Service (Cont'd)**

. (D) Reserved

. (E) SS7 Optional Feature

. For 800/888 Data Base Access Service, as described in 6.1.3 (A) & (C) following, the customer must order FGC or FGD to those access tandems or end offices designated as Service Switching Points (SSP) for 800/888 Data base service. Direct trunk routes can only be provided from end offices equipped to query centralized data bases. All traffic originating from end offices not equipped to provide SS7 signaling and routing require routing via an access tandem where SSP functionality is available.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.2 Ordering Requirements (Cont'd)

. 5.2.2 Special Access Service

. When placing an order for Special Access Service the customer must specify:

. - the customer designated premises or hubs involved

. - type of service (e.g., Voice Grade, High Capacity, etc.)

. - the channel interface(s)

. - technical specification package

. - options desired

. - for multipoint services, the channel interface at each customer designated premises may, at the request of the customer, be different but all such interfaces shall be compatible.

. - that the traffic consists of less than ten percent interstate traffic

. All part-time Video and Program Audio services are subject to a service inquiry. A service inquiry is a request to the Telephone Company to determine if facilities exist to provide the service ordered and to determine the service date on which service can be provided to the customer.

. Where the Special Access Service is exempt from the Special Access Surcharge, as set forth in Section 7.4.2 following the customer shall furnish written certification to that effect as set forth in Section 7.4.2(c) following.

. When ordering bridging and/or multiplexing, the Customer must specify the telephone company hub(s) from which they desire service. The Customer must specify only those hubs that provide the type of service ordered and interconnect with the wire center(s) from which the customer requires service. The Wire Center section of NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 identifies hub types (e.g., Digital Data, High Capacity Multiplexing, etc.) and hub levels (i.e., Hub, Terminus Hub, Intermediate Hub and Super-Intermediate Hub). Additionally, the Subtending section of Tariff F.C.C. No. 4 identifies wire centers and the Intermediate and/or Super-Intermediate Hubs with which they interconnect.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.2 Ordering Requirements (Cont'd)

. 5.2.3 WATS or WATS-Type Services

. Special Access Service may be ordered for connection with FGA, FGB, FGC or FGD Switched Access Service at Telephone Company designated WATS Serving Offices (WSOs) for the provision of WATS or WATS-type Services and may be ordered separately by a customer other than the customer which orders the FGA, FGB, FGC or FGD Switched Access Service. For the Special Access Service the customer shall specify:

. - the customer designated premises at which the Special Access service terminates

. - the type of line (i.e., two-wire or four-wire)

. - the type of calling (i.e., originating, terminating or two-way)

. - type of Supervisory Signaling.

. When the optional screening, switching and/or recording functions are not provided at the customer serving wire center, channel mileage must be ordered between that wire center and the nearest WSO where the screening, switching and/or recording functions can be provided.

. 5.2.4 Mixed Use Facilities - Switched and Special Access

. Mixed use is the provision of both Switched and Special Access Services over the same High Capacity facilities. Mixed use facilities to a hub will be ordered and provided as Special Access Service. Where mixed use is employed, individual services utilizing these facilities must be ordered either as Switched Access Service or Special Access Service as further elaborated and set forth in Section 6.4.7 and Section 7.4.8 following. When placing the order for the individual service(s), the customer must specify a channel assignment for each service ordered.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.2 Ordering Requirements (Cont'd)

. 5.2.5 Miscellaneous Services

. Testing Service as set forth in Section 17.5.7, Additional Labor as set forth in Section 17.5.2, Telecommunication Service Priority and Special Facilities Routing shall be ordered with an Access Order or may subsequently be added to a pending order at any time up to and including the service date for the access service. When miscellaneous services are added to a pending order a service date change may be required. When a service date change is required, the service date change charge as set forth in Section 17.1.4 following will apply. When miscellaneous services are added to a pending order, charges for a design change as set forth in Section 17.1.5 following will apply when an engineering review is required. If both a service date change and an engineering review are required, both the Service Date Change Charge and the Design Change Charge will apply as set forth in Section 5.4.3(B) following.

. The rates and charges for these services, as set forth in Section 17.5 of this tariff, will apply in addition to the ordering charges set forth in Section 17.1 and the rates and charges for the Access Service with which they are associated. Additional Engineering is not an ordering option, but will be applied to an Access Order when the Telephone Company determines that Additional Engineering is necessary to accommodate a customer request. Additional Engineering will only be required as set forth in Section 13.1 following. When it is required, the customer will be so notified and will be furnished with a written statement setting forth the justification for the Additional Engineering as well as an estimate of the charges. If the customer agrees to the Additional Engineering, a firm order will be established. If the customer does not want the service or facilities after being notified that Additional Engineering of Telephone Company facilities is required, the order will be withdrawn and no charges will apply. Once a firm order has been established, the total charge to the customer for the Additional Engineering may not exceed the estimated amount by more than 10%.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. **5.3 Access Orders For Services Provided By More Than One Telephone Company**

. Access Services provided by more than one Telephone Company are services where one end of the Local Transport or Channel Mileage element is in the operating territory of one Telephone Company and the other end of the element is in the operating territory of a different Telephone Company or where the Interim NXX Translation service and the end office are not provided by the same Telephone Company.

. The ordering procedure for this service is dependent upon the billing arrangement, as set forth in Section 2.4.7 preceding, to be used by the Telephone Companies involved in providing the Access Service. The Telephone Company will notify the customers which of the ordering procedures will apply.

. **5.3.1 Non Meet Point Billing Ordering FGA**

. (A) Single Company Billing Ordering

. The Telephone Company receiving the order from the customer will arrange to provide the service and bill the customer as set forth in Section 2.4.7(A)(1). The customer will place the order with the Telephone Company as follows:

. For FGA Switched Access Services the customer will place the order with the Telephone Company in whose territory the first point of switching is located. The first point of switching is the dial tone office

. When the first point of switching is not in the same Telephone Company's territory as the Interexchange Carrier premises, the customer must supply a copy of the order to the Telephone Company in whose territory the Interexchange Carrier Premises is located and any other Telephone company(s) involved in providing the service. When service is provided through a centralized equal access provider, the customer must supply a copy of the order to that provider.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

. 5.3.2 Meet Point Billing Ordering

. Each Telephone Company will provide its portion of the Access Service within its operating territory to an interconnection point(s) with the other Telephone Company(s). Billing Percentages will be determined by the Telephone Companies involved in providing the Access Service and listed in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4. Each Telephone Company will bill the customer for its portion of the service as set forth in Section 2.4.7(A)(2). All other appropriate changes in each Telephone Company tariff are applicable.

. For the service(s) ordered as set forth following, the customer must also supply a copy of the order to the Telephone Company in whose operating territory a customer designated premises is located and any other Telephone Company(s) involved in providing the service. Additionally, when service is provided through a centralized equal access provider, the customer must supply a copy of the order to that provider.

. (A) For Feature Group B Switched Access Services, the customer must place an order with the Telephone Company in whose territory the first point of switching is located, (i.e., FGB - access tandem or end office). The Telephone Company will designate the first point(s) of switching for FGB Services where the Telephone Company elects to provide equal access through a centralized equal access arrangement. Those Telephone Company offices providing equal access through centralized arrangements are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

. (B) For Feature Group C and D Switched Access Services, the customer must place an order with the Telephone Company in whose territory the end office is located. Customers other than MTS/WATS providers may, at their option, order FGD to the access tandem. When ordered to the access tandem, and the access tandem and the end office are not in the same Telephone Company operating territory, the customer must also supply a copy of the order to each additional Telephone Company subtending the access tandem.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

. 5.3.2 Meet Point Billing Ordering (Cont'd)

. (C) Customers ordering Special Access Service to be interconnected with Switched Access Services at Telephone Company designated WATS Serving Offices for the provision of WATS or WATS-type Services must place an order with each Telephone Company in whose territory the end office and the WATS Serving Office are located, if they are not collocated.

. (D) Except for Special Access Service as set forth in (C) above or as set forth in (E) below, the customer may place the order for a Special Access Service with either Exchange Telephone Company.

. (E) For Special Access Service involving a hub(s) the customer must place the order with the Telephone Company(s) in whose territory the hub(s) is located.

. (F) For Directory Assistance Service, the customer must place an order with the Telephone Company in whose territory the Directory Assistance Location is located.

. (G) For initiation, additions, changes or deletions to the Interim NXX Translation code(s), the customer must place an order with the Telephone Company who provides the Interim NXX Translation. The customer must also provide a copy of the order to the Telephone Companies subtending the Interim NXX Translation office.

. 5.4 Charges Associated with Access Ordering

. 5.4.1 Reserved for Future Use

. 5.4.2 Reserved for Future Use

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.4 Charges Associated with Access Ordering (Cont'd)

. 5.4.3 Access Order Change Charges

. Access Order changes involve service date changes and design changes. The customer may request a change of its Access Order prior to the service date. The Telephone Company will make every effort to accommodate a requested change when it is able to do so with the normal work force assigned to complete such an order within normal business hours. If the change cannot be made with the normal work force during normal business hours, the Telephone Company will notify the customer. If the customer still desires the Access Order change, the Telephone Company will schedule a new service date as set forth in Section 5.1.2 preceding. All charges for Access Order change as set forth in Section 17.1 will apply on a per occurrence basis.

. Any increase in the number of Special Access Service channels or Switched Access Service lines, trunks or busy hour minutes of capacity will be treated as a new Access Order (for the increased amount only).

If order changes are necessary to satisfy the transmission performance for a Special Access Service ordered by a customer, these changes will be made without order change charges being incurred by the customer.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.4 Charges Associated with Access Ordering (Cont'd)

5.4.3 Access Order Change Charges (Cont'd)

(A) Service Date Change

The customer may request a change of service date on a pending Access Order prior to the service date. A change of service date is a change of the scheduled service date by the customer to either an earlier date or a later date which does not exceed 30 calendar days from the original service date.

If the Telephone Company determines that the customer's request can be accommodated without delaying the service dates for orders of other customers, the service date will be changed and the Service Date Change Charge, as set forth in Section 17.1.4 following, will be applied to the order.

If the service date is changed to an earlier date, and the Telephone Company determines additional labor or extraordinary costs are necessary to meet the earlier service date requested by the customer, the customer will be notified by the Telephone Company that Expedited Order Charges as set forth in Section 5.1.2 preceding apply. Such charges will apply in addition to the Service Date Change Charge.

If the requested service date exceeds 30 calendar days following the original service date, and the Telephone Company determines that the customer's request can be accommodated, the Telephone Company will cancel the original order and apply the Cancellation Charges as set forth in Section 5.6.3 following. A new Access Order with a new service date will be issued. The Service Date Change Charge will not apply, however, the Access Order Charge will apply to the new order.

If the service date is changed due to a design change as set forth in (B) following, the Service Date Change Charge will apply.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.4 Charges Associated with Access Ordering (Cont'd)

. 5.4.3 Access Order Change Charges (Cont'd)

. (B) Design Change

. The customer may request a design change to the service ordered prior to the requested service date. A design change is any change to an Access Order which requires engineering review. An engineering review is a review by Telephone Company personnel, of the service ordered and the requested changes to determine what changes in the design, if any, are necessary to meet the changes requested by the customer. Design changes include such things as the addition or deletion of optional features or functions or a change in the type of Transport Termination (Switched Access only), type of channel interface, type of Interface Group or technical specification package. Design changes do not include a change of customer designated premises, first point of switching, Feature Group type or Special Access Service channel type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

. The Telephone Company will review the requested change, notify the customer whether the change is a design change, if the change can be accommodated and if a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge as set forth in Section 17.1.5 following will apply in addition to the charge for Additional Engineering as set forth in Section 17.5.1 following. If a change of service date is required, the Service Date Change Charge as set forth in Section 17.1.4 following will also apply.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. **5.5 Minimum Periods and Cancellations**

. **5.5.1 Minimum Periods**

. The minimum period for part-time Video and Program Audio Special Access Services is one day even though the service will be provided only for the duration of the event specified on the order (e.g., one-half hour, two hours, five hours, etc.).

. The minimum period for which Directory Assistance Service and the Directory Access Service is provided and for which charges apply is six months. A minimum period of six months applies for each additional period of service ordered or extended.

. The minimum period for which all other Access Service is provided and for which charges are applicable, is one month. (C)

. **5.5.2 Development of Minimum Period Charges**

. When Access Service is disconnected after commencement of service but prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period. A disconnect constitutes facilities being returned to available inventory.

. The Minimum Period Charge for monthly billed services will be determined as follows:

. (A) For Switched Access Service, the charge for a month or fraction thereof is equal to the applicable recurring charges plus any nonrecurring and/or special construction charge(s) that may be due.

. (B) For Special Access Service, the charge for a month or fraction thereof is the applicable monthly rates for the appropriate channel type plus any optional features, nonrecurring and/or special construction charge(s) that may apply.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.5 Minimum Period and Cancellations (Cont'd)

. 5.5.2 Development of Minimum Period Charges (Cont'd)

. The Minimum Period Charge for part-time Video and Program Audio Services is the applicable daily rate for the appropriate channel type as set forth in Section 7.4.3 following.

. The Minimum Period Charge for Directory Access Service is developed as set forth in Section 9.4.2 following.

. 5.5.3 Cancellation of an Access Order

. (A) A customer may cancel an Access Order for the installation of service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the order is to be canceled. The verbal notice must be followed by written confirmation within 10 days. If a customer or a customer's end user is unable to accept Access Service within 30 calendar days after the original service date, the customer has the choice of the following options:

. - The Access Order shall be canceled and no charges will apply.

. - Billing for the service will commence.

. In such instances, the cancellation date or the billing date, depending on which option is selected by the customer, shall be the 31st day beyond the original service date of the Access Order.

ACCESS SERVICE

5. Access Ordering (Cont'd)

. 5.5 Minimum Period and Cancellations (Cont'd)

. 5.5.3 Cancellation of an Access Order (Cont'd)

. (B) When a customer cancels an order for the discontinuance of service, no charges apply for the cancellation.

. (C) If the Telephone Company misses a service date by more than 30 days and such delay is not requested or caused by the customer (excluding those circumstances where the date is missed due to acts of God, governmental requirements, work stoppages and civil commotions), the customer may cancel the Access Order without incurring cancellation charges.

ACCESS SERVICE

6. Switched Access Service

6.1 General

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a two-point communications path between a customer designated premises and an end user's premises. It provides for the use of common terminating, switching, and trunking facilities and for the use of common subscriber plant of the Telephone Company. Switched Access Service provides for the ability to originate calls from an end user's premises to a customer designated premises, and to terminate calls from a customer designated premises to an end user's premises in the LATA where it is provided. Specific references to material describing the elements of Switched Access Service are provided in Section 6.1.3 and Section 6.5 through Section 6.9 following.

Rates and charges for Switched Access Service depend generally on the specific Feature Group ordered by the customers, for MTS or WATS services or MTS/WATS equivalent service, and whether it is provided in a Telephone Company end office that is equipped to provide equal or non equal access. Rates and charges for Switched Access Service are set forth in Section 17.2 following. The application of rates for Switched Access Service is described in Section 6.4 following. Rates and charges for services other than Switched Access Service, e.g., a customer's interLATA toll message service, may also be applicable when Switched Access Service is used in conjunction with these other services. Descriptions of such applicability are provided in Section 6.4.5, Section 6.4.9, Section 6.5.1(H), Section 6.5.3, Section 6.6.1(G), Section 6.6.2(D), Section 6.7.1(F) and Section 6.8.1(E) following. Finally, a credit is applied against line side Switched Access Service charges as described in Section 6.4.8 following.

When Feature Group D is ordered with the SS7 option, network compatibility and other operational tests will be performed cooperatively by the Telephone Company with the Customer at locations, dates and times as specified by the Telephone Company in consultation with the Customer. These tests are as specified in Technical Publication TR-TSV-000905. Successful completion is necessary to receive the SS7 option. To protect the security of the SS7 network, certain information provided by the Telephone Company (ie: point codes) to the Customer will be subject to a nondisclosure agreement.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Description and Provision of Switched Access Service Arrangements

(A) Description

Switched Access Service is provided in four different Feature Group arrangements which are service categories of standard and optional features. These are differentiated by their technical characteristics, e.g., line side vs. trunk side connection at the Telephone Company first point of switching. They are also differentiated by optional feature availability and the manner in which the end user accesses them in originating calling, e.g., with or without access codes of various lengths and digits.

The provision of each Feature Group requires Local Transport facilities and the appropriate End Office functions. In addition, Special Access Service may, at the option of the customer, be connected with feature Groups A, B, C, or D at Telephone Company designated WATS Serving Offices.

There are three specific transmission specifications (i.e., Types A, B and C) that have been identified for the provision of Feature Groups. The specifications provided are dependent on the Interface Group and the routing of the service, i.e., whether the service is routed directly to the end office or via an access tandem. The parameters for the transmission specifications are set forth in 15.1.2 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)

(A) Description (Cont'd)

Feature Groups are arranged for either originating, terminating or two-way calling, based on the customer end office switching capacity ordered. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the customer designated premises. Terminating calling permits the delivery of calls from the customer designated premises to Telephone Exchange Service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. The Telephone Company will determine the type of calling to be provided unless the customer requests that a different type of directional calling is to be provided. In such cases, the Telephone Company will work cooperatively with the customer to determine the directionality. There are various optional features associated with Local Transport, Common Switching and Transport Termination available with the feature Groups. In addition, the Interim NXX Translation optional feature is available with Feature Group C and Feature Group D.

Detailed descriptions of each of the available Feature Groups are set forth in Section 6.5 through Section 6.9 following. Each Feature Group is described in terms of its specific physical characteristics and calling capabilities, the optional features available for use with it and the standard testing capabilities.

The Common Switching and Transport Termination optional features, which are described in Section 6.10 following, unless specifically stated otherwise, are available at all Telephone Company end office switches.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)

(B) Manner of Provision

Switched Access is furnished in either quantities of lines or trunks, or in busy hour minutes of capacity (BHMCs). FGA Access and FGB Access are furnished on a per-line or per-trunk basis respectively. FGC Access and FGD Access are furnished on a BHMC basis. FGD may also be provided to customers other than MTS/WATS providers on a per trunk basis as set forth in Section 5.2 preceding.

BHMCs are differentiated by type and directionality of traffic carried over a Switched Access Service arrangement. Differentiation of traffic among BHMC types is necessary for the Telephone Company to properly design Switched Access Service to meet the traffic carrying capacity requirement of the customer.

There are three major BHMC categories identified as: Originating, Terminating and Directory Assistance. Originating BHMCs represent access capacity within a LATA for carrying traffic from the end user to the customer; Terminating BHMCs represent access capacity within a LATA for carrying traffic from the customer to the end user; and, Directory Assistance BHMCs represent access capacity within a LATA for carrying Directory Assistance traffic from the customer to a Directory Assistance location. When ordering capacity for FGC Access or FGD Access in BHMCs, the customer must at a minimum specify such access capacity in terms of Originating BHMCs and/or Terminating BHMCs. Directory Assistance BHMCs are used for ordering Directory Assistance Access Service as set forth in Section 9 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)

(B) Manner of Provision (Cont'd)

Because some customers will wish to further segregate their originating traffic into separate trunk groups, or because segregation may be required by network considerations originating BHMCs are further categorized into Domestic, 800/888/877, 900, Operator, IDDD and Operator Transfer Services. Domestic BHMCs represent access capacity for carrying only domestic traffic other than 800/888/877, 900, Operator and Operator Transfer Services traffic; IDDD BHMCs represent access capacity for carrying only international traffic; and, 700, 800/888/877, 900, Operator and Operator Transfer Services BHMCs represent access capacity for carrying, respectively, only 700, 800/888/877, 900,Operator or Operator Transfer Services traffic. When ordering such types of access capacity, the customer must specify Domestic, 700, 800/888/877, 900, Operator, IDDD or Operator Transfer Services BHMCs.

An SS7 signaling connection local transport optional feature as described in 6.1.3(A)(2) following is provided in conjunction with Feature Group D Switched Access Service equipped with the SS7 ordering option. An SS7 signaling connection provides the interconnection between the Signal Transfer Point (STP) pair and the Customers Signaling Point of Interface (SPOI).

6.1.2 Ordering Options and Conditions

Switched Access Service is ordered under the Access Order provisions set forth in Section 5.2 preceding. Also, included in that section are regulations concerning miscellaneous service order charges which may be associated with Switched Access Service ordering (e.g., Service Date Changes, Cancellations, etc.).

6.1.3 Rate Categories

There are three rate categories which apply to Switched Access Service:

- Local Transport (described in Section 6.1.3(A) following)
- End Office (described in Section 6.1.3(B) following)
- Common Line (described in Section 3 preceding

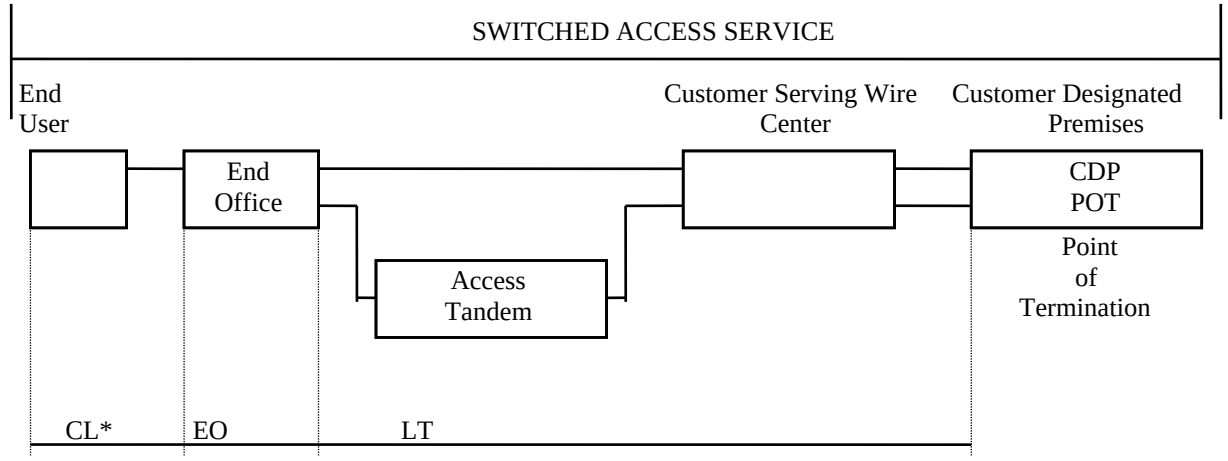
ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

The following diagram depicts a generic view of the components of Switched Access Service and the manner in which the components are combined to provide a complete access service.



CL - Common Line
EO - End Office
LT - Local Transport

* Common Line Access Service is provided under Section 3 preceding.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport

The Local Transport rate category establishes the charges related to the transmission and tandem switching facilities between the customer designated premises and the end office switch(es) where the customer's traffic is switched to originate or terminate the customer's communications. For purposes of determining Local Transport Facility measurement, distance will be measured from the wire center that normally serves the customer designated premises to the end office switch(es), which may be a Remote Switching Module(s). Exceptions to the Local Transport Facility measurement rules are set forth in Section 6.4.6 following and in this section.

Local Transport is a two-way voice frequency transmission path composed of facilities determined by the Telephone Company. The two-way voice frequency transmission path permits the transport of calls in the originating direction (from the end user end office switch to the customer designated premises) and in the terminating direction (from the customer designated premises to the end office switch), but not simultaneously. The voice frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The Telephone Company will work cooperatively with the customer in determining (1) whether the service is to be directly routed to an end office switch or through an access tandem switch, and (2) the directionality of the service. Unless otherwise ordered by the F.C.C., where the Telephone Company elects to provide equal access through a centralized equal access arrangement, the Telephone Company will designate the serving wire center. The designated SWC will normally be that wire center which provides dial tone to the telephone company centralized Equal Access tandem office identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4. When service is provided in cooperation with a non telephone company provider of centralized Equal Access, the SWC will be that wire center which

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

would normally provide dial tone to the telephone company point of interconnection with the non telephone company provider of centralized Equal Access specified in the tariff of the centralized Equal Access provider. Those telephone company offices providing equal access through centralized arrangements are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

Local Transport rates are made-up of a Local Transport Termination rate which is assessed on a per transmission path per access minute basis, and a Local Transport Facility rate assessed on a per mile per access minute basis. The Local Transport Termination rate provides for the communications frequency transmission path at the Telephone Company switching office and includes the Local Transport portion of Central Office Switching and Central Office Circuit equipment (e.g., signaling, transmission devices, padding, carrier channels, etc.).

The Local Transport Termination rate is applied as follows:

- for FGA when the Local Transport Facility is measured between the end office and the IC serving wire center, the Local Transport Termination rate is applied at the end office.

- for FGA when the Local Transport Facility is measured between the first point of switching (i.e., dial tone office) and the IC serving wire center as set forth in Section 6.4.6(C) following, the Local Transport Termination Rate is applied at the first point of switching (i.e., dial tone office).

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

The Local Transport Termination rate is applied as follows: (continued)

- for FGB, FGC and FGD, when the Local Transport Facility is measured between the end office and the IC serving wire center, the Local Transport Termination Rate is applied at the end office.

- for FGB and FGD, when the Local Transport Facility is measured between the access tandem and the IC serving wire center as set forth in Section 6.4.6(C) following, the Local Transport Termination Rate is applied at the access tandem.

- For Feature Groups A, B, C and D Switch Service connected with Special Access Service at a WATS Serving Office when the Local Transport Facility is measured between the WATS Serving Office (when measured access minutes of use are used) and the serving wire center for the customer designated premises as, set forth in Section 6.4.6(F) following, the Local Transport Termination is applied at the WATS Serving Office.

- For Feature Group A Switched Access Service connected with Special Access Service at a WATS Serving Office when the Local Transport Facility is measured between the Feature Group A or Feature Group A entry switch (when assumed access minutes of use are used) and the serving wire center for the customer designated premises, as set forth in 6.4.6(F) following, the Local Transport Termination is applied at the Feature Group A or Feature Group B entry switch.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

The Local Transport Termination rate will also apply if the IC serving wire center and the end user serving wire center are collocated. The Local Transport Termination rate will apply once to each Switched Access Service. The Local Transport Facility rate provides for the frequency transmission path and for that portion of Local Transport which extends beyond the Telephone Company end office and includes both the physical (or derived) outside plant facilities and necessary transmission equipment (repeaters, etc.) including that which may be found at intermediate offices. The Local Transport Facility rate will not apply if the IC serving wire center and the end user serving wire center are collocated.

Notwithstanding the preceding paragraph, when more than one Telephone Company is involved in providing the Switched Access Service, the Local Transport rates are applied as set forth in Section 2.4.7 preceding.

Local Transport is provided at the rates and charges set forth in Section 17.2.2 following.

The application of these rates with respect to individual Feature Groups is as set forth in Section 6.4.1(C) following.

Transport Termination functions provide for the line or trunk side arrangements which terminate the Local Transport facilities. Included as part of these functions are various nonchargeable optional termination arrangements. These optional terminating arrangements are described in Section 6.10.2 following.

The number of Transport Terminations will be determined by the Telephone Company as set forth in Section 6.2.5 following.

When the Customer has ordered Feature Group D with the SS7 ordering option as set forth in 6.1.3(A)(2) following, the Telephone Company will provide SS7 in accordance with the technical specifications as set forth in Technical Reference TR-TSV-000905.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups

Ten Interface Groups are provided for terminating the Local Transport at the customer's designated premises. Technical specifications concerning the available interface groups are set forth in Section 15.1 following.

(2) Nonchargeable Optional Features

(a) Where transmission facilities permit, the individual transmission path between the customer's designated premises and the first point of switching may at the option of the customer be provided with the following optional features as set forth and described in Section 15.1.1(E) following.

- Supervisory Signaling
- Customer Specified Entry Switch Receive Level
- Customer Specification of Local Transport Termination

(b) Signaling System 7 (SS7)

This ordering option allows the customer to receive out-of-band signaling for call set up and is only available with Feature Group D Switched Access Service. This option requires the establishment of a signaling connection between the Customers Signaling Point of Interface (SPOI) and an SS7 Signal Transport Point (STP).

SS7 is provided in both the terminating and originating direction. Each signaling connection is provisioned for two-way transmission of SS7 signaling information.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(3) Chargeable Optional Features

800/888/877 Data Base Access Service is provided to all customers in conjunction with FGC and FGD switched access service. A Basic or Vertical Feature Query charge, as set forth in 17.2.2 following, is assessed for each completed query returned from the 800/888/877 data base whether or not the actual call is delivered to the customer. The query is considered completed when the appropriate call routing information is returned to the Service Switching Point (SSP) that launched the query. The Basic Query provides the identification of the customer to whom the call will be delivered and includes area of service routing which allows routing of 800/888/877 calls by telephone companies to different interexchange carriers based on the Local Access Transport Area (LATA) in which the call originates. The Vertical Feature Query provides this same customer identification function in addition to vertical features which may include: (1) call validation (ensuring that calls originate from subscribed service areas); (2) POTS translation of 800/888/877 numbers (which is generally necessary for the routing of 800/888/877 calls); (3) alternate POTS translation (which allows subscribers to vary the routing of 800/888/877 calls based on factors such as time of day, place of origination of the call, etc.); and (4) multiple carrier routing (which allows subscribers to route to different carriers based on factors similar to those in (3)).

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching

The Local Switching rate element establishes the charges related to the use of end office switching equipment, the terminations in the end office of end user lines, and the terminations of calls at Telephone Company Intercept Operators or recordings. The premium charge is divided into two distinct categories, i.e., Local Switching 1 and Local Switching 2. The first category, Local Switching 1, is applicable to Feature Groups A and B except for:

- Feature Group B when utilized to provide Feature Group MTS/WATS service,

- Feature Groups A and B used for terminating inward WATS and WATS-type service at an equal access WATS Serving Office, and

The second category, Local Switching 2, is applicable to:

- Feature Groups C and D,

- FGB when utilized to provide MTS/WATS service,

- Feature Groups A and B used for terminating inward WATS and WATS-type service at an equal access WATS Serving Office.

- FGB when routed over FGD facilities at an end office or access tandem.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

- Feature Groups A and B used for terminating inward WATS and WATS- type service at an equal access WATS Serving Office.

Local Switching does not apply to Feature Groups B and D Switched Access Services associated with Mobil Telephone Switching Offices (MTSO's) directly interconnected to a Telephone Company Access tandem office.

Where end offices are appropriately equipped, international dialing may be provided as a capability associated with Local Switching 2 which provides local dial switching for Feature Groups C and D. International dialing provides the capability of switching international calls with service prefix and address codes having more digits than are capable of being switched through a standard FGC or FGD equipped end office.

Rates for Local Switching 1 and Local Switching 2 are set forth in Section 17.2.3 following. The application of these rates with respect to individual Feature Groups is as set forth in Section 6.4.1(C) following.

There are 4 types of functions included in the Local Switching rate element; Common Switching, Transport Termination, Line Termination and Intercept. These are described in (a) through (d) following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

(a) Common Switching

Common Switching provides the local end office switching functions associated with the various access (i.e., Feature Group) switching arrangements. The Common Switching arrangements provided for the various Feature Group arrangements are described in Section 6.5 through Section 6.9 following.

Included as part of Common Switching are various nonchargeable optional features which the customer can order to meet the customer's specific communications requirements. These optional features are described in Section 6.10.1 following.

(b) Transport Termination

Transport Termination functions provide for the line or trunk side arrangements which terminate the Local Transport facilities. Included as part of these functions are various nonchargeable optional termination arrangements. These optional terminating arrangements are described in 6.10.2 following.

The number of Transport Terminations will be determined by the Telephone Company as set forth in 6.2.5 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

(c) Line Termination

Line Termination provides for the terminations of end user lines in the local end office. There are two types of Line Terminations, i.e., Common Line Terminations and Special Access Service Terminations utilized in the Provision of WATS or WATS-type services at Telephone Company designated WATS Serving Offices.

The above Special Access Service Terminations are differentiated by line side vs. trunk side terminations. In addition, there are various types of originating and terminating line side terminations depending on the type of signaling associated with the Special Access Service. Line side terminations are available with either dial Pulse or dual tone multi-frequency address signaling. See Section 7.2.4 for further reference.

(d) Intercept

The Intercept function provides for the termination of a call at a Telephone Company intercept operator or recording. The operator or recording tells a caller why a call, as dialed, could not be completed, and if possible, the correct number.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(C) End Office (Cont'd)

(1) 800/888/877 Data Base Access Service

800/888/877 Data Base Access Service is provided to all customers in conjunction with FGC and FGD switched access service. When a 1+800/888/877+NXX+XXXX call is originated by an end user, the Telephone Company will utilize the Signaling System 7 (SS7) network to query an 800/888/877 data base to identify the customer to whom the call will be delivered and provide vertical features where applicable based on the dialed ten digits. The call will then be routed to the identified customer over FGC or FGD switched access.

A Basic or Vertical Feature Query charge, as set forth in 17.2.2 following, is assessed for each completed query returned from the data base identifying the customer to whom the call will be delivered whether or not the actual call is delivered to the customer. The query is considered completed when the appropriate call routing information is returned to the Service Switching Point (SSP) that launched the query. The Basic Query provides the identification of the customer to whom the call will be delivered and includes area of service routing which allows routing of 800/888/877 calls by telephone companies to different interexchange carriers based on the Local Access Transport Area (LATA) in which the call originates. The Vertical Feature Query provides the same customer identification as the basic query and vertical features which may include: (1) call validation, (ensuring that calls originate from subscribed service areas); (2) POTS translation (which allows subscribers to vary the routing of 800/888/877 calls based on factors such as time of day, place or origination of the call, etc.); and (3) multiple carrier routing (which allows subscribers to route to different carriers based on factors similar to those in (2)).

The description and application of this charge with respect to Feature Group C or Feature Group D is as set forth in 6.4.1(C)(5) and 6.4.1(C) following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.4 Special Facilities Routing

Any customer may request that the facilities used to provide Switched Access Service be specially routed. The regulations for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in Section 11 following.

6.1.5 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the makeup of the facilities and services provided from the customer's premises to the first point of switching. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company

In addition to the obligations of the Telephone Company set forth in Section 2 preceding, the Telephone Company has certain other obligations concerning only the provision of Switched Access Service. These obligations are as follows:

6.2.1 Network Management

The Telephone Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. Generally, service levels are considered acceptable only when both end users and customers are able to establish connections with little or no delay encountered within the Telephone Company network. The Telephone Company maintains the right to apply protective controls, i.e., those actions, such as call gaping, which selectively cancel the completion of traffic, over any traffic carried over its network, including that associated with a customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Telephone Company or customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in Section 2.4.4(B)(3) preceding.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company (Cont'd)

6.2.2 Transmission Specifications

Each Switched Access Service transmission path is provided with standard transmission specifications. There are three different standard specifications (Types A, B and C). The standard for a particular transmission path is dependent on the Feature Group, the Interface Group and whether the service is directly routed or via an access tandem. The available transmission specifications are set forth in Section 15.1.2 following. Data Transmission Parameters are also provided with each Switched Access Service transmission path. The Telephone Company will, upon notification by the customer that the data parameters set forth in Section 15.1.3 following are not being met, conduct tests independently or in cooperation with the customer, and take any necessary action to insure that the data parameters are met.

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to May 25, 1984, except that service configurations having performance specifications exceeding the standards set forth in Section 15.1.2 following will be maintained at the performance levels specified.

The transmission specifications concerning Switched Access Service are limits which, when exceeded, may require the immediate corrective action of the Telephone Company. The transmission specifications are set forth in Section 15.1.2 following. Acceptance limits are set forth in Technical Reference TR-NWT-000334. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company (Cont'd)

6.2.3 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Telephone Company through its own service evaluation routines, may also be made available to the customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and non-completion performance, e.g., customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff sections, e.g., testing service results. If data are to be provided in other than paper format, the charges for such exchange will be determined on an individual case basis.

6.2.4 Testing

(A) Acceptance Testing

At no additional charge the Telephone Company will, at the customer's request, cooperatively test at the time of installation, the following parameters: loss, C-notched noise, C-message noise, 3-tone slope, DC continuity and operational signaling. When the Local Transport is provided with Interface Groups 2 through 10, and the Transport Termination is two-wire (i.e., there is a four-wire to two-wire conversion in Local Transport), balance parameters (equal level echo path loss) may also be tested.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company (Cont'd)

6.2.4 Testing (Cont'd)

(B) Routine Testing

At no additional charge, the Telephone Company will, at the customer's request, test after installation on an automatic or manual basis, 1004 Hz loss, C-message noise and Balance (Return loss).

In the case of automatic testing, the customer shall provide remote office test lines and 105 test lines with associated responders or their functional equivalent.

The frequency of these tests will be that which is mutually agreed upon by the customer and the Telephone Company, but shall consist of not less than quarterly 1004 Hz Loss and C-message noise tests and an annual Balance test. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

Additional tests may be ordered as set forth in Section 13.3.1 following. Charges for these additional tests are set forth in Section 17.5.7 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company (Cont'd)

6.2.5 Determination of Number of Transmission Paths

For Feature Groups A and B, which are ordered on a per line or per trunk basis respectively, and Feature Group D when ordered on a per trunk basis by customers other than MTS/WATS providers, the customer specifies the number of transmission paths in the order for service.

The Telephone Company will determine the number of Switched Access Service transmission paths to be provided for the Switched Access Feature Group C and D busy hour minutes of capacity ordered. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in Section 6.1.1(B) preceding) for the end offices for each Feature Group ordered from a customer's designated premises. The total busy hour minutes of capacity by type (e.g., originating, terminating, IDDD, Operator) for the end office will be converted to transmission paths using standard Telephone Company traffic engineering methods. The number of transmission paths provided shall be the number required based on (1) the use of access tandem switches and end office switches, (2) the use of the end office switches only, or (3) the use of the tandem switches only.

6.2.6 Trunk Group Measurement Reports

Subject to availability, the Telephone Company will make available trunk group data in the form of usage in CCS, peg count and overflow, to the customer based on previously agreed to intervals.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Obligations of the Customer

In addition to the obligations of the customer set forth in Section 2 preceding, the customer has certain specific obligations pertaining to the use of Switched Access Service. These obligations are as follows:

6.3.1 Report Requirements

Customers are responsible for providing the following reports to the Telephone Company, when applicable.

(A) Jurisdictional Reports

When a customer orders Switched Access Service for both interstate and intrastate use, the customer is responsible for providing reports as set forth in Section 2.3.11 preceding. Charges will be apportioned in accordance with those reports. The method to be used for determining the intrastate charges is set forth in Section 2.3.12 preceding.

(B) Code Screening Reports

When a customer orders service class routing, trunk access limitation or call gaping arrangements, it must report the number of trunks and/or the appropriate codes to be instituted in each end office or access tandem switch, for each of the arrangements ordered.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Obligations of the Customer (Cont'd)

6.3.2 Trunk Group Measurement Reports

With the agreement of the customer, trunk group data in the form of usage in CCS, Peg count and overflow for its end of all access trunk groups, where technologically feasible, will be made available to the Telephone Company. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.

6.3.3 Supervisory Signaling

The customer's facilities shall provide the necessary on-hook, off-hook, answer and disconnect supervision.

6.3.4 Short Duration Mass Calling Requirements

When a customer offers service for which a substantial call volume is expected during a short period of time (e.g., 900 service media stimulated events), the customer must notify the Telephone Company at least 48 hours in advance of each peak period. Notification should include the nature, time, duration, and frequency of the event, an estimated call volumes, and the telephone number(s) to be used.

On the basis of the information provided, the Telephone Company may invoke network management controls, (e.g., call gaping and code blocking) to reduce the probability of excessive network congestion. The Telephone Company will work cooperatively with the customer to determine the appropriate level of such control.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Switched Access Service.

6.4.1 Description and Application of Rates and Charges

There are two types of rates and charges that apply to Switched Access Service. These are usage rates and nonrecurring charges. These rates and charges are applied differently to the various rate elements as set forth in (C) following.

(A) Usage Rates

Usage rates for Switched Access Service are rates that apply on a per access minute basis when a specific rate element is used except for Network Blocking which is applied on a per call blocked basis beyond the blocking threshold. Access minute charges and network blocking charges are accumulated over a monthly period.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Switched Access Service are identified in Section 5 (Access Service Order) and Section 13 (Miscellaneous services).

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(1) Installation of Service

Nonrecurring charges apply to each Switched Access Service installed. For FGA, which is ordered on a per line basis, and for FGB, FGC and FGD, which is ordered on a per trunk basis, the charge is applied on a per line or trunk basis respectively. For FGC and FGD, which are ordered on a busy hour minutes of capacity basis, the charge is also applied on a per trunk basis but the charge applies only when the capacity ordered requires the installation or activation of an additional trunk(s) which is uniquely identified for the sole use of the ordering customer. A nonrecurring charge will not apply to install the Multifrequency Address Signaling optional feature or the Signaling System 7 Signaling optional feature.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(2) Service Rearrangements

All changes to existing services other than changes involving administrative activities and the off-hook supervisory signaling of FGA Access Services, will be treated as a discontinuance of the existing service and an installation of a new service. The nonrecurring charge described in (1) preceding will apply for this work activity. Moves that change the physical location of the point of termination are described and charged for as set forth in Section 6.4.4 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(2) Service Rearrangements (Cont'd)

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

- Change of customer name,
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing date (name, address, or contact name or telephone number),
- Change of agency authorization,
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

Changes and additions to existing Switched Access Services which are necessary due to Telephone Company initiated network reconfigurations, and required to provide the same grade of service to the customer than existed prior to the reconfiguration, will be made without charge to the customer. Charges will apply to those changes and additions which are in excess of those required to provide the same grade of service and/or capacity. Grade of service will be as determined by industry standard engineering tables.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(2) Service Rearrangements (Cont'd)

For additions, changes or modifications to an optional feature which has a separate nonrecurring charge, that nonrecurring charge will apply.

For additions, changes, or modifications to optional features that do not have their own separate nonrecurring charges, an Access Order Charge as set forth in Section 17.1.5 following will apply. When an optional feature is not required on each transmission path, but rather for an entire transmission path group, an end office or an access tandem switch, only one such charge will apply (i.e., it will not apply per transmission path).

(3) Multifrequency Address Signaling and SS7 Signaling Rearrangements

When a customer requests conversion of an existing trunk group from Multifrequency Address (MF) Signaling to SS7 Signaling or from SS7 Signaling to MF signaling, a Trunk Group Conversion Charge set forth in 17.1.2 applies. The Trunk Group Conversion Charge is applied per trunk group rearranged, irrespective of the number of trunks in the trunk group converted from one signaling type to another. Trunk Group Conversion Charges will apply when the following two conditions are met:

(a) End office and tandem trunk group conversion from MF(SS7) to SS7(MF) signaling will be provided only on Feature Group D direct trunks.
(b) The total number of trunks in a trunk group remain the same.

During the conversion of a trunk group from MF to SS7 signaling, a customer may add Calling Party Number (CPN), Charge Number (CN) and\or Carrier Selection Parameter (CSP) optional features.

The trunk group conversion charge will be waived by the Telephone Company until June 11, 1993, for all existing trunks in service as of February 1, 1993.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

Rates are applied either as premium rates or non-premium rates. Non-premium rates are discounted access minute rates for measured or assumed access minutes.

The specific application of these rates for a specific customer is dependent upon the Feature Group and/or the availability of equal access capabilities in the end office to which the service is provided.

The following rules provide the basis for applying the rates and charges:

(1) Premium Rates

Premium access rates shall apply only to those switched access minutes that:

(I) terminate via Feature Group B.

(ii) originate or terminate via Feature Group C;

(iii) originate from an equal access end office via any switched access feature group;

(iv) terminate to an equal access end office via any switched access feature group; or

(v) originate from a non-equal access end office and are routed over Feature Group D tandem connections.

(vi) are FGB access minutes that have been routed over FGD facilities at an end office or access tandem.

(2) Non-premium Rates

Non-premium rates (i.e., discounted access minute rates) apply to all FGA and FGB access minutes (measured or assumed) that have not been identified to be premium minutes per Section 6.4.1(C)(1), above.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(3) Unmeasured FGA and FGB Access Services

Where originating and/or terminating measurement capability does not exist for Feature Group A or Feature Group B Switched Access Services provided to the first point of switching, the number of access minutes that will be assumed are as set forth following in Section 6.5.4 and Section 6.6.4 respectively.

(4) Notice of Equal Access Conversion

The Telephone Company will provide written notification to all access customers of record within a particular LATA that an end office in that LATA is scheduled to be converted to an equal access end office. This notification will be sent, via certified U.S. Mail, to each customer of record in the LATA where the conversion is scheduled to occur, at least six months in advance of the conversion date.

The customer will have the choice of converting all or part of the existing services to equal access (i.e., Feature Group D) or retaining the existing services. The conversion of existing services will be at no charge provided the order to convert such services to Feature Group D is received as set forth in Section 6.4.3 following. Premium rates will apply to the total access minutes beginning on the actual conversion date, whether the customer chooses to convert to FGD or retain existing services.

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(5) 800/888/877 Data Base Access Service

A basic query or vertical feature query charge applies for each completed query that is returned from the 800/888/877 data base identifying the customer to whom the call will be delivered whether or not the actual call is delivered to the customer. The query is considered completed when the appropriate call routing information is returned to the Service Switching Point (SSP) that launched the query.
Query charges are set forth in 17.2.2.

When Feature Group C or Feature Group D switched access service is used for the provision of 800/888/877 Data Base Access Service and the total minutes of use and/or count of queries can be determined for each customer at a tandem or SSP but can not be determined by individual end office, an allocation method will be utilized to determine minutes of use and/or queries by end office and customer. For each end office a ratio will be developed and applied against the total minutes of use and/or count of queries for a given customer as determined by the tandem or SSP. These ratios will be developed by dividing the unidentified originating 800/888/877 minutes of use at an end office by the total unidentified originating minutes of use in all end offices subtending the tandem or SSP. For example, assume:

- Three end office (EO1, EO-2, and EO-3) subtend a tandem.

  EO-1 measures 2,000 minutes of 800/888/877 use
  EO-2 measures 3,000 minutes of 800/888/877 use
  EO-3 measures 5,000 minutes of 800/888/877 use
  10,000 TOTAL

- The tandem delivers 800/888/877 usage to two customers:

  IC-A has 4,000 minutes of use
  IC-B has 6,000 minutes of use

- The allocation ratio for EO-1 is 20%

  2,000/10,000

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(5) 800/888/877 Data Base Access Service

- The minutes of use to be billed EO-1 are

800 to IC-A (20% X 4,000)
1,200 to IC-B (20% X 6,000)
2,000 TOTAL

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.2 Minimum Monthly Charge

Switched Access Service is subject to a minimum monthly charge. The minimum charge applies for the total capacity provided. The minimum monthly charge is calculated as follows:

For the Local Transport and Local Switching rate elements, the minimum monthly charge is the sum of the recurring charges set forth in Section 17.2.2 and Section 17.2.3 following for either the actual measured usage or the assumed usage prorated to the number of days or major fraction of days based on a 30 day month.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.3 Change of Switched Access Service Arrangements

Changes from one type of Feature Group to another will be treated as a discontinuance of one type of service and a start of another. Nonrecurring charges will apply, with one exception. When a customer upgrades a Feature Group A or B service to a Feature Group D service and when Feature Group C is upgraded to Feature Group D coincident with the availability of Feature Group D in an end office, the nonrecurring charges will not apply and minimum period obligations will not change, i.e., the time elapsed in the existing minimum period obligation will be credited to the minimum period obligations for FGD service, subject to the following limitations.

In order to avoid the imposition of nonrecurring charges a customer which is a participant in the presubscription allocation process (i.e., is on the presubscription (ballot) must:

- submit its order to disconnect Feature Group A and/or B within 30 days after the date the results of the final allocation of customers in an end office are actually received by the customer, and

- make the effective date for disconnection of the Feature Group A and/or B Access Services no later than 60 days after the final allocation results are received by the customer.

A customer which is not a participant in the allocation process (i.e., is not on the presubscription ballot) is subject to the same rules preceding. The time frames for then on-participating customer(s) are the same as those which apply to the last customer to receive the results of the final allocation of customers in an end office who is a participant in the allocation process. For all other changes from one type of Feature Group to another, new minimum period obligations will be established.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.4 Moves

A move involves a change in the physical location of one of the following:

- The point of termination at the customer designated premises
- The customer designated premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring installation charge for the capacity affected. There will be no change in the minimum period requirements.

(B) Moves to a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new service. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

6.4.5 Local Information Delivery Services

Calls over Switched Access Service in the terminating direction to certain community information services will be rated under the applicable rates for Switched Access Service as set forth in Section 17.2 following. In addition, the charges per call as specified under the Telephone Company's local and/or general exchange service tariffs, e.g., 976 (DIAL-IT) Network Services, will also apply.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.6 Mileage Measurement

The mileage to be used to determine the monthly rate for Local Transport is calculated on the airline distance between the end office switch, which may be a Remote Switching Module, where the call carried by Local Transport originates or terminates and the customer's serving wire center, except as set forth in (A) through (F) following. Where applicable, the V&H coordinates method is used to determine mileage. This method is set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 for Wire Center Information (V&H coordinates).

Mileage rates are as set forth in Section 17.2.2 following. To determine the rate to be billed, first compute the airline mileage using the V&H coordinates method. If the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage and applying the rates. Then multiply the mileage by the appropriate rate. See Matrix in (H) following.

Exceptions to the mileage measurement rules are as follows:

(A) Five-Mile Rule

When a non AT&T customer designated premises is within five miles of an AT&T Class 4 office, the Local Transport mileage for a call which is carried over a Switched Access Service, originating or terminating through an end office switch, shall be the distance as would be determined from that end office switch to the serving wire center for that AT&T Class 4 office unless the customer specifies that for an entire LATA, it wants all measurements determined from its serving wire center. This designation (i.e., which serving wire center to use in calculating mileage) may be changed only once in any 12 month period. Such change will be made without charge(s) to the customer. This exception to mileage measurement rule shall remain in effect until the five mile provision is eliminated from the Exchange Telephone Company's Interstate Access Service Tariff.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.6 Mileage Measurement (Cont'd)

(B) Feature Group A - Originating Usage

Mileage for premium and non premium rated access minutes in the originating direction over Feature Group A Switched Access Service will be calculated on an airline basis, using the V&H coordinates method. The mileage measurement will be between the first point of switching (end office switch where the Feature Group A switching dial tone is provided) and the customer's serving wire center for the Switched Access Service provided.

(C) Feature Groups A and B - No Usage Measurement or Limited Measurement

Where originating and/or terminating measurement capability (1) does not exist, or (2) exists but it is not End Office specific, mileage for FGA and FGB will be calculated in the unmeasured direction(s) on an airline basis using the V&H coordinates method. This mileage measurement will be between the first point of switching (end office switch where the switching dial tone is provided), and the customers serving wire center for the Switched Access Services.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.6 Mileage Measurement (Cont'd)

(D) Feature Groups C and D - Alternate Traffic Routing

When the Alternate Traffic Routing optional feature is provided with Feature Groups C and D, the Local Transport access minutes will be apportioned between the two trunk groups used to Provide this feature. Such apportionment will be made using: (1) standard Telephone Company traffic engineering methodology and will be based on the last trunk CCS desire the high usage group, as described in Section 6.10.1 following (Alternate Traffic Routing), and busy hour minutes of capacity ordered to the end office, when the feature is provided at an office switch, or to the subtending end offices when the feature is provided at an access tandem switch, or (2) an apportionment mutually agreed to by the Telephone Company and the customer. This apportionment will serve as the basis for local Transport mileage calculation.

(E) Feature Group C - Multiple CDP's

When terminating Feature Group C Switched Access, service is provided from multiple customer designated premises to an end office not equipped with measurement capabilities, the total Local transport access minutes for that end office will be apportioned among the trunk groups accessing the end office on the basis of the individual busy hour minutes of capacity ordered for each of those trunk groups. This apportionment will serve as the basis for Local Transport mileage calculation.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.6 Mileage Measurement (Cont'd)

(F) Feature Groups A, B, C and D - WATS

The Local Transport Facility for Feature Groups A, B, C and D Switched Access Service connection with Special Access Service at a WATS Serving Office will be measured between the WATS Serving Office (when measured access minutes of use are used) or between Feature Group A entry switch (when assumed minutes of use are used) and the serving wire center for the customer designated premises.

(G) Feature Groups B and D - MTSO's Directly Interconnected to Access Tandems

The Local Transport mileage for Feature Groups B and D switched access service provided to Mobile Telephone Switching Offices (MTSO) directly interconnected to a Telephone Company access tandem office will be determined on an airline basis, using the V&H coordinate method. The mileage will be measured between the customers serving wire center and the telephone Company access tandem office to which the MTSO is interconnected.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.6 Mileage Measurement (Cont'd)

(H) Local Transport Facility Matrix

	EO	A/T DTO	ICSWC	Directionality
FGA(M)		LTT	----------	O
FGA(M)	LTT		----------	T
FGA(N)		LTT	----------	O or T
FGB (M)	LTT		----------	O or T
FGB (MTSO)		LTT	----------	O or T
FGC	LTT		----------	O or T
FGD	LTT		----------	O or T
FGD (MTSO)		LTT	----------	O or T

Key

M - End Office Specific Measurement Available
N - No End Office Specific Measurement Available
O - Originating
T - Terminating
EO - End Office
DTO - Dial Tone Office
A/T - Access Tandem
ICSWC - IC Serving Wire Center
LTT - Local Transport Termination
MTSO - Mobile Telephone Switching Office

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.7 Mixed Use

Mixed use occurs when Switched Access Service and Special Access Service are provided over the same High Capacity service through a common interface. The regulations governing the provision of Mixed Use Facilities are set forth in Section 5.2.4 preceding and Section 7.1.5 following.

The Telephone Company will designate the first point(s) of switching and routing to be used where equal access traffic is provided through a centralized equal access arrangement. For information on Telephone Company offices providing equal access through centralized arrangements, see Section 6.8.1 (B).

6.4.8 Message Unit Credit for Feature Group A

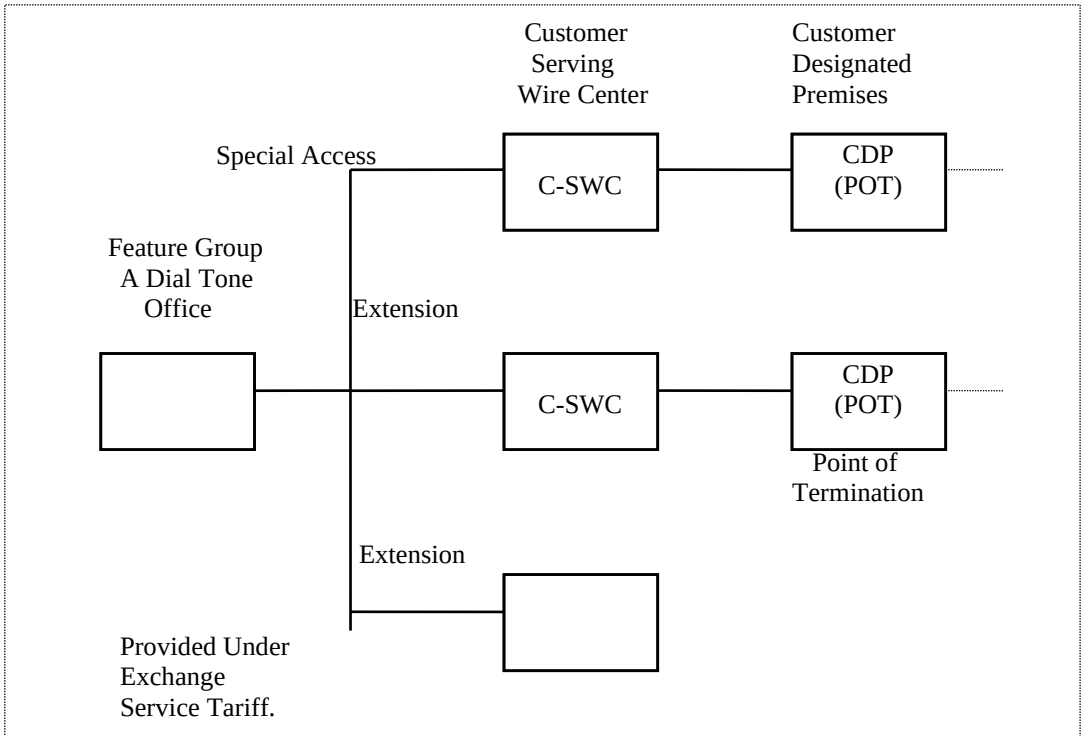
Calls from end users to the seven digit local telephone numbers associated with Feature Group A Switched Access Service are subject to Telephone Company local and/or general exchange service tariff charges (including message unit and toll changes as applicable). The monthly bills rendered to customers for their Feature Group A Switched Access Services will include a credit to reject and message unit charges collected from end users under the Telephone Company's local and/or general exchange service tariffs. When the customer is provided FGA service where measurement capability does not exist the credit will apply to access minutes not to exceed the assumed originating access minutes. No credit will apply for any terminating FGA access minutes. The message unit credit for originating access minutes will be based on the generally applicable message unit charges of the Telephone Company.

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.9 Application of Rates for Feature Group A Extension Service

Feature Group A Switched Access Service is available with extensions, i.e., additional terminations of the service at different customer designated premises in the same LATA as the FGA dial tone office or a LATA other than the LATA where the FGA dial tone office is located. Feature Group A extensions within the same LATA and same state as the dial tone office are provided and charged under the Telephone Company's local and/or general exchange service tariffs. Feature Group A extensions located in a LATA other than the LATA where the dial tone office is located or in a different state in the same LATA as the dial tone office are provided and charged as Special Access Service.



FEATURE GROUP A
EXTENSION SERVICE

In the example above, two CDPs are utilized to better illustrate the concept. From a practical standpoint, both the Switched Access and Special Access Services could be routed via the same CDP.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA)

6.5.1 Description

(A) FGA Access, which is available to all customers, provides like side access to Telephone Company end office switches with an associated seven digit local telephone number for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's Interstate Service or a customer - provided interstate communications capability. The customer must specify the Interexchange Carrier to which the FGA service is connected or, in the alternative, specify the means by which the FGA access communications is transported to another state. Special Access Services utilized for connection with FGA at Telephone Company designated WATS Serving Offices as set forth in NATIONAL EXCHANGE CARRIERS ASSOCIATION, INC. FCC TARIFF #4 may be ordered separately by a customer other than the customer which orders the FGA Switched Access Service for the provision of WATS-type services. Special Access Services are ordered as set forth in Section 5.2 preceding.

(B) FGA Switching is provided at all end office switches. At the option of the customer, FGA is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling which are specified by the customer's order for service.

(C) FGA provides a line side termination at the first point of switching (dial tone office). The line side termination will be provided with either ground start supervisory signaling or loop start supervisory signaling. The type of signaling is at the option of the customer.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.1 Description (Cont'd)

(D) The Telephone Company shall select the first point of switching, within the selected LATA, at which the line side termination is to be provided unless the customer requests a different first point of switching and Telephone Company facilities and measurement capabilities, where necessary, are available to accommodate such a request.

(E) A seven digit local telephone number assigned by the Telephone Company is provided for access to FGA switching in the originating direction. The seven digit local telephone number will be associated with the selected end office switch and is of the form NXX-XXXX.

If the customer requests a specific seven digit telephone number that is not currently assigned, and the Telephone Company can, with reasonable effort, comply with that request, the requested number will be assigned to the customer.

(F) FGA switching, when used in the terminating direction, is arranged with dial tone start-dial signaling. When used in the terminating direction FGA switching may, at the option of the customer, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When FGA switching is provided in a hunt group or uniform call distribution arrangement, all FGA switching will be arranged for the same type of address signaling.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.1 Description (Cont'd)

(G) No address signaling is provided by the Telephone Company when FGA switching is used in the originating direction. Address signaling in such cases, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.

(H) FGA switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, local operator service (0- and 0+), Directory Assistance (411 where available and 555-1212), emergency reporting service (911 where available), exchange telephone repair (611 where available), time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate digits).

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.1 Description (Cont'd)

(H) (Cont'd)

Charges for FGA terminating calls requiring operator assistance or calls to 611 or 911 will only apply where sufficient call details are available. Additional non- access charges will also be billed on separate account for (1) an operator surcharge, as set forth in the local exchange tariffs, for local operator assistance (0- and 0+) calls, (2) calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL IT) Network Services, and, (3) calls from a FGA line to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer.

(I) When a FGA switching arrangement for an individual customer (a single line or entire hunt group) is discontinued at an end office, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.2 Optional Features

Following are the various nonchargeable optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group A. They are provided as Common Switching, Transport Termination or Local Transport options.

(A) Common Switching Options

Descriptions of the common switching optional features are set forth in Section 6.10 following.

(1) Call Denial on Line or Hunt Group

(2) Service Code Denial on Line or Hunt Group

(3) Hunt Group Arrangement

(4) Uniform Call Distribution Arrangement

(5) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement

(6) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS-Type Services

(7) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS-Type Services

(8) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS-Type Services

(9) Nonhunting Number Associated with a Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision or WATS-Type Services

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.2 Optional Features (Cont'd)

(B) Transport Termination

(1) Two-way operation with dial pulse address signaling and loop start supervisory signaling

(2) Two-way operation with dial pulse address signaling and ground start supervisory signaling

(3) Two-way operation with dial tone multifrequency address signaling and loop start supervisory signaling

(4) Two-way operation with dial tone multifrequency address signaling and ground start supervisory signaling

(5) Terminating operation with dial pulse address signaling and loop start supervisory signaling

(6) Terminating operation with dial pulse address signaling and ground start supervisory signaling

(7) Terminating operation with dual tone multifrequency address signaling and loop start supervisory signaling

(8) Terminating operation with dual tone multifrequency address signaling and ground start supervisory signaling

(9) Originating operation with loop start supervisory signaling

(10) Originating operation with ground start supervisory signaling

(C) Local Transport Options

(1) Supervisory Signaling (as set forth in Section 15.1.1(E) following)

(2) Customer Specified Entry Switch Receive Level forth in Section 15.1.1(E) following)

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.3 Optional Features Provided In Local Tariffs

Certain other features which may be available in connection with Feature Group A (e.g., Speed Calling, Remote Call Forwarding, Bill Number Screening, IntraLATA extensions) are provided under the Telephone Company's local and/or general exchange service tariffs.

6.5.4 Measuring Access Minutes

Customer Feature Group A traffic to end offices will be measured (i.e., recorded) or assumed by the Telephone Company at end office switches. Originating and terminating calls will be measured (i.e., recorded) or assumed by the Telephone Company to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer access minutes of use based on previously known values.

For terminating calls over FGA and for originating calls over FGA (when the off-hook supervisory signal is provided by the customer's equipment before the called party answers), the measured minutes are the chargeable access minutes. For originating calls over FGA (when the off-hook supervisory signal is forwarded by the customer's equipment when the called party answers), chargeable originating access minutes are derived from recorded minutes using the same formula as set forth in Section 6.7.4 following for Feature Group C.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.4 Measuring Access Minutes (Cont'd)

For originating calls over FGA, usage measurement begins when the originating FGA first point of switching receives an off-hook supervisory signal forwarded from the customer's point of termination. This off-hook signal may be provided by the customer's equipment before the called party answers, or forwarded by the customer's equipment when the called party answers.

The measurement of originating call usage over FGA ends when the originating FGA first point of switching receives an on-hook supervisory signal from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

For terminating calls over FGA, usage measurement begins when the terminating FGA first point of switching receives an off-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has answered. The measurement of terminating call usage over FGA ends when the terminating FGA first point of switching receives an on-hook supervisory signal from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

FGA access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each line or hunt group, and are then rounded up to the nearest access minute for each line or hunt group.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.4 Measuring Access Minutes (Cont'd)

Assumed minutes are used for FGA services which originate or terminate in end offices not equipped with measurement capabilities and in such cases are the chargeable access minutes.

Where originating and terminating measurement capability does not exist for Feature Group A provided to the first point of switching, the number of access minutes will be assumed as set forth in Section 17.2.4 following.

Where measurement capability exists for either originating or terminating usage, but not both, on a line arranged for two way calling, the number of access minutes per line per month will be assumed usage, as set forth in 17.2.4 following, or the measured usage, whichever is greater. If the usage in the measured direction exceeds the assumed access minutes per line per month, no usage will be assigned in the unmeasured direction. If the measured usage is less than the assumed access minutes per line per month, the usage in the unmeasured direction will be the assumed usage, as set forth in Section 17.2.4 following, for that unmeasured direction except that the total of measured and assumed minutes in such instances will not exceed the total assumed usage designated for two way calling set forth in Section 17.2.4 following. If the total exceeds the assumed minutes set forth in Section 17.2.4 following, the assigned minutes shall be reduced so that the total of measured and unmeasured minutes equals the assumed minutes for two way calling set forth in Section 17.2.4 following.

Additionally, when the line is arranged for one way calling and there is no measurement capability for that direction, assumed originating access minutes, as set forth in Section 17.2.4(B) following, will be assigned for originating calling only lines and assumed terminating access minutes, as set forth in Section 17.2.4(C) following, will be assigned for terminating calling only lines.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.4 Measuring Access Minutes (Cont'd)

The following matrix illustrates the application of assumed access minutes for FGA as set forth in Section 17.2.4 following.

Service Ordered As	Can Measure Originating	Can't Measure Originating	Can Measure Terminating	Can't Measure Terminating
Originating Only	Actual	1,510	N/A	N/A
Terminating Only	N/A	N/A	Actual	2,685
Both Originating and Terminating (originating measurement greater than 4195)	Actual	N/A	N/A	0
Both Originating and Terminating (originating measurement equal or less than 4195)	Actual	N/A	N/A	0 to 2685*
Both Originating and Terminating (terminating measurement greater than 4195)	N/A	0	Actual	N/A
Both Originating and Terminating (terminating measurement equal or less than 4195)	N/A	0 to 1510*	Actual	N/A

* Sum of actual and assumed cannot exceed 4195. Reduce assumed minutes of use if necessary.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.4 Measuring Access Minutes (Cont'd)

Notwithstanding the preceding, when Feature Group A is used for the provision of WATS-type service where measurement capability exists at the WATS Serving Office but not at the Feature Group A first point of switching, the measured WATS-type originating and/or terminating minutes of use shall be separately summed and compared to their respective total assumed originating and/or terminating minutes of use. The number of access minutes per line per month will be the assumed or the measured usage, whichever is greater.

6.5.5 Testing Capabilities

FGA is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line and milliwatt (102 type) test line. In addition to the tests described in Section 6.2.4 preceding which are included with the installation of service (Acceptance Testing) and as ongoing routine testing, Additional Cooperative Acceptance Testing and Additional Manual Testing are available as set forth in Section 13.3.5 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB)

6.6.1 Description

(A) FGB Access, which is available to all customers, provides trunk side access to Telephone Company end office switches with an associated uniform 950-1XXX or 950-0XXX access code. FGB trunk side access is provided for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's Interstate Service or a customer provided interstate communications capability. The customer must specify the Interexchange Carrier to which the FGB service is connected or, in the alternative, specify the means by which the FGB access communications is transported to another state. Special Access Services utilized for connection with FGB at Telephone Company designated WATS Serving Offices as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. FCC TARIFF #4 may be ordered separately by a customer other than the customer which orders the FGB Switched Access Service for the provision of WATS or WATS-type services. Special Access Services are ordered as set forth in Section 5.2 preceding.

(B) FGB, when directly routed to an end office (i.e., provided without the use of an access tandem switch), is provided at appropriately equipped Telephone Company electronic end office switches. When provided via Telephone Company designated electronic access tandem switches, FGB switching is provided at Telephone Company electronic and electromechanical end office switches.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.1 Description (Cont'd)

(C) FGB is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start-pulsing signals and answer and disconnect supervisory signaling.

(D) FGB switching is provided with multifrequency address signaling in both the originating and terminating directions. Except for FGB switching provided with the automatic number identification (ANI) or rotary dial station signaling arrangements as set forth respectively in Section 6.10.1(F) and Section 6.10.2(A) following, any other address signaling in the originating direction, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.

(E) The access code for FGB switching is a uniform access code. The form of the uniform access code is 950-1XXX or 950-0XXX. A uniform access code(s) will be assigned to the customer for the customer's domestic communications and another will be assigned to the customer for its international communications, if required. These access codes will be the assigned access numbers of all FGB switched access service provided to the customer by the Telephone Company.

(F) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGB switching is ordered. When required by technical limitations, a separate trunk group will be established for each type of FGB switching arrangement provided. Different types of FGB or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.1 Description (Cont'd)

(G) FGB switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider and other customers' services (by dialing the appropriate digits). When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed.

The customer will also be billed additional non-access charges for calls to certain community information services for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL-IT) Network Service. Additionally, non-access charges will also be billed for calls from a FGB trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer.

Calls in the terminating direction will not be completed to 950-1XXX or 950- 0XXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911 or 101XXXX access codes. FGB may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.1 Description (Cont'd)

(H) When all FGB switching arrangements are discontinued at an end office and/or in a LATA, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

(I) For FGB switched access service to a Mobile Telephone Switching Office (MTSO) directly interconnected to a Telephone Company access tandem office, the customer will be billed only the Local Transport premium rate element for the FGB usage. The mileage used to determine this monthly rate for the local transport rate element is as set forth in Section 6.4.6(H) preceding.

(J) A customer who has FGB access may elect to have their FGB traffic routed over FGD trunks at the end office or access tandem. If the customer elects this option the FGB traffic will be rated at FGD rates.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.2 Optional Features

Following are descriptions of the various nonchargeable optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group B. They are set forth in (A), (B) and (C) following and are provided as Common Switching, Transport Termination and Local Transport options. Additionally, other optional features provided in local tariffs are set forth in (D) following.

(A) Common Switching Options

Descriptions of the common switching optional features are set forth in Section 6.10 following.

(1) Automatic Number Identification (ANI)

(2) Up to 7 Digit Outpulsing of Access Digits to Customer

(3) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

(4) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

(5) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

(6) Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.2 Optional Features (Cont'd)

(B) Transport Terminations Options

(1) Rotary Dial Station Signaling

(C) Local Transport Options

(1) Customer Specification of Local Transport Termination

(2) Optional Supervisory Signaling

(3) Customer Specified Entry Switch Receive Level

Inasmuch as these options concern transmission levels and signaling they are set forth in Section 15.1.1 following.

(D) Optional Features Provided In Local Tariffs

Another feature, Bill Number Screening, which may be available in connection with FGB, is provided under the Telephone Company's local and/or general exchange service tariffs.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.3 Design and Traffic Routing

For Feature Group B, the trunk directionality and traffic routing of the Switched Access Service between the customer designated premises and the entry switch are determined by the customer's order for service, except the Telephone Company will designate the first point(s) of switching and routing to be used where equal access is provided through a centralized equal access arrangement. For information on Telephone Company offices providing equal access through centralized arrangements, see Section 6.8.1 (B). Additionally, the customer may order the optional feature Customer Specification of Local Transport Termination as set forth in Section 15.1.1 following.

6.6.4 Measuring Access Minutes

Customer traffic to end offices will be measured (i.e., recorded) or assumed by the Telephone Company at end office switches or access tandem switches. Originating and terminating calls will be measured (i.e., recorded) or assumed by the Telephone Company to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer access minutes of use based on previously known values.

For both originating and terminating calls over FGB the measured minutes are the chargeable access minutes.

For originating calls over FGB, usage measurement begins when the originating FGB first point of switching receives answer supervision forwarded from the customer's point of termination, indicating the customer's equipment has answered.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.4 Measuring Access Minutes (Cont'd)

The measurement of originating call usage over FGB ends when the originating FGB first point of switching receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

For terminating calls over FGB, usage measurement begins when the terminating FGB first point of switching receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

The measurement of terminating call usage over FGB ends when the terminating FGB first point of switching receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

FGB access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

Assumed minutes are used for FGB services which originate or terminate in end offices not equipped with measurement capabilities and in such cases are the chargeable access minutes.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.4 Measuring Access Minutes (Cont'd)

Where originating and terminating measurement capability does not exist for Feature Group B provided to the first point of switching, the number of access minutes will be assumed, as set forth in Section 17.2.4 following, when the trunk is arranged for two way calling.

Where measurement capability exists for either originating or terminating usage, but not both, on a trunk arranged for two way calling, the number of access minutes per trunk per month will be assumed usage, as set forth in Section 17.2.4 following, or the measured usage, whichever is greater. If the usage in the measured direction exceeds the assumed access minutes per trunk per month, no usage will be assigned in the unmeasured direction. If the measured usage is less than the assumed access minutes per trunk per month, the usage in the unmeasured direction will be the assumed usage, as set forth in Section 17.2.4 following, for that unmeasured direction except that the total of measured and assumed minutes in such instances will not exceed the total assumed usage designated for two way calling set forth in Section 17.2.4 following. If the total exceeds the assumed minutes set forth in Section 17.2.4 following, the assigned minutes shall be reduced so that the total of measured and unmeasured minutes equals the assumed minutes for two way calling set forth in Section 17.2.4 following.

Additionally, when the trunk is arranged for one way calling and there is no measurement capability for that direction, assumed originating access minutes, as set forth in Section 17.2.4(E) following, will be assigned for originating calling only lines and assumed terminating access minutes, as set forth in Section 17.2.4(F) following, will be assigned for terminating calling only lines.

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.4 Measuring Access Minutes (Cont'd)

The following matrix illustrates the application of assumed access minutes for FGB as set forth in Section 17.2.4 following.

Service Ordered As	Can Measure Originating	Can't Measure Originating	Can Measure Terminating	Can't Measure Terminating
Originating Only	Actual	3,132	N/A	N/A
Terminating Only	N/A	N/A	Actual	5,568
Both Originating and Terminating (originating measurement greater than 8700)	Actual	N/A	N/A	0
Both Originating and Terminating (originating measurement equal or less than 8700)	Actual	N/A	N/A	0 to 5568*
Both Originating and Terminating (terminating measurement greater than 8700)	N/A	0	Actual	N/A
Both Originating and Terminating (terminating measurement equal or less than 8700)	N/A	0 to 3132*	Actual	N/A

* Sum of actual and assumed cannot exceed 8700. Reduce assumed minutes of use if necessary.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.4 Measuring Access Minutes (Cont'd)

Notwithstanding the preceding, when Feature Group B is used for the provision of WATS or WATS-type service where measurement capability exists at the WATS Serving Office but not at the Feature Group B first point of switching, the measured WATS or WATS - type originating and/or terminating minutes of use shall be separately summed and compared to their respective total assumed originating and/or terminating minutes of use. The number of minutes per trunk per month will be the assumed or the measured usage, whichever is greater.

When Feature Group B is ordered at an access tandem and end office specific usage measurement is not available, the actual assumed originating and/or terminating minutes of use as determined by the exchange carrier providing the access tandem will be apportioned among all subtending end offices. For each end office, such apportionment shall be based on the ratio of the total number of subscriber lines in each end office subtending the access tandem to the total number of subscriber lines associated with all end offices subtending the access tandem. For purposes of administering this regulation, subscriber lines are defined as exchange service lines, Centrex lines and Centrex type lines provided by the telephone companies under local and/or general exchange service tariffs. The resulting ratio for each end office is then applied to the total access area originating and or terminating minutes of use to determine originating and or terminating minutes of use to be assigned for billing purposes to each subtending end office in the access area.

The ratio used to calculate the access minutes will be determined by the Telephone Company and provided to the customer upon his request within 15 days of the receipt of such request.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.5 Testing Capabilities

FGB is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in Section 6.2.4 preceding which are included with the installation of service (Acceptance Testing) and as ongoing routine testing, Additional Cooperative Acceptance Testing, Additional Automatic Testing, and Additional Manual Testing are available as set forth in Section 13.3.1 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC)

6.7.1 Description

(A) FGC Access provides trunk side access to Telephone Company end office switches for the customer's use in originating and terminating communications. Originating and terminating FGC Access is available to providers of MTS and WATS. Originating FGC Access is available to all customers when used to provide the Interim NXX Translation optional feature or 800/888/877 Data Base. Terminating FGC access is available to all customers other than providers of MTS and WATS when such access is used in conjunction with the provision of the Interim NXX Translation optional feature or 800/888/877 database, but only for purposes of testing. Existing FGC Access will be converted to Feature Group D Access when Feature Group D Access becomes available in an end office. Special Access Services utilized for connections with FGC at Telephone Company designated WATS Serving Offices as set forth in Section 7. following may be ordered separately by a customer other than the customer which orders the FGC Switched Access Service (i.e., a provider of MTS and WATS) for the provision of WATS Services. Special Access Services are ordered as set forth in Section 5.2 preceding.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.1 Description (Cont'd)

(B) Feature Group C switching is provided at all end office switches unless Feature Group D end office switching is provided in the same office. When FGD switching is available, FGC switching will not be provided. FGC is provided at Telephone Company end office switches on a direct trunk basis or via Telephone Company designated access tandem switches. Feature Group C switching is furnished to providers of MTS and WATS. Additionally, originating Feature Group C switching is available to all customers when used to provide the Interim NXX Translation optional feature and 800/888/877 Data Base service. Terminating Feature Group C switching is available to all customers who are not MTS and WATS providers only when such terminating access is for purposes of testing Feature Group C facilities provided in conjunction with the Interim NXX Translation optional feature or 800/888/877 Data Base service.

(C) FGC is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with answer and disconnect supervisory signaling. Wink start-pulsing signals are provided in all offices where available. In those offices where wink start-pulsing signals are not available, delay dial start-pulsing signals will be provided, unless immediate dial pulse signaling is provided, in which case no start-pulsing signals are provided.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.1 Description (Cont'd)

(D) FGC is provided with multifrequency address signaling except in certain electromechanical end office switches where multifrequency signaling is not available. In such switches, the address signaling will be dial pulse or immediate dial pulse signaling, whichever is available. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such called party number signals will be subject to the ordinary transmission capabilities of the Local Transport provided.

(E) No access code is required for FGC switching. The telephone number dialed by the customer's end user shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA +NXX-XXXX, 0 or 1 + NPA + NXX-XXXX, and, when the end office is equipped for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.1 Description (Cont'd)

(F) FGC switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information provider, and other customer's services (by dialing the appropriate codes) when the services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by offices subtending the access tandem may be accessed. Where measurement capabilities exist, the customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL IT) Network Services. Additionally, non-access charges will also be billed for calls from a FGC trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-1XXX or 950-0XXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911 and 101XXXX access codes. FGC may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C or D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.1 Description (Cont'd)

(G) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGC switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGC switching arrangement provided. Different types of FGC or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

(H) Unless prohibited by technical limitations the providers of MTS and WATS may, at their option, combine Interim NXX Translation and/or 800/888/877 Data Base traffic in the same trunk group arrangement with their non-Interim NXX Translation traffic. When required by technical considerations, or when provided to a customer other than the provider of MTS and WATS, or at the request of the customer (i.e., provider of MTS and WATS), a separate trunk group will be established for Interim NXX Translation and/or 800/888/877 Data Base traffic.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.2 Optional Features

Following are descriptions of the various nonchargeable and chargeable optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group C. Nonchargeable optional features are provided as Common Switching, Transport Termination and Local Transport options as set forth in (A) through (C) following. Chargeable optional features are set forth in (D) following.

(A) Common Switching Options

Descriptions of the common switching optional features are set forth in Section 6.10 following.

(1) Automatic Number Identification (ANI)

(2) Signaling Options

(a) Delay Dial Start-Pulsing Signaling

(b) Immediate Dial Pulse Address Signaling

(c) Dial Pulse Address Signaling

(3) Service Class Routing

(4) Alternate Traffic Routing

(5) Trunk Access Limitation

(6) Band Advance Arrangement Associated with Special Access Service Utilized in the Provision of WATS Service

(7) End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS Service

(8) Hunt Group Arrangement for Use with Special Service Utilized in the Provision of WATS Service

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.2 Optional Features (Cont'd)

(A) Common Switching Options (Cont'd)

(9) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS Services

(10) Nonhunting Number Associated with a Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS Services

(B) Transport Termination Options

(1) Operator Trunk - Coin, Non-Coin or Combined Coin and Non-Coin

The Operator Trunk option is set forth in Section 6.10.2(B) following.

(C) Local Transport Options

One optional feature is available with Local Transport associated with FGC. That optional feature is Supervisory Signaling and, due to its technical nature, is set forth in Section 15.1.1 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.3 Design and Traffic Routing

For Feature Group C, the Telephone Company shall design and determine the routing of Switched Access Service, including the selection of the first point of switching and the selection of facilities from the interface to any switching point and to the end offices where busy hour minutes of capacity are ordered. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups. Finally, the Telephone Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment.

Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and the Telephone Company traffic routing plans. If the customer desires routing or directionality different from that determined by the Telephone Company, the Telephone Company will work cooperatively with the customer in determining (1) whether the service is to be routed directly to an end office or through an access tandem switch and (2) the directionality of the service.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.4 Measuring Access Minutes

Customer traffic to end offices will be measured (i.e., recorded) by the Telephone Company at end office switches or access tandem switches. Originating and terminating calls will be measured or imputed by the Telephone Company to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer access minutes of use based on previously known values.

For terminating calls over FGC to 800/888/877 when measurement capability exists, the measured minutes are the chargeable access minutes. For originating calls over FGC, chargeable originating access minutes are derived from recorded minutes in the following manner:

Step 1: Obtain recorded originating minutes and messages, sourcing from the appropriate recording data.

Step 2: Obtain the total attempts by dividing the originating measured messages by the completion ratio. Completion ratios (CR) are obtained separately for the major call categories such as DDD, operator, 800/888/877, 900, directory assistance and international from a sample study which analyzes the ultimate completion status of the total attempts which receive acknowledgement from the customer. That is, Measured Messages divided by Completion Ratio equals Total Attempts.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.4 Measuring Access Minutes (Cont'd)

Step 3: Obtain the total non-conversation time additive (NCTA) by multiplying the total attempts (obtained in Step 2) by the NCTA per attempt ratio. The NCTA per attempt ratio is obtained from the sample study identified in Step 2 by measuring the non-conversation time associated with both completed and uncompleted attempts. The total NCTA is the time on a completed attempt from customer acknowledgement of receipt of call to called party answer (set up and ringing) plus the time on an uncompleted attempt from customer acknowledgment of call until the access tandem or end office receives a disconnect signal (ring - no answer, busy or network blockage). That is, Total Attempts times Non- Conversation Time per Attempt Ratio equals Total NCTA.

Step 4: Obtain total chargeable originating access minutes by adding the total NCTA (obtained in Step 3) to the recorded originating measured minutes (obtained in Step 1). That is, Measured Minutes plus NCTA equals Chargeable Originating Access Minutes.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.4 Measuring Access Minutes (Cont'd)

Following is an example which illustrates how the chargeable originating access minutes are derived from the measured originating minutes using this formula.

Where:	Measured Minutes (M. Min.)	=	7,000
	Measured Messages (M. Mes.)	=	1,000
	Completion Ratio (CR)	=	.75
	NCTA per Attempt	=	.4

(1) Total Attempts = $\frac{1{,}000(\text{M. Mes})}{.75\ (\text{CR})}$ = 1,333.3

(2) Total NCTA = .4 (NCTA per Attempt) x 1,333.33 = 533.33

(3) Total Chargeable Originating Access Minutes = 7,000(M. Min) + 533.33(NCTA) = 7,533.33

FGC access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

For originating calls over FGC, usage measurement begins when the originating FGC first point of switching receives answer supervision from the customer's point of termination, indicating the called party has answered.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.4 Measuring Access Minutes (Cont'd)

Originating Usage (Cont'd)

The measurement of originating call usage over FGC ends when the originating FGC first point of switching receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

Terminating Usage

For terminating calls over FGC the chargeable access minutes are either measured or imputed. For terminating calls over FGC where measurement capability does not exist, terminating FGC usage is imputed from originating usage, excluding usage from calls to closed end services or Directory Assistance Services.

For terminating calls over FGC where measurement capability exists, the measurement of chargeable access begins when the terminating FGC first point of switching receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered. The measurement ends when the terminating FGC first point of switching receives an on-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has disconnected, or from the customer's point of termination, whichever is recognized first by the first point of switching.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.5 Design Blocking Probability

The Telephone Company will design the facilities used in the provision of Switched Access Service FGC to meet the blocking probability criteria as set forth in (A) and (B) following.

(A) For Feature Group C, the design blocking objective will be no greater than one percent (.01) between the point of termination at the customer's designated premises and the first point of switching when traffic is directly routed without an alternate route. Standard traffic engineering methods will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.

(B) The Telephone Company will perform routine measurement functions to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional capacity (i.e., busy hour minutes of capacity) be ordered by the customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.5 Design Blocking Probability (Cont'd)

(B) (Cont'd)

(1) For transmission paths carrying only first routed traffic direct between an end office and customer's designated premises without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m. Per Trunk Group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	7%	8%	9%	14%
3	5%	6%	7%	9%
4	5%	6%	7%	8%
5-6	4%	5%	6%	7%
7 or more	3%	3.5%	4%	6%

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.5 Design Blocking Probability (Cont'd)

(B) (Cont'd)

(2) For transmission paths carrying first routed traffic between an end office and customer's premises via an access tandem, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m. Per Trunk Group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	4.5%	5.5%	6.0%	9.5%
3	3.5%	4.0%	4.5%	6.0%
4	3.5%	4.0%	4.5%	5.5%
5-6	2.5%	3.5%	4.0%	4.5%
7 or more	2.0%	2.5%	3.0%	4.0%

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.6 Testing Capabilities

FGC is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in Section 6.2.4 preceding which are included with the installation of service (Acceptance Testing) and as ongoing routine testing, Additional Cooperative Acceptance Testing, Additional Automatic Testing and Additional Manual Testing are available as set forth in Section 13.3.1 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD)

6.8.1 Description

(A) FGD Access, which is available to all customers, provides trunk side access to Telephone Company end office switches. Special Access Services utilized for connection with FGD at Telephone Company designated WATS Serving offices as set forth in Section 7 following may be ordered separately by a customer other than the customer which orders the FGD Switched Access Service for the provision of WATS or WATS-type services. Special Access Services are ordered as set forth in Section 5.2 preceding.

(B) FGD is provided at Telephone Company designated end office switches whether routed directly or via Telephone Company designated electronic access tandem switches. The Telephone Company will designate the first point(s) of switching for FGD services where the Telephone Company elects to provide equal access through a centralized equal access arrangement. FGD provisioned with the SS7 Signaling Optional Feature is available where conditions permit at Telephone Company designated electronic switches. Those Telephone Company offices providing equal access through centralized arrangements or capable of providing SS7 Signaling are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

(C) FGD is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment may be provided with wink start start-pulsing signals and answer and disconnect supervisory signaling, or without signaling when the SS7 optional feature is specified.

(D) FGD switching is provided with multifrequency address signaling or out-of-band SS7 signaling. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address or common channel Signaling System 7 (out-of-band) signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Local Transport provided.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.1 Description (Cont'd)

(E) FGD switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate codes) when such services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL-IT) Network Service. Additionally, non-access charges will also be billed for calls from a FGD trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-1XXX or 950-0XXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911 and 101XXXX access codes. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C or D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.1 Description (Cont'd)

(F) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem Switches where FGD switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGD switching arrangement provided. Different types of FGD or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

(G) The access code for FGD switching is a uniform access code of the form 101XXXX. A uniform access code(s) will be the assigned number of all FGD access provided to the customer by the Telephone Company. No access code is required for calls to a customer over FGD Switched Access Service if the end user's telephone exchange service is arranged for presubscription to that customer, as set forth in Section 13.3.3 following.

Where no access code is required, the number dialed by the customer's end user shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1 + NXX- XXXX, NPA + NXX-XXXX, 0 or 1 + NPA + NXX-XXXX, and, when the end office is equipped for International Direct Distance Dialing (1000), 01 + CC + NN or 011 + CC + NN. When the 101XXXX access code is used, FGD switching also provides for dialing the digit 0 for access to the customer's operator, 911 for access to the Telephone Company's emergency reporting service, or the end-of-dialing digit (#) for cut-through access to the customer designated premises. Unless otherwise ordered by the F.C.C., when equal access is provided through a centralized equal access arrangement the 101XXXX access code may not be available in certain equal access offices. Those offices which provide FGD Switched Access Service without the 101XXXX access code are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.1 Description (Cont'd)

(H) FGD switching will be arranged to accept calls from telephone exchange service locations without the need for dialing the 101XXXX uniform access code. Each telephone exchange service line may be marked with a code to identify which 101XXXX code its calls will be directed to for interLATA service.

(I) Unless prohibited by technical limitations, the customer's Interim NXX Translation and/or 800/888/877 Data Base traffic may, at the option of the customer, be combined in the same trunk group arrangement with the customer's non-Interim NXX Translation and/or Data Base traffic. When required by technical limitations, or at the request of the customer, a separate trunk group will be established for Interim NXX Translation and/or Data Base traffic.

(J) When a customer has had FGB access in an end office and subsequently replaces the FGB access with FGD access, at the mutual agreement of the customer and the Telephone Company, the Telephone Company will direct calls dialed by the customer's end users using the customer's previous FGB access code to the customer's FGD access service. The customer must be prepared to handle normally dialed FGD calls, as well as calls dialed with the FGB access code which requires the customer to receive additional address signaling from the end user. Such calls will be rated as FGD. The Telephone Company may, with 90 days' written notice to the customer, discontinue this arrangement.

(K) For FGD switched access service to a Mobile Telephone Switching Office (MTSO) directly interconnected to a Telephone Company access tandem office, the customer will be billed only the Local Transport premium rate element for the FGD usage. The mileage used to determine the monthly rate for the local transport rate element is as set forth in Section 6.4.6(H) preceding.

(L) A customer who has FGB access may elect to have their FGB traffic routed over FGD trunks at the end office or access tandem. If the customer elects this option the FGB traffic will be rated at FGD rates.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.2 Optional Features

Following are the various nonchargeable and chargeable optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group D. Nonchargeable Optional Features are provided as Common Switching, Transport Termination and Local Transport options as set forth in (A) through (C) following. Chargeable optional features are set forth in (D) following.

(A) Common Switching Options

Descriptions of the common switching optional features are set forth in Section 6.10 following.

(1) Automatic Number Identification (ANI)

(2) Service Class Routing

(3) Alternate Traffic Routing

(4) Trunk Access Limitation

(5) Call Gaping Arrangement

(6) International Carrier Option

(7) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

(8) End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

(9) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.2 Optional Features (Cont'd)

(A) Common Switching Options (Cont'd)

(10) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the provision of WATS or WATS-Type Services

(11) Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

(12) Digital Switched 56 Service

(B) Transport Termination Options

(l) Operator Trunk - Full Feature

The Operator Trunk optional feature is set forth in Section 6.10.2(C) following.

(C) Local Transport Options

One optional feature is available with Local Transport associated with FGD. That optional feature is Supervisory Signaling and, due to its technical nature, is set forth in Section 15.1.1 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.3 Design and Traffic Routing

For Feature Group D, the Telephone Company shall design and determine the routing of Switched Access Service, including the selection of the first point of switching and the selection of facilities from the interface to any switching point and to the end offices where busy hour minutes of capacity are ordered. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups. Finally, the Telephone Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment.

Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and the Telephone Company traffic routing plans. If the customer desires routing or directionality different from that determined by the Telephone Company, the Telephone Company will work cooperatively with the customer in determining (1) whether the service is to be routed directly to an end office or through an access tandem switch and (2) the directionality of the service; except the Telephone Company will designate the first point(s) of switching and routing to be used where equal access is provided through a centralized equal access arrangement. For information on Telephone Company offices providing equal access through centralized arrangements, see NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., F.C.C. TARIFF #4.

6.8.4 Measuring Access Minutes

Customer traffic to end offices will be recorded at end office switches or access tandem switches. Originating and terminating calls will be measured or derived to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer access minutes of use based on previously known values.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.4 Measuring Access Minutes (Cont'd)

Originating Usage

For originating calls over FGD the measured minutes are the chargeable access minutes.

For originating calls over FGD, usage measurement begins when the originating FGD first point of switching receives the first wink supervisory signal forwarded from the customer's point of termination. For originating calls over FGD with SS7 option, usage measurement begins with the transmission of the initial address message by the switch for direct trunk groups and with the receipt of an exit message by the switch for tandem trunk groups. The measurement of originating FGD call usage ends when the entry switch receives or sends a release message, whichever occurs first.

The measurement of originating call usage over FGD ends when the originating FGD first point of switching receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

Terminating Usage

For terminating calls over FGD the chargeable access minutes are either measured or derived.

For terminating calls over FGD where measurement capability exists, the measurement of chargeable access minutes begins when the terminating FGD first point of switching receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered. This measurement ends when the terminating FGD first point of switching receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

For terminating calls over FGD, where measurement capability does not exist, terminating FGD usage is imputed from originating usage, excluding usage from calls to closed end services or Directory Assistance Services.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.5 Design Blocking Probability

The Telephone Company will design the facilities used in the provision of Switched Access Service FGD to meet the blocking probability criteria as set forth in (A) and (B) following.

(A) For Feature Group D, the design blocking objective will be no greater than one percent (.01) between the point of termination at the customer's designated premises and the end office switch, whether the traffic is directly routed without an alternate route or routed via an access tandem. Standard traffic engineering methods as set forth in reference document "Telecommunications Transmission Engineering - Volume 3 - Networks and Services" (Chapters 6-7) will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.

(B) The Telephone Company will perform routine measurement functions to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional capacity (i.e., busy hour minutes of capacity or trunks) be ordered by the customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.5 Design Blocking Probability (Cont'd)

(B) (Cont'd)

(1) For transmission paths carrying only first routed traffic direct between an end office and customer's designated premises without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m. Per Trunk Group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	7%	8%	9%	14%
3	5%	7%	7X	9X
4	5%	6%	7X	8X
5-6	4%	5%	6%	7X
7 or more	3%	3.5%	4%	6%

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.5 Design Blocking Probability (Cont'd)

(B) (Cont'd)

(2) For transmission paths carrying only first routed traffic direct between an end office and customer's designated premises via an access tandem, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m. Per Trunk Group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	4.5%	5.5%	6%	9.5
3	3.5%	4%	4.5%	6%
4	3.5%	4%	4.5	5.5X
5-6	2.5%	3.5%	4%	4.5%
7 or more	2%	2.5%	3%	4%

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.6 Network Blocking Charges

The customer will be notified by the Telephone Company to increase its capacity (busy hour minutes of capacity or quantities of trunks) when excessive trunk group blocking occurs on groups carrying Feature Group D traffic and the measured access minutes for that hour exceed the capacity purchased. Excessive trunk group blocking occurs when the blocking thresholds stated below are exceeded. They are predicated on time consistent, hourly measurements over a 30 day period excluding Saturdays, Sundays and national holidays. If the order for additional capacity has not been received by the Telephone Company within 15 days of the notification, the Telephone Company will bill the customer, at the rate set forth in Section 17.2.2 following, for each overflow in excess of the blocking threshold when (1) the average "30 day period" overflow exceeds the threshold level for any particular hour and (2) the "30 day period" measured average originating or two-way usage for the same clock hour exceeds the capacity purchased.

	Blocking Thresholds	
Trunks in Service	1%	1/2%
1-2	7.0%	4.5%
3-4	5.0%	3.5%
5-6	4.0%	2.5%
7 or greater	3.0%	2.0%

The 1% blocking threshold is for transmission paths carrying traffic direct (without an alternate route between an end office and a customer's premises. The 1/2% blocking threshold is for transmission paths carrying first routed traffic between an end office and a customer's premises via an access tandem.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.7 Testing Capabilities

FGD is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in Section 6.2.4 preceding, which are included with the installation of service (Acceptance Testing) and as ongoing routine testing, Additional Cooperative Acceptance Testing, Additional Automatic Testing and Additional Manual Testing, are available as set forth in Section 13.3.1 following.

When FGD with the SS7 option is ordered, network compatibility and other operational tests will be performed cooperatively by the Telephone Company with the Customer at locations, dates and times as specified by the Telephone Company in consultation with the Customer. These tests are specified in Technical Publication TR-TSV-000905. Successful completion is necessary to receive the SS7 option. To protect the security of the SS7 network, certain information provided by the Telephone Company (ie: point codes) to the Customer will be subject to a nondisclosure agreement.

6. Switched Access Service (Cont'd)

6.9 Reserved for Future Use

6.10 Chargeable and Nonchargeable Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in addition to, the standard features provided with the Feature Groups. They are provided as Common Switching, Transport Termination or Interim NXX Translation Options.

6.10.1 Common Switching Nonchargeable Optional Features

The following table shows the Feature Groups with which the optional footnotes are available.

		Available Feature Groups			
	Option	A	B	C	D
A)	Call Denial on Line or Hunt Group	X			
B)	Service Code Denial on Line or Hunt Group	X			
C)	Hunt Group Arrangement	X			
D)	Uniform Call Distribution Arrangement	X			
E)	Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement	X			
F)	Automatic Number Identification (ANI)		X	X	X
G)	Up to 7 Digit Outpulsing of Access Digits to Customer		X		
H)	Delay Dial Start-Pulsing Signaling			X	
I)	Immediate Dial Pulse Address Signaling			X	
J)	Dial Pulse Address Signaling			X	
K)	Service Class Routing			X	X
L)	Alternate Traffic Routing			X	X
M)	Trunk Access Limitation			X	X
N)	Call Gaping Arrangement				X
O)	International Carrier Option				X
P)	Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services.	X	X	X	X
Q)	End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services.		X	X	
R)	Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services.	X	X	X	X
S)	Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services.	X	X	X	X

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

	Option	Available Feature Groups A	B	C	D
T)	Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services.	X	X	X	X
U)	Digital Switched 56 Service				X
V)	Calling Party Number (Originating only where facilities exist)				X
W)	Charge Number (Originating Only)				X
X)	Carrier Selection Parameter (Originating only where facilities exist)				X
Y)	Multifrequency Address (MF) Signaling		X	X	X
Z)	Signaling System 7 (SS7) Signaling				X

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(A) Call Denial on Line or Hunt Group

This option allows for the screening of terminating Feature Group A calls. There are two screening arrangements available with this option as follows:

(1) Limiting terminating calls for completion to only 411 or 555-1212 whichever is available, 611, 911, 800/888/877 and Telephone Company specified set of NXX's within the Telephone Company local exchange calling area of the dial tone office in which the arrangement is provided or,

(2) Limiting terminating calls to completion to only the NXXs associated with all end offices in the LATA, i.e., the call cannot be further switched or routed out of the LATA nor will calls be completed to 411 or 555-1212 whichever is available, 611, 911, or 800/888/877.

All other calls are routed to a reorder tone or recorded announcement. Arrangement 1 is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices. Arrangement 2 is provided where available. This feature is available with Feature Group A.

(B) Service Code Denial on Line or Hunt Group

This option allows for the screening of terminating calls within the LATA, and for disallowing completion of calls to 0-, 555 and N11 (e.g., 411, 611, and 911). This feature is provided where available in all Telephone Company end offices. It is available with Feature Group A.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(C) Hunt Group Arrangement

This option provides the ability to sequentially access one of two or more line side connections in the originating direction, when the access code of the line group is dialed. This feature is provided in all Telephone Company end offices. It is available with Feature Group A. All Feature Group A access services in the same hunt group must provide off- hook supervisory signaling from the same point in time in the call sequence i.e., all off- hook supervisory signals must either be provided by the customer's equipment before the called party answers or all must be forwarded by the customer's equipment when the called party answers.

(D) Uniform Call Distribution Arrangement

This option provides a type of multiline hunting arrangement which provides for an even distribution of calls among the available lines in a hunt group. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

(E) Nonhunting Number for Use with Hunt Group Uniform Call Distribution Arrangement

This option provides access to an individual line within a multiline hunt or uniform call distribution group. When the nonhunting number is dialed, access is provided when it is idle, or busy tone is provided when it is busy. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(F) Automatic Number Identification (ANI)

(1) This feature provides the automatic transmission of a seven digit or ten digit number and information indicates to the customer designated premises for calls originating in the LATA, in order to identify the calling station. The ANI feature is an end office software function which is associated on a call-by-call basis with:

(a) individual transmission paths in a trunk group routed directly between an end office and a customer designated premises or, where technically feasible, with

(b) all individual transmission paths in a trunk group between an end office and an access tandem, and a trunk group between an access tandem and a customer designated premises.

(2) The seven digit ANI telephone number is generally available with Feature Groups B and C. With these Feature Groups, technical limitations may exist in Telephone Company switching facilities which require ANI to be provided only on a directly trunked basis. ANI will be transmitted on all calls except those originating from multiparty line, coin stations and coinless pay telephones using Feature Group B, or when an ANI failure has occurred. Seven digit ANI is not available with SS7 signaling.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(F) Automatic Number Identification (ANI) (Cont'd)

(3) The ten digit ANI telephone number is only available with Feature Group D with multifrequency address signaling. When the SS7 signaling optional feature is specified, the Customer may obtain an ANI equivalent by ordering the Charge Number optional feature, as specified in 6.10.1(W) preceding. The ten digit ANI telephone number consists of the Number Plan Area (NPA) plus the seven digit ANI telephone number. The ten digit ANI telephone number will be transmitted on all calls except those identified as multiparty line or ANI failure, in which case only the NPA will be transmitted (in addition to the information digit described below).

(4) With Feature Group C, at the option of the customer, ANI may be ordered from end offices where Telephone Company recording for end user billing is not provided. Additionally, ANI is provided from end offices where message detail recording is not required by the Telephone Company; as with 800/888/877 service. ANI is not provided from end offices where the Telephone Company forwards ANI to its recording equipment.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(F) Automatic Number Identification (ANI) (Cont'd)

(5) Where complete ANI detail cannot be provided, e.g., on calls from 4 and 8 party services, information digits will be provided to the customer.

The information digits identify:

(a) telephone number is the station billing number - no special treatment required,

(b) multi-partyline - telephone number is a 4- or 8- party line and cannot be identified - number must be obtained via an operator or in some other manner,

(c) ANI failure has occurred in the end office switch which prevents identification of calling telephone number - must be obtained by operator or in some other manner,

(d) hotel/motel originated call which requires room number identification,

(e) coinless station, hospital, inmate, etc. call which requires special screening or handling by the customer, and

(f) call is an Automatic Identified Outward Dialed (AIOD) call from customer premises equipment. The AIOD ANI telephone number is the listed telephone number of the customer and is not the telephone number of the calling party.

These ANI information digits are generally available with Feature Groups B, C, and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(F) Automatic Number Identification (ANI) (Cont'd)

(6) Additional ANI information digits are available with Feature Group D also. They include:

(a) InterLATA restricted - telephone number is identified line

(b) InterLATA restricted - hotel/motel line

(c) InterLATA restricted - coinless, hospital, inmate, etc., line

These information digits will be transmitted as agreed to by the customer and the Telephone Company.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(G) Up to 7 Digit Outpulsing of Access Digits to Customer

This option provides for the end office capability of providing up to 7 digits of the uniform access code (950-1/0XXX) to the customer designated premises. The customer can request that only some of the digits in the access code be forwarded. The access code digits would be provided to the customer designated premises using multifrequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. This feature is available with Feature Group B.

(H) Delay Dial Start-Pulsing Signaling

Where available, this option provides a method of indicating to the near end trunk circuit readiness to accept address signaling information by the far end trunk circuit. Delay dial is often referred to as an off-hook, on-hook signaling sequence. The delay dial signal is the off-hook interval and the start-pulsing signal is the on-hook interval. With integrity check, the calling office will not outpulse until a delay dial (off-hook) signal followed by a start-pulsing (on-hook) signal has been identified at the calling office. This option is available with Feature Group C.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(I) Immediate Dial Pulse Address Signaling

Where available, this option provides for the forwarding of dial pulses from the Telephone Company end office to the customer without the need of a start-pulsing signal from the customer. It is available with Feature Group C.

(J) Dial Pulse Address Signaling

Where available, this trunk side option provides for the transmission of number information, e.g., called number, between the end office switching system and the customer designated premises (in either direction) by means of direct current pulses. It is available with Feature Group C.

(K) Service Class Routing

This option provides the capability of directing originating traffic from an end office to a trunk group to a customer designated premises, based on the line class of service (e.g., coin, multiparty or hotel/motel), service prefix indicator (e.g., 0-, 0+, 01+ or 011+; the indicators are, respectively, 128, 130, 136 or 135) or Service Access Code (e.g., 900). It is provided in suitably equipped end office or access tandem switches. It is available with Feature Groups C and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(L) Alternate Traffic Routing

This option provides the capability of directing originating traffic from an end office (or appropriately equipped access tandem) to a trunk group (the "high usage" group) to a customer designated premises until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or access tandem to a different trunk group (the "final" group) to a second customer designated premises. The customer shall specify the last trunk CCS desired for the high usage group. It is provided in suitably equipped end office or access tandem switches. It is available with Feature Groups C and D.

(M) Trunk Access Limitation

This option provides for the routing of originating 900 service calls to a specified number of transmission paths in a trunk group, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which could not be completed over the subset of transmission paths in the trunk group, i.e., the choked calls, would be routed to reorder tone. It is provided in all Telephone Company electronic end offices and where available in electromechanical end offices. It is available with Feature Groups C and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(N) Call Gaping Arrangement

This option, provided in suitably equipped end office switches, provides for the routing of originating calls to 900 service to be switched in the end office to all transmission paths in a trunk group at a prescribed rate of flow, e.g., one call every five seconds, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which are denied access by this feature, i.e., the choked calls, would be routed to a no- circuit announcement. It is provided in selected Feature Group D equipped end offices and is available only with Feature Group D.

(O) This option allows for Feature Group D end offices or access tandem switches equipped for International Direct Distance Dialing to be arranged to forward the international calls of one or more international carriers to the customer (i.e., the Telephone Company is able to route originating international calls to a customer other than the one designated by the end user either through presubscription or 101XXXX dialing). This arrangement requires provision of written verification to the Telephone Company that the customer is authorized to forward such calls. The written verification must be in the form of a letter of agency authorizing the customer to order the option on behalf of the international carrier. This option is only provided at Telephone Company end offices or access tandems equipped for International Direct Distance Dialing and is available only with Feature Group D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(P) Band Advance Arrangement for Use with Special Access Utilized in the Provision of WATS or WATS-Type Services

This option, which is provided in association with two or more Special Access Service groups, provides for the automatic overflow of terminating calls to a second Special Access Service group, when the first group has exceeded its call capacity. This option is available with Feature Groups A, B, C and D.

(Q) End Office End User Line Service Screening/ for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides the ability to verify that an end user has dialed a called party address (by screening the called NPA and/or NXX on the basis of geographical bands selected by the Telephone Company) which is in accordance with that end user's service agreement with the customer, e.g., WATS. This option is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices which are designated as WATS Serving Offices. It is available with Feature Groups C and D.

(R) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides the ability to sequentially access one of two or more Special Access Services utilized in the provision of WATS services (e.g., 800/888/877 Service Special Access services) in the terminating direction, when the hunting number of the Special Access Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B, C and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(S) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available Special Access Services utilized in the provision of WATS or WATS-type Services in the hunt group. Where available, this feature is only provided in Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B, C and D.

(T) Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides an arrangement, for an individual Special Access Service utilized in the provision of WATS or WATS-type services within a multiline hunt or uniform call distribution group, that provides access to that Special Access Service within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed, without hunting to the next idle number. Where available, this feature is only provided in Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B, C and D.

(U) Digital Switched 56 Service

This option provides for a connection between a customer's premise and a suitably equipped end user's premise which uses end office switching and facilities capable of transmitting digital data up to 56 Kilobits per second. Digital Switched 56 Service is only available in appropriately provisioned Feature Group D office as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(V) Calling Party Number (CPN)

This feature provides for the automatic transmission of the calling party's ten-digit telephone number to the customer's premises for originating calls. The ten digit telephone number consists of the NPA plus the seven-digit telephone number, which may or may not be the same as the calling station's charge number. The specific protocol for CPN is contained in Technical Reference TR-TSV-000905. The ten digit telephone number will be coded as presented, or restricted via a "privacy indicator" for delivery to the called end user. This feature is available only where facilities exist with Feature Group D service when SS7 is specified.

(W) Charge Number (CN)

This feature provides for the automatic transmission of the ten-digit billing number of the calling station number and originating line information. This feature is equivalent to the Automatic Number Identification (ANI) feature available with FGD with MF signaling. The specific protocol for CN is contained in Technical Reference TR-TSV-000905. This feature is available only where facilities exist with Feature Group D service when SS7 is specified.

(X) Carrier Selection Parameter (CSP)

This feature provides for the automatic transmission of a signaling indicator which signifies to the customer whether the call being processed originated from a presubscribed end user of that customer. If the line was presubscribed, the indicator will signify if the end user did or did not dial 101XXXX. The specific protocol for CSP is contained in Technical Reference TR-TSV-000905. This feature is available only where facilities exist with Feature Group D service when SS7 is specified.

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(Y) Multifrequency Address Signaling (MF)

This feature, available with FGB, FGC and FGD, provides for the transmission of number information and control signals, e.g., number address signals and automatic number identification between the end office switching systems and the customer's premises (in either direction). Multifrequency signaling arrangements make use of pairs of frequencies out of a group of six frequencies. Specific information transmitted is dependent upon feature group and call type, i.e., POTS, coin or operator. This feature is not available in combination with SS7 signaling.

(Z) Signaling System 7 Signaling (SS7)

This feature provides common channel out-of-band transmission of address and supervisory SS7 protocol signaling information between Telephone Company designated Signaling Point (SP) of Service Switching Point (SSP) locations and the customer's Signaling Point of Interface (SPOI). The signaling information is transmitted over facilities provided with the Common Channel Signaling/Signaling System 7 Interconnection Service and is available with FGD. SS7 Signaling Switched Access Service will be provided in accordance with the SS7 interconnect specification contained in Technical Reference TR-TSV-000905.

6.10.2 Transport Termination Nonchargeable Optional Features

(A) Rotary Dial Station Signaling

This option provides for the transmission of called party address signaling from rotary dial stations to the customer designated premises for originating calls. This option is provided in the form of a type of Transport Termination. It is available with Feature Group B, only on a directly trunked basis.

(B) Operator Trunk - Coin Non-Coin or Combined Coin and Non-Coin

This option may be ordered to provide coin, non-coin, or combined coin and non-coin operation. It is available only with Feature Group C and is provided in electronic end offices and other Telephone Company end offices where equipment is available. It is provided as a trunk type of Transport Termination.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.2 Transport Termination Nonchargeable Optional Features (Cont'd)

(B) Operator Trunk - Coin Non-Coin or Combined Coin and Non-Coin (Cont'd)

Coin, Non-Coin

This arrangement provides for initial coin return control, except in the case of non-coin, and routing of 0+, 0-, 1+, 01+ or 011+. Because operator assisted coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option. This arrangement is normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's automated operator services systems, rather than the customer's manual cord boards.

Combined Coin and Non-Coin:

When so equipped, the ANI optional feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for coinless public stations, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

(C) Operator Trunk - Full Feature

This option provides the initial coin return control function to the customer's operator. It is available with Feature Group D and is provided as a trunk type for Transport Termination. This option is unavailable in conjunction with SS7 out-of-band signaling.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.3 Other Non-Chargeable Optional Features

(A) Interim NXX Translation

This service is an originating offering utilizing trunk side Switched Access Service and provides a customer identification function based on the dialed SAC and NXX code.

For example, when an or an 1+900+NXX-XXXX call is originated by an end user, the Telephone Company will perform the customer identification function based on the dialed digits to determine the customer location to which the call is to be routed. If the call originates from an end office switch not equipped to provide the customer identification function, the call will be routed to an office at which the function is available. Once customer identification has been established, the call will be routed to that customer. Calls originating from an end office switch at which the customer identification function is performed, but to which the customer has not ordered Interim NXX Translation, will be blocked. Calls to a 900 number from coin telephones, 0+, 0-, 101XXXX, Inmate Service, Hotel/Motel Service and calling card calls will be blocked.

The manner in which Interim NXX Translation is provided is dependent on the status of the end office from which the service is provided (i.e., equipped with equal access capabilities or not equipped with equal access capabilities). When Interim NXX Translation is provided from an end office not equipped with equal access capabilities, it will be provided in conjunction with FGC Switched Access Service.

6. Switched Access Service (Cont'd)

6.10 Chargeable and Nonchargeable Optional Features (Cont'd)

6.10.4 Chargeable Optional Features

A. 800/888/877 Data Base Access Service

800/888/877 Data Base Access Service is provided with FGC or FGD switched access service. When a 1+800/888/877+NXX-XXXX call is originated by an end user, the Telephone Company will utilize the Signaling System 7 (SS7) network t o query an 800/888/877 data base to perform the identification function. The call will then be routed to the identified customer over FGC or FGD switched access.

The manner in which 800/888/877 data base access service is provided is dependent on the availability of SS7 service at the end office from which the service is provided as outlined following;

- When 800/888/877 data base access service originates at an end office equipped with Service Switching Point (SSP) capability for querying centralized data bases, all such service will be provisioned from that end office.

- 800/888/877 data base access service originates at an end office not equipped with SSP customer identification capability, the 800/888/877 call will be delivered to the access tandem on which the end office is homed and which is equipped with the SSP feature to query centralized data bases.

- Query charges as set forth in 17.2.2 following are in addition to those charges applicable for the Feature Group C or Feature Group D switched access service.

B. Carrier Identification Parameter (CIP)

This feature enables customers to consolidate trunk groups to provide Equal Access connections for the carrier and its reseller carriers over one trunk group. The Carrier Identification Parameter (CIP) software delivers the Carrier Identification Code (CIC) in the initial address message (IAM) from an originating local exchange network on Feature Group D (FGD), SS7-supported calls. These calls include CIP for FGD, 700, 900+NXX & 800/888/877 Database type calls. Presubscribed carrier information in CIP will be used for normal 1+ presubscribed calls. This enables the information to be sent in the forward direction to the transit network indicating the transit network selected by the originating subscriber. This feature is offered on a per-carrier, per-trunk basis, see Section 17.2.2 for rates.

ACCESS SERVICE

7. Special Access Service

7.1 General

Special Access Service provides a transmission path to directly connect an IC terminal location and an end user premises {1}, two IC terminal locations, an IC terminal location and a Hub or two end users premises. Special Access Service includes all exchange access not utilizing Telephone Company end office switches. This type of Access Service is used, for example, by ICs for the provision of private line service.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate. The specific types of services (e.g., Narrowband, Voice Grade, Wideband Digital) provided under Special Access Service are described in Section 7.2 following.

7.1.1 Rate Categories

There are four basic rate categories which apply to Special Access Service:

- Access Connection
- Channel Mileage
- Features and Functions
- Special Access Line

Unless specifically stated otherwise, each of the rate categories will apply for each Special Access Service provided to an IC.

{1} Telephone Company Centrex CO-like switches are considered to be end users premises for purposes of this tariff.

ACCESS SERVICE

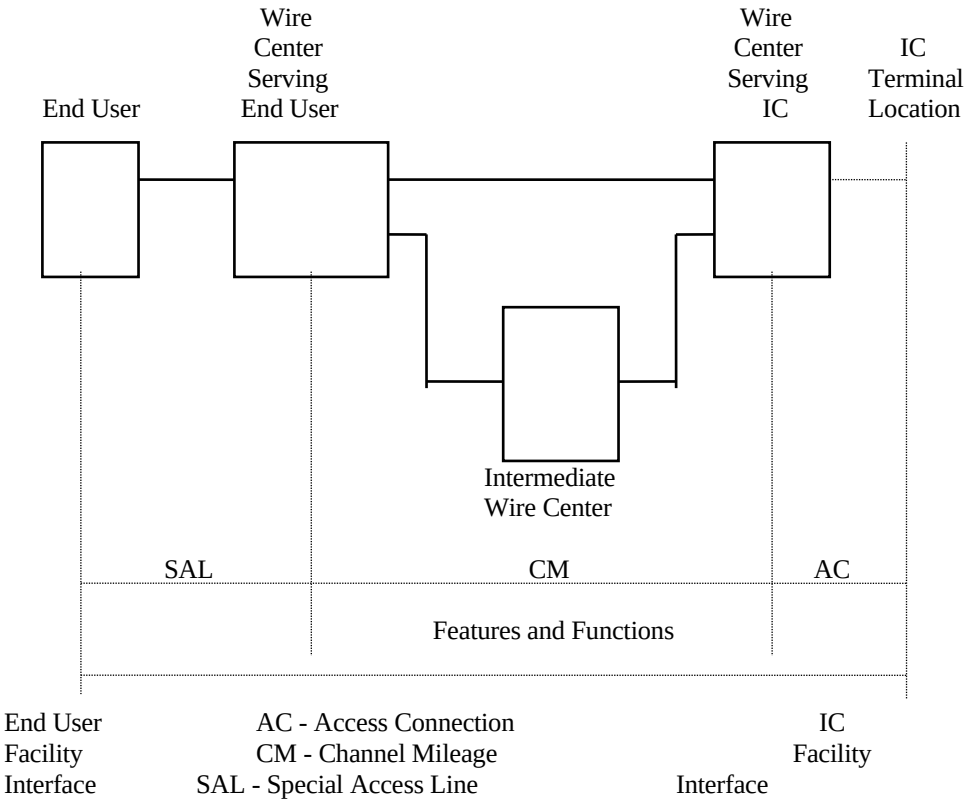
7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Rate Categories (Cont'd)

The following diagram depicts a generic view of the components of Special Access Service and the manner in which the components are combined to provide a complete Access Service.

SPECIAL ACCESS SERVICE



ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Rate Categories (Cont'd)

(A) Access Connection

This rate category provides a channel between the IC terminal location and the wire center serving the IC terminal location. This rate category varies by type of facility.

(B) Channel Mileage

This rate category provides the actual physical transmission facilities between (1) an IC terminal location serving wire center and the end user serving wire center, (2) an IC terminal location serving wire center and a Hub, and (3) a Hub and the end user serving wire center. The facilities may be either analog or digital. This rate category has a fixed rate portion plus is distance sensitive and varies by type of facility.

(C) Features and Functions

This rate category provides available facility interface combinations (including signaling), Hub functions (i.e., bridging and multiplexing) and optional features or functions that improve the quality or utility of a service to meet specific communications requirements. In addition, there is a separate charge for Voice Grade Performance which is also included in this rate category. The Voice Grade Performance charge applies for all Voice Grade Services (i.e., VG1-3, 5-10) ordered by the IC.

(D) Special Access Line

This rate category provides a channel between the wire center serving the end user premises and the end user premises. This rate category varies by type of facility.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Facility Interface (FI) Combinations

When ordering Special Access Service, the IC must specify the facility interface (FI) that is desired for the service ordered. The FI defines the technical characteristics associated with the type of signaling and type of facilities presented for connection to the Access Service at both the IC terminal location and the end user premises.

The FI's specified for the IC terminal location and the end user premises may be asymmetrical or symmetrical. However, only certain combinations are technically possible. Therefore, for purposes of this tariff, FIs are being described in terms of available combinations for all services. These combinations are set forth in Section 7.2 following.

7.1.3 Optional Features and Function

Optional features and functions may be added to a service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific facilities, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of facilities. Although the facilities necessary to perform a specified function may be installed at various locations along the path of the service, including the premises of the end user, they will be charged for as a single rate element. Examples of features or functions that are available include, but are not limited to, the following:

- Conditioning
- Transfer Arrangement
- Automatic Protection Switching

Rates for each of the available features and functions are set forth in Section 17.3.3 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.4 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

(A) Two-Point Service

A two-point service is a channel which is provided to connect two locations. The locations connected may be:

- An IC terminal location and an end user premises, whether provided direct or through a Telephone Company designated facility hub
- An IC terminal location and a hub
- Two IC terminal locations
- Two end user premises

All Special Access Services may be provided as two-point service.

(B) Multipoint Service

A multipoint service is a channel that is provided to connect three or more locations. The locations connected may be:

- an IC terminal location and two or more end user premises
- all IC terminal locations
- all end users premises
- multiple IC terminal locations and multiple end user premises.

Only certain types of Special Access Service are provided as multipoint services. These are so designated in the Technical Service Descriptions set forth in Section 7.2.1 and Section 7.2.2 following. Multipoint Service is available with a maximum of three mid-links in tandem. The specific number of bridges required for such services will be determined by the Telephone Company.

Multipoint service is provided in the following manner:

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.4 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

- The Telephone Company will designate serving wire centers where bridging (by service type) is available. These serving wire centers are referred to as Hubs.

- The IC will specify the bridging serving wire center (i.e., Hub), selected from the Telephone Company list of available locations.

- Service will be priced as provided.

- Access Connection from the designated IC terminal location to IC serving wire center. (Additional IC terminal locations will be treated as end user premises.)

- Channel Mileage from the IC serving wire center to the bridging serving wire center (may also be end user serving wire center.)

- Appropriate Facility Interface Combination (per end user premises bridged) and bridging equipment charge. The facility interfaces at the end user premises do not have to be the same at each end user premises on a multipoint service, but all must work in combination with a common IC terminal location facility interface. The rates to be applied at the IC terminal location are those for the facility interface combination with the highest rates at the initial installation of service.

- Channel Mileage from the bridging serving wire center to the end user serving wire center, if required.

- Special Access Line from the end user wire center to end user premises (per end user location).

- Special Access Surcharge (per end user premises).

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

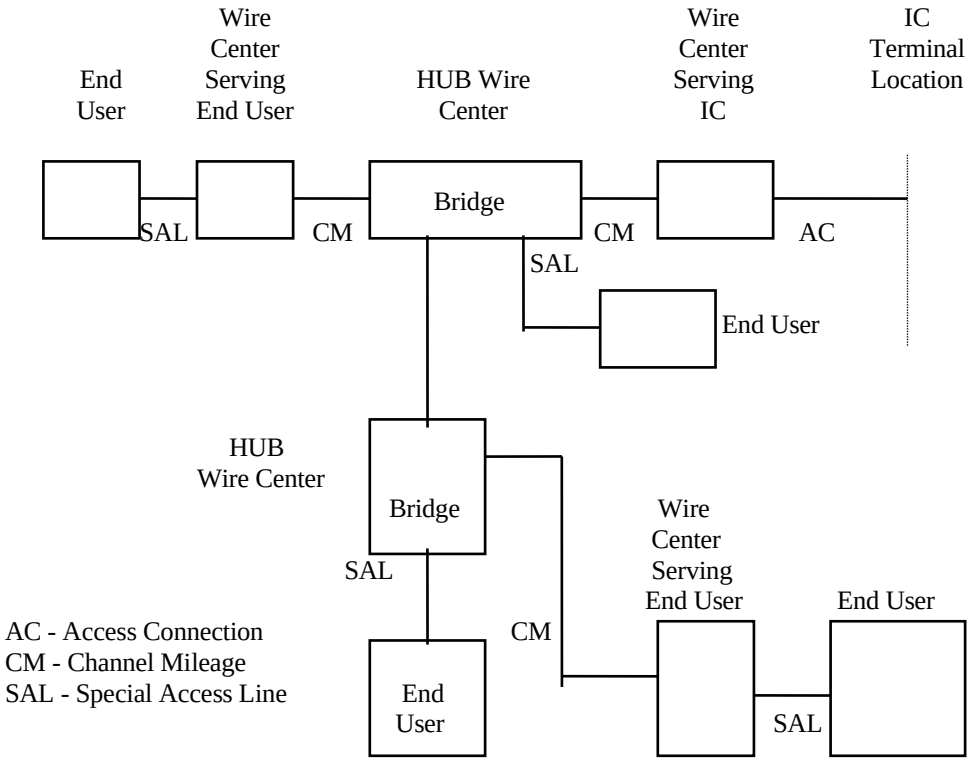
7.1.4 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

Features and Functions

- Voice Grade Performance
- Conditioning

MULTIPOINT SERVICE CONFIGURATION



ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.4 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

As each additional leg is added to an existing multipoint service, additional Channel Mileage, an end user facility interface, a Special Access Line and a Special Access Service Surcharge will be charged to the IC as required. If another bridge is connected, additional Channel Mileage, end user facility interface(s), Special Access Line(s) and Special Access Service Surcharge will be charged to the IC as required.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.5 Alternate Use

Alternate Use occurs when an IC uses a service for different types of transmission at different times. The IC may transfer from one type of operation to another at will, but only one type of transmission can be used at a time.

The Telephone Company will review each request for alternate use on an individual case basis. If it agrees to allow the alternate use, the arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 12., Specialized Service or Arrangements. The IC will pay the stated tariff rates for the Access Service rate elements ordered (i.e., Access Connection, Channel Mileage, Facility Interface Combination and Special Access Line).

7.1.6 Special Facilities Routing

An IC may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in Section 11 following.

7.1.7 Design Layout Report

The Telephone Company will provide to the IC the make-up of the facilities and services provided under this tariff as Special Access to aid the IC in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the IC at no charge.

7.1.8 Acceptance Testing

At no additional charge the Telephone Company will, at the IC's request, cooperatively test, at the time of installation, the following parameters:

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.8 Acceptance Testing (Cont'd)

For Voice Grade (VG) Services 1, 2, 3, 6, 7, 8, 9 and 10: loss, 3-tone slope, DC continuity and operational signaling. When the Access Connection provides a four-wire voice transmission interface and the network interface provides two-wire voice transmission, (i.e., there is a four-wire to two-wire conversion in Channel Mileage) balance (equal level echo path loss) may also be tested. Additionally, C-notched noise tests will be provided on VG 6, 7, 8, 9 and 10.

All other Access Services will be tested to the performance parameters specified for the individual services.

If acceptance tests are not started within 30 minutes after the scheduled appointed time for such tests, as negotiated between the Telephone Company and the IC, additional charges will apply, as set forth in Section 13.2.6(B) following.

7.1.9 Ordering Options and Conditions

There are two ordering options available to an IC in the provision of Special Access Service. These are:

- Access Order
- Planned Facilities Order

These options are set forth in detail in Section 5 preceding, as are the conditions under which the options may be elected. Cancellation charges associated with these options are also included in Section 5 preceding.

Ordering, rating and billing of Special Access Services where more than one Exchange Telephone Company is involved will apply as set forth in Section 2.4.7 preceding.

7.1.10 Jurisdictional Report Requirements

When an IC orders Special Access Service for both interstate and intrastate use, the IC is responsible for providing reports as set forth in Section 2.3.15 preceding. Charges will be apportioned in accordance with these reports.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service

Special Access Service may be either analog or digital. Analog services are differentiated by spectrum and bandwidth. Digital services are differentiated by bit rate. There are five major categories of analog service and three digital services. These are:

- Analog: Narrowband
  Voice Grade
  Program Audio
  Wideband

- Digital: Wideband
  Digital Data
  High Capacity

Each of these are further broken down into a number of subcategories.

This section includes the technical service descriptions for each type of analog and digital service provided, typical applications for which each type of service can be used, the optional features or functions available with specific services, transmission performances and the available facility interface (FI) combinations with which service can be provided. The facility interface codes are described in Section 7.3 following.

The Telephone Company will maintain existing transmission performance on service configurations installed prior January 1, 1984. All service configurations installed after January 1, 1984 will conform to the transmission performance standards contained in this tariff, except as follows. Where local facility conditions cannot support the transmission performance standards contained in this tariff, transmission standards that can be supported will be uniformly applied to all ICs.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services

(A) Narrowband Services

(1) Narrowband 1 (NB1) Special Access Service

(a) Description

Special Access Service NB1 provides a channel for a balanced metallic pair between an IC terminal location and an end user premises. Service will be provided only where appropriate metallic facilities are available. Signal transfer rates up to 30 baud will be accommodated.

(b) Illustrative Applications

Special Access Service NB1 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Protective Alarm (Direct Wire)
- Wire Pair Facility

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(1) Narrowband 1 (NB1) Special Access Service (Cont'd)

(c) Optional Features

Bridging: provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a second end user location.

Customer requiring a four-wire metallic facility must buy two NB1 services.

(d) Transmission Performance

Leakage

Remedial action will be initiated when the DC resistance between the conductors in each customer pair or the resistance between individual serving pair conductors and ground is observed to be less than 30,000 ohms.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(1) Narrowband 1 (NB1) Special Access Service (Cont'd)

(e) Available Facility Interface Combinations

IC	End User
2DC8-3	2DC8-3

(2) Narrowband 2 (NB2) Special Access Service

(a) Description

Special Access Service NB2 provides a channel for simplex low-frequency, narrowband electrical transmission which may be provided to a number of end user premises (up to a maximum of 25) to form a series of electrical paths from the IC terminal location to each end user premises. The electrical path is capable of transporting the three-level signal used in the McCulloh signaling system at speeds up to 15 bps.

Service will be provided only where appropriate metallic or other facilities are available.

(b) Illustration Application

Special Access Service NB2 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Protective Alarm (McCulloh)

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(2) Narrowband 2 (NB2) Special Access Service (Cont'd)

(c) Optional Feature

- Series Bridging: up to 25 end user premises.

(d) Transmission Performance

- Leakage

Remedial action will be initiated when the DC resistance between the conductors in each serving pair and the resistance between individual serving pair conductors and ground is observed to be less than 30,000 ohms.

(e) Available Facility Interface Combinations

IC	End User	IC	End User
2DC8-2	2DC8-1	4AH5-B {2}	2DC8-1
2DC8-1	2DC8-2	4AH5-B {2}	2DC8-2
4DS9- {1}	2DC8-1	4AH6-C {2}	2DC8-2
4DS9- {1}	2DC8-2	4AH6-D {2}	2DC8-1
4AH6-D{2}	2DC8-2	4AH6-C {2}	2DC8-1

(3) Narrowband 3 (NB3) Special Access Service

Reserved For Future Use.

{1} See Section 7.3.3 following for explanation.
{2} Available only to ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(4) Narrowband 4 (NB4) Special Access Service

(a) Description

Special Access Service NB4 provides a channel for transmission of asynchronous transitions between two current levels at rates up to 75 baud between an IC terminal location and an end user premises. This service is furnished for half-duplex or duplex operation on a two point or multipoint configuration. Neither direct current continuity of this service nor the capability to transport continuously varying alternating current is assured.

(b) Illustrative Applications

Special Access Service NB4 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Telegraph Grade Facilities
- Entrance Facility - Telegraph Grade
- Extension Service - Telegraph Grade
- Teletypewriter Service
- Alarm Circuits
- Control/Remote Metering - Telegraph Grade

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(4) Narrowband 4 (NB4) Special Access Service (Cont'd)

(c) Optional Feature

- Central office bridging capability.

(d) Transmission Performance

- Telegraph Distortion Remedial action will be initiated whenever the telegraph distortion is observed to exceed 9%.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(4) Narrowband 4 (NB4) Special Access Service (Cont'd)

(e) Available Facility Interface Combinations

IC	End User	IC	End User
2TT2-2	2TT2-2	4DS9- {2}	2TT2-2
2TT2-3	2TT2-2	2DS9- {2}	4TT2-2
2DB2-10	2TT2-2	4DS9- {2}	2TT2-6
2DB2-43 {1}	2TT2-2	4DS9- {2}	4TT2-6
4DB2-10	2TT2-2	4AH5-B{3}	2TT2-2
2DB2-43 {1}	2TT2-2	4AH5-B{3}	4TT2-2
2TT2-3	2TT2-2	4AH5-B{3}	2TT2-6
2DB2-10	4TT2-2	4AH5-B{3}	4TT2-6
2DB2-43 {1}	4TT2-2	4AH6-C{3}	2TT2-2
4TT2-2	4TT2-2	4AH6-C{3}	4TT2-2
4DB2-10	4TT2-2	4AH6-C{3}	2TT2-6
4DB2-43 {1}	4TT2-2	4AH6-C{3}	4TT2-6
2TT2-6	4TT2-2	4AH6-D{3}	2TT2-2
2DB2-43 {1}	4TT2-2	4AH6-D{3}	4TT2-2
2DB2-10	4TT2-2	4AH6-D{3}	2TTA-6
4DB2-43 {1}	2TT2-6	4AH6-D{3}	4TT2-6
2DB2-43	2TT2-6		
4TT2-6	2TT2-6		
4DB2-43 {1}	2TT2-6		

{1} Supplemental Channel Assignment information required.
{2} See Section 7.3.3 following for explanation.
{3} Available only to ICs selecting the multiplexed 4-wire High Capacity analog facility interface option of the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(5) Narrowband 5 (NB5) Special Access Service

(a) Description

Special Access Service NB5 provides a channel for transmission of asynchronous transitions between two current levels at rates up to 150 baud between an IC terminal location and an end user premises. This service is furnished for half-duplex or duplex operation on a two-point or multipoint configuration. Neither direct current continuity of this service nor the capability to transport continuously varying alternating currents is assured.

(b) Illustrative Applications

Special Access Service NB5 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Extension Service - Telegraph Grade
- Teletypewriter Service
- Alarm Circuits
- Control/Remote Metering - Telegraph Grade

(c) Optional Feature

- Central office bridging capability.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(5) Narrowband 5 (NB5) Special Access Service (Cont'd)

(d) Transmission Performance

- Telegraph Distortion

Remedial action will be initiated whenever the telegraph distortion is observed to exceed 12%.

(e) Available Facility Interface Combinations

IC	End User	IC	End User
2DB2-10	10IA2	4DS9- {2}	10IA2
4DB2-10	10IA2	4AH5-B{3}	10IA2
2DB2-43 {1}	10IA2	4AH6-C{3}	10IA2
4DB2-43 {1}	10IA2	4AH6-D{3}	10IA2

{1} Supplemental Channel assignment information required.
{2} See Section 7.3.3 following for explanation.
{3} Available only to ICs selecting the 4-wire multiplexed High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(6) Narrowband 6 (NB6) Special Access Service

(a) Description

Special Access Service NB6 provides a channel that is engineered for binary signals at rates up to 75 baud, 20 ± 1 or 62.5 ± 2.5 milliamperes neutral signal. The Telephone Company has the option of providing 20 or 62.5 milliamperes and will notify the customer of the current level to be supplied. The Telephone Company will supply the line voltage and provide for the current adjustment. The maximum open circuit voltage across the send data leads at the interface will not exceed 270 volts. This service is furnished for half duplex or duplex operation on a two-point or multi-point configuration.

(b) Illustrative Applications

Special Access Service NB6 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Teletypewriter Service
- Data Service
- Supervisory Control
- Miscellaneous Signaling

(c) Optional Feature

- Central office bridging capability

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(6) Narrowband 6 (NB6) Special Access Service (Cont'd)

(d) Transmission Performance

- Telegraph Distortion

The terminal equipment shall deliver no more than 8% telegraph distortion and shall be capable of processing received data signals with up to 35% telegraph distortion.

(e) Facility Interface Combinations

End User	End User
2TT2	4TT2
2TT2	2TT2
4TT2	4TT2

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(7) Narrowband 7 (NB7) Special Access Service

(a) Description

Special Access Service NB7 provides a channel that is engineered for binary signals at rates up to 150 baud. This service is furnished for half duplex or duplex operation on a two-point or multi-point configuration. Neither direct current continuity of this service nor the capability to transport continuously varying alternating currents is assured. Only one station termination is allowed from a single access line.

(b) Illustrative Applications

Special Access Service NB7 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Teletypewriter Service
- Data Service
- Supervisory Control
- Miscellaneous Signaling

(c) Optional Feature

- Central Office bridging capability

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(A) Narrowband Services (Cont'd)

(7) Narrowband 7 (NB7) Special Access Service (Cont'd)

(d) Transmission Performance

- Telegraph Distortion

The terminal equipment shall deliver not more than 5% telegraph distortion and shall be capable of processing received data signals with up to 40% telegraph distortion.

(e) Facility Interface Combinations

End User	End User
10IA2	10IA2

(B) Voice Grade Services

There are 23 types of Voice Grade Service, each having a different transmission performance. The transmission performances determine the applications that the various types of Voice Grade Service can be used for. VG1 through VG3 services are intended for voice application only. VG5 through VG10 are suitable for voiceband data for voice/data applications. The VG 1-3 and 5-10 are provided primarily as end-link designs for interexchange carriers private line services. VG14-23 and 26-29 are provided primarily as end-user to end-user private line services for IntraLATA service.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(1) Voice Grade 1 (VG1) Special Access Service

(a) Description

Special Access Service VG1 provides a channel for voice frequency transmission capacity. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an end user premises. The transmission interface can be either two-wire or four-wire at both the IC terminal location and the end user premises. Various interface options are available. This service will support effective two-wire or effective four-wire transmission.

(b) Illustrative Applications

Special Access Service VG1 is suitable for use as part of the facilities used to provide intrastate telecommunications services such as:

- Voice Grade Facility
- Alarm Circuits

(c) Optional Feature

- Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(1) Voice Grade 1 (VG1) Special Access Service (Cont'd)

(d) Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

Channel Mileage (mi)	Limit (dBrnCO) {1} Type V1	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

- Echo Control

Echo Control, identified as Equal Level Echo Path Loss at four-wire interfaces or Return Loss at two-wire interfaces, and expressed as Echo return Loss and Singing Return Loss, at either the end user premises or IC terminal location shall be not less than the following limits:

	Echo Return Loss	Singing Return Loss
Standard Return Loss Interface (Return Loss)	5 dB	2.5 dB
Four-Wire Interface (Equal Level Echo Path Loss)	16 dB	11 dB

{1} Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(1) Voice Grade 1 (VG1) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Echo Control (Cont'd)

Effective Four-Wire Transmission

(Two-wire interface at the end user premises.)

	Echo Return Loss	Singing Return Loss
Two-Wire Interface (Return Loss)	24 dB	18 dB
Four-Wire Interface (Equal Level Echo Path Loss) (For Centrex application 2 dB pad is "in").	20 dB	14 dB

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(1) Voice Grade 1 (VG1) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Standard RL	Improved RL
ERL 5 dB	ERL 20 dB
SRL 2.5 dB	SRL 13.5 dB

- Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed ± 4.0 dB.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(1) Voice Grade 1 (VG1) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -2.0 dB and +10.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss). The attenuation distortion between 504 Hz and 2504 Hz shall be within -2.0 dB and +8.0 dB and between 304 Hz and 3004 Hz shall be within -3.0 dB and +12.0 dB.

(e) Available Facility Interface Combinations

VG1 is available only with specific facility interface combinations as set forth in Section 7.2.1(B)(30).

(2) Voice Grade 2 (VG2) Special Access Service

(a) Description

Special Access Service VG2 provides a channel for voice frequency transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an end user premises. The transmission interface at the end user premises is two-wire or four-wire and the IC terminal location interface is four-wire. This service will support effective two-wire or effective four-wire transmission.

(b) Illustrative Applications

Special Access Service VG2 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(2) Voice Grade 2 (VG2) Special Access Service (Cont'd)

(b) Illustrative Applications (Cont'd)

- Centrex C.O. Line
- Concentrator Identifier Trunk
- Extension Service
- Off-Premises Intercommunications Line
- Private Line Voice Circuit
- Paging Circuit
- Foreign Exchange Line (closed end)
- Centrex Station Line - Off Premises
- Off-Premises Extension
- Off-Premises PBX Station Line

(c) Optional Features

- Central office bridging capability.
- Improved return loss for effective two-wire transmission at the end user premises.
- IC specified end user premises receive level within a range acceptable to the Telephone Company on effective four-wire transmission.
- Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(2) Voice Grade 2 (VG2) Special Access Service (Cont'd)

(d) Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

Channel Mileage (mi)	Limit (dBrnCO) {1} Type V1	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

- Echo Control

Echo Control, identified as Equal Level Echo Path Loss at four-wire interfaces or Return Loss at two-wire interfaces, for both Echo Return Loss and Singing Return Loss, at either the end user premises or IC terminal location shall be not less than the following limits:

Effective Two-Wire Transmission

(Four-wire interface at the IC terminal location and two-wire interface at the user premises).

{1} Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(2) Voice Grade 2 (VG2) Special Access Service (Cont'd)

(d) Transmission Performance

- Echo Control (Cont'd)

	Echo Return Loss	Singing Return Loss
Standard Return Loss (at Two-Wire Interface)	5 dB	2.5 dB
Improved Return Loss (at Two-wire Interface)	13 dB	8 dB
Four-Wire Interface (Equal Level Echo Path Loss) (For Centrex Application, 2 dB pad is "in")	16 dB	11 dB

Effective Four-Wire Transmission

(Two-wire interface at the end user premises.)

	Echo Return Loss	Singing Return Loss
Two-wire Interface (Return Loss)	24 dB	18 dB
Four-wire Interface (Equal Level Echo Path Loss)	20 dB	14 dB

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(2) Voice Grade 2 (VG2) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Improved Return Loss (Cont'd)

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Standard RL	Improved RL
ERL 5 dB	ERL 20 dB
SRL 2.5 dB	SRL 13.5 dB

- Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed ± 1.5 dB.

- Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +4.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss). The attenuation distortion between 304 Hz and 3004 Hz shall be within -1.0 dB and +5.0 dB.

(e) Available Facility Interface Combinations

VG2 is available only with specific facility interface combinations as set forth in Section 7.2.1(B)(30).

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(3) Voice Grade 3 (VG3) Special Access Service

(a) Description

Special Access Service VG3 provides a channel for voice frequency transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an end user premises. The transmission interface at the end user premises is two-wire or four-wire and the IC terminal location interface is four-wire. This service will support effective two-wire or four-wire transmission.

(b) Illustrative Applications

Special Access Service VG3 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Foreign Exchange Trunk (Closed End)
- Alternate Use Service
- PBX/CTX Tie Trunks
- SSN Access Line
- SSN Station Line
- SSN Network Line
- SSN Tie Trunk
- Station and Premises Connecting Facilities

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(3) Voice Grade 3 (VG3) Special Access Service

(c) Optional Features

- Improved returned loss for effective two-wire transmission at the end user premises.

- IC specified end user premises receive level within a range acceptable to the Telephone Company on effective four-wire transmission.

- Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(3) Voice Grade 3 (VG3) Special Access Service (Cont'd)

(d) Transmission Performance

- C-Message Noise

The C-Message noise shall be less than:

Channel Mileage (mi)	Limit (dBrnCO) {1}	
	Type V1	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

- Echo Control

Echo Control, identified as Equal Level Echo Path Loss at four-wire interfaces or Return Loss at two-wire interfaces, for both Echo Return Loss and Singing Return Loss, at either the end user premises or IC terminal location shall be not less than the following limits:

Effective Two-Wire Transmission

(Four-wire interface at the IC terminal location, two-wire interface at the end user premises).

{1} Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(3) Voice Grade 3 (VG3) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Echo Control (Cont'd)

Effective Two-Wire Transmission (Cont'd)

	Echo Return Loss	Singing Return Loss
Standard Return Loss (at Two-Wire Interface)	5 dB	2.5 dB
Improved Return Loss (at Two-Wire Interface)	13 dB	8 dB
Four-Wire Interface (Equal Level Echo Path Loss) (For Centrex application, 2 dB pad is "in".)	16 dB	11 dB

Effective Four-Wire Transmission

(Two-wire interface at the end user premises).

	Echo Return Loss	Singing Return Loss
Two-Wire Interface (Return Loss)	24 dB	18 dB
Four-Wire Interface (Equal Level Echo Path Loss)	20 dB	14 dB

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(3) Voice Grade 3 (VG3) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Standard RL	Improved RL
ERL 5 dB	ERL 20 dB
SRL 2.5 dB	SRL 13.5 dB

- Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed ± 1.5 dB.

- Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +3.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss). The attenuation distortion between 304 Hz and 3004 Hz shall be within -1.0 dB and +5.0 dB.

(e) Available Facility Interface Combinations

VG3 is available only with specific facility interface combinations as set forth in Section 7.2.1(B)(30).

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(4) Voice Grade 4 (VG4) Special Access Service

Reserved For Future Use.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(5) Voice Grade 5 (VG5) Special Access Service

(a) Description

Special Access Service VG5 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an end user premises. The transmission interface can be either two-wire or four-wire at the end user premises and the IC terminal location. This service will support effective two-wire for four-wire transmission.

(b) Illustrative Applications

Special Access Service VG5 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Protective Alarm
- DATAPHONE Select-A-Station

(c) Optional Features

- C-Conditioning.
- Central office bridging capability.
- Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(5) Voice Grade 5 (VG5) Special Access Service (Cont'd)

(d) Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

Channel Mileage (mi)	Limit (dBrnCO) {1}	
	Type V1	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

- Echo Control

Echo Control, identified as Equal Level Echo Path Loss at four-wire interfaces or Return Loss at two-wire interfaces, for both Echo Return Loss and Singing Return Loss, at either the end user premises or IC terminal location shall be not less than the following limits:

Effective Two-Wire Transmission

(Four-wire interface at the IC terminal location and two-wire interface at the end user premises).

{1} Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(5) Voice Grade 5 (VG5) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Echo Control (Cont'd)

Effective Two-Wire Transmission (Cont'd)

	Echo Return Loss	Singing Return Loss
Standard Return Loss (at Two-Wire Interface)	5 dB	2.5 dB
Four-Wire Interface (Equal Level Echo Path Loss) (For Centrex application, 2 dB pad is "in".)	16 dB	11 dB

Effective Four-Wire Transmission

(Two-wire interface at the end user premises).

	Echo Return Loss	Singing Return Loss
Two-Wire Interface (Return Loss)	24 dB	18 dB
Four-Wire Interface (Equal Level Echo Path Loss)	20 dB	14 dB

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(5) Voice Grade 5 (VG5) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Standard RL	Improved RL
ERL 5 dB	ERL 20 dB
SRL 2.5 dB	SRL 13.5 dB

- Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed ± 1.5 dB.

- Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +5.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss).

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(5) Voice Grade 5 (VG5) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Signal-to-C Notch Noise

  The Signal-to-C Notch noise ratio shall not be less than 26 dB.

- Impulse Noise

  The number of impulse noise counts exceeding a threshold of 67 dBrnCO in 15 minutes shall be less than 15.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(5) Voice Grade 5 (VG5) Special Access Service (Cont'd)

(e) Available Facility Interface Combinations

VG5 is available only with specific facility interface combinations set forth in Section 7.2.1(B)(30).

(6) Voice Grade 6 (VG6) Special Access Service

(a) Description

Special Access Service VG6 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an end user premises. The transmission interface is four-wire at both the IC terminal location and the end user premises. This service will support effective four-wire transmission.

(b) Illustrative Applications

Special Access Service VG6 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Private Line Data Circuit
- Control/Remote Metering

(c) Optional Features

- C-Conditioning
- DA-Conditioning.
- Central office bridging capability.
- Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.
- Central office multiplexing.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(6) Voice Grade 6 (VG6) Special Access Service

(d) Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

Channel Mileage (mi)	Limit (dBrnCO) {1} Type V1	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Standard RL	Improved RL
ERL 5 dB	ERL 20 dB
SRL 2.5 dB	SRL 13.5 dB

- Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed ± 1.5 dB.

{1} Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(6) Voice Grade 6 (VG6) Special Access Service

(d) Transmission Performance (Cont'd)

- Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +4.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss). The attenuation distortion between 504 Hz and 2504 Hz shall be within -1.0 dB and +3.0 dB with reference to the loss at 1004 Hz. The attenuation distortion between 304 Hz and 3004 Hz shall be within -1.0 dB and +5.0 dB.

- Signal-to-C Notch Noise

The Signal-to-C Notch noise ratio shall not be less than 30 dB.

- Envelope Delay Distortion

The Envelope Delay Distortion (EDD) shall not exceed 700 microseconds between 800 and 2600 Hz.

- Impulse Noise

The number of impulse noise counts exceeding a threshold of 67 dBrnCO in 15 minutes shall be less than 15.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(6) Voice Grade 6 (VG6) Special Access Service

(d) Transmission Performance (Cont'd)

- Intermodulation Distortion

The intermodulation distortion based upon the four-tone method shall be such that R2 is not less than 33 dB and R3 not less than 40 dB.

- Phase Jitter

The phase jitter over 20-300 Hz shall not exceed 5 degree peak-to-peak and over 4-300 Hz shall not exceed 10 degrees peak-to-peak.

- Frequency Shift

The frequency shift shall not exceed ± 1 Hz.

(e) Available Facility Interface Combinations

VG6 is available only with specific facility interface combinations as set forth in Section 7.2.1(B)(14).

(7) Voice Grade 7 (VG7) Special Access Service

(a) Description

Special Access Service VG7 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an end user premises. The transmission interface at the end user premises is two-wire or four-wire and the IC terminal location interface is four-wire.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(7) Voice Grade 7 (VG7) Special Access Service (Cont'd)

(a) Description (Cont'd)

This service will support effective two-wire or four-wire transmission.

(b) Illustrative Applications

Special Access Service VG7 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Centrex CO Station Line Off-Premises Station
- PBX Off-Premises Station
- Foreign Exchange Trunk (Closed End)
- Foreign Exchange Line (Closed End)
- PBX Tie Trunks
- SSN Tie Trunks
- Voice Grade Data Connecting Facility

(c) Optional Features

- Improved return loss for effective two-wire transmission at the end user premises.
- C-Conditioning
- DA-Conditioning
- IC specified end user premises receive level within a range acceptable to the Telephone Company on effective four-wire transmission.
- Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(7) Voice Grade 7 (VG7) Special Access Service (Cont'd)

(d) Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

Channel Mileage (mi)	Limit (dBrnCO) {1}	
	Type V1	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

- Echo Control

Echo Control, identified as Equal Level Echo Path Loss at four-wire interfaces or Return Loss at two-wire interfaces, for both Echo Return Loss and Singing Return Loss, at either the end user premises or IC terminal location shall be not less than the following limits:

{1} Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(7) Voice Grade 7 (VG7) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

Effective Two-Wire Transmission

(Four-wire interface at the IC terminal location and two-wire interface at the end user premises).

	Echo Return Loss	Singing Return Loss
Standard Return Loss (at Two-Wire Interface)	5 dB	2.5 dB
Improved Return Loss (at Two-Wire Interface)	13 dB	8 dB
Four-Wire Interface (Equal Level Echo Path Loss) (For Centrex application, 2 dB pad is "in".)	16 dB	11 dB

Effective Four-Wire Transmission

(Two-wire interface at the end user premises).

	Echo Return Loss	Singing Return Loss
Two-Wire Interface (Return Loss)	24 dB	18 dB
Four-Wire Interface (Equal Level Echo Path Loss)	20 dB	14 dB

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(7) Voice Grade 7 (VG7) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Standard RL	Improved RL
ERL 5 dB	ERL 20 dB
SRL 2.5 dB	SRL 13.5 dB

- Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed ± 1.5 dB.

- Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +2.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss). The attenuation distortion between 304 Hz and 3004 Hz shall be within -1.0 dB and +5.0 dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(7) Voice Grade 7 (VG7) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Signal-to-C Notch Noise

The Signal-to-C Notch noise ratio shall not be less than 30 dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(7) Voice Grade 7 (VG7) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Envelope Delay Distortion

  The Envelope Delay Distortion (EDD) shall not exceed 700 microseconds between 800 and 2600 Hz.

- Impulse Noise

  The number of impulse noise counts exceeding a threshold of 67 dBrnCO in 15 minutes shall be less than 15.

- Intermodulation Distortion

  The intermodulation distortion based upon the four tone method shall be such that R2 is not less than 33 dB and R3 not less than 40 dB.

- Phase Jitter

  The phase jitter over 20-300 Hz shall not exceed 5 degrees peak-to-peak and over 4-300 Hz shall not exceed 10 degrees peak-to-peak.

- Frequency Shift

  The frequency shift shall not exceed ± 1 Hz.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(7) Voice Grade 7 (VG7) Special Access Service (Cont'd)

(e) Available Facility Interface Combinations

VG7 is available only with specific facility interface combinations as set forth in Section 7.2.1(B)(14).

(8) Voice Grade 8 (VG8) Special Access Service

(a) Description

Special Access Service VG8 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an end user premises. The standard transmission interface at the end user premises is two-wire or four-wire and the IC terminal location interface is four-wire. This service will support effective four-wire transmission.

(b) Illustrative Applications

Special Access Service VG8 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- SSN Access Line
- SSN Station Line

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(8) Voice Grade 8 (VG8) Special Access Service

(c) Optional Features

- C-Conditioning.

- IC specified end user premises receive level within a range acceptable to the Telephone Company for effective four-wire transmission.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(8) Voice Grade 8 (VG8) Special Access Service

(c) Optional Features (Cont'd)

- Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.

(d) Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

Channel Mileage (mi)	Limit (dBrnCO) {1}	
	Type V1	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

{1} Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(8) Voice Grade 8 (VG8) Special Access Service

(d) Transmission Performance

- Echo Control

Echo Control, identified as Equal Level Echo Path Loss at four-wire interfaces or Return Loss at two-wire interfaces, and expressed as Echo Return Loss and Singing Return Loss, at either the end user premises or IC terminal location shall be not less than the following limits:

{1} Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(8) Voice Grade 8 (VG8) Special Access Service

(d) Transmission Performance (Cont'd)

- Effective Four-Wire Transmission

(Two-wire interface at the end user premises).

	Echo Return Loss	Singing Return Loss
Two-Wire Interface (Return Loss)	24 dB	18 dB
Four-Wire Interface (Equal Level Echo Path Loss)	20 dB	14 dB

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Standard RL	Improved RL
ERL 5 dB	ERL 20 dB
SRL 2.5 dB	SRL 13.5 dB

- Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed ± 1.5 dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(8) Voice Grade 8 (VG8) Special Access Service

(d) Transmission Performance (Cont'd)

- Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +2.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss). The attenuation distortion between 304 Hz and 3004 Hz shall be within -1.0 dB and +5.0 dB.

- Signal-to-C Notch Noise

The Signal-to-C Notch noise ratio shall not be less than 32 dB.

- Envelope Delay Distortion

The Envelope Delay Distortion (EDD) shall not exceed 700 microseconds between 800 and 2600 Hz.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(8) Voice Grade 8 (VG8) Special Access Service

(d) Transmission Performance (Cont'd)

- Impulse Noise

  The number of impulse noise counts exceeding a threshold of 67 dBrnCO in 15 minutes shall be less than 15.

- Intermodulation Distortion

  The intermodulation distortion based upon the four tone method shall be such that R2 is not less than 45 dB and R3 not less than 48 dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(8) Voice Grade 8 (VG8) Special Access Service

(d) Transmission Performance (Cont'd)

- Phase Jitter

The phase jitter over 20-300 Hz shall not exceed 4 degrees peak-to-peak and over 4-300 Hz shall not exceed 9 degrees peak-to-peak.

- Frequency Shift

The frequency shift shall not exceed ± 1 Hz.

(e) Available Facility Interface Combinations

VG8 is available only with specific facility interface combinations as set forth in Section 7.2.1(B)(14).

(9) Voice Grade 9 (VG9) Special Access Service

(a) Description

Special Access Service VG9 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and another IC terminal location or a Telephone Company Central office which serves as an SSN Switch. The transmission interface at the end user premises or Telephone Company Central Office is four-wire and the IC terminal location interface is four-wire. This service will support effective four-wire transmission.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(9) Voice Grade 9 (VG9) Special Access Service (Cont'd)

(b) Illustrative Application

Special Access Service VG9 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as SSN Network Trunks.

(c) Optional Features

- C-Conditioning.
- IC specified end user premises receive level within a range acceptable to the Telephone Company for effective four-wire transmission.
- Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(9) Voice Grade 9 (VG9) Special Access Service (Cont'd)

(d) Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

Channel Mileage (mi)	Limit (dBrnCO) {1}	
	Type V1	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

{1} Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(9) Voice Grade 9 (VG9) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Standard RL	Improved RL
ERL 5 dB	ERL 20 dB
SRL 2.5 dB	SRL 13.5 dB

- Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed ± 1.5 dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(9) Voice Grade 9 (VG9) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +2.0 dB with reference to the loss at 1004 Hz and between 304 Hz and 3004 Hz shall be within -3.0 dB and +12.0 dB. (minus equals less loss, plus equals more loss).

- Signal-to-C Notch Noise

The Signal-to-C Notch noise ratio shall not be less than 34 dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(9) Voice Grade 9 (VG9) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Envelope Delay Distortion

  The Envelope Delay Distortion (EDD) shall not exceed 700 microseconds between 800 and 2600 Hz.

- Impulse Noise

  The number of impulse noise counts exceeding a threshold of 67 dBrnCO in 15 minutes shall be less than 15.

- Intermodulation Distortion

  The intermodulation distortion based upon the four tone method shall be such that R2 is not less than 50 dB and R3 not less than 54 dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(9) Voice Grade 9 (VG9) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Phase Jitter

  The phase jitter over 20-300 Hz shall not exceed 3 degrees peak-to-peak and over 4-300 Hz shall not exceed 8 degrees peak-to-peak.

- Frequency Shift

  The frequency shift shall not exceed ± 1 Hz.

(e) Available Facility Interface Combinations

VG9 is available only with specific facility interface combinations as set forth in Section 7.2.1(B)(14).

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(10) Voice Grade 10 (VG10) Special Access Service

(a) Description

Special Access Service VG10 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an end user premises. The standard transmission interface at the end user premises and the IC terminal location is four-wire. This service will support effective four-wire transmission.

(b) Illustrative Applications

Special Access Service VG10 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Digital Data Off-Net Extension
- Voice Grade Data Facility

(c) Optional Features

- Central office bridging capability.
- Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.
- C-Conditioning
- DA-Conditioning

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(10) Voice Grade 10 (VG10) Special Access Service

(d) Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

Channel Mileage (mi)	Limit (dBrnCO) {1}	
	Type V1	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Standard RL	Improved RL
ERL 5 dB	ERL 20 dB
SRL 2.5 dB	SRL 13.5 dB

{1} Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(10) Voice Grade 10 (VG10) Special Access Service

(d) Transmission Performance

- Loss Variation

  The long term loss variation from the nominal 1004 Hz EML shall not exceed ± 4 dB.

- Attenuation Distortion

  The attenuation distortion between 404 Hz and 2804 Hz shall be within -2.0 dB and +10.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss). The attenuation distortion between 504 Hz and 2504 Hz shall be within -2.0 dB and +8.0 dB with reference to the loss at 1004 Hz. The attenuation distortion between 304 Hz and 3004 Hz shall be within -3.0 dB and +12.0 dB.

- Signal-to-C Notch Noise

  The Signal-to-C Notch noise ratio shall not be less than 24 dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(10) Voice Grade 10 (VG10) Special Access Service

(d) Transmission Performance (Cont'd)

- Envelope Delay Distortion

  The Envelope Delay Distortion (EDD) shall not exceed 1750 microseconds between 800 and 2600 Hz.

- Impulse Noise

  The number of impulse noise counts exceeding a threshold of 71 dBrnCO in 15 minutes shall be less than 15.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(10) Voice Grade 10 (VG10) Special Access Service

(d) Transmission Performance (Cont'd)

- Intermodulation Distortion

The intermodulation distortion based upon the four-tone method shall be such that R2 is not less than 27 dB and R3 not less than 32 dB.

- Phase Jitter

The phase jitter over 20-300 Hz shall not exceed 10 degrees peak-to-peak and over 4-300 Hz shall not exceed 15 degrees peak-to-peak.

- Frequency Shift

The frequency shift shall not exceed ± 3 Hz.

(e) Available Facility Interface Combinations

VG10 is available only with specific facility interface combinations as set forth in Section 7.2.1(B)(14).

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(11) Voice Grade 11 (VG11) Special Access Service

Reserved for Future Use.

(12) Voice Grade 12 (VG12) Special Access Service

Reserved for Future Use.

(13) Voice Grade 13 (VG13) Special Access Service

Reserved for Future Use.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

The following table shows the available facility interface (FI) combinations and the Voice Grade Services with which they may be ordered.

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4AB2	4AC2		X							
4AB3	4AC2		X							
4AB2	2AC2		X							
4AB3	2AC2		X							
2AB2	2AC2		X							
2AB3	2AC2		X							
4AB2	4SF2		X							
4AB3	4SF2		X							
4AH6-D {1}	4AC2		X							
4AH6-D {1}	2AC2		X							
4AH6-C {1}	4AC2		X							
4AH6-C {1}	2AC2		X							
4AH5-B {1}	4AC2		X							
4AH5-B {1}	2AC2		X							
4AH6-D {1}	6DA2					X				X
4AH6-C {1}	6DA2					X				X
4AH5-B {1}	6DA2					X				X
4AH6-D {1}	4DE2				X					
4AH6-C {1}	4DE2				X					
4AH5-B {1}	4DE2				X					

{1} Available only to ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

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7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4AH6-D {1}	4DX3								X	
4AH6-C {1}	4DX3								X	
4AH5-B {1}	4DX3								X	
4AH5-D {1}	4DX2								X	
2AH6-C {1}	4DX2								X	
2AH6-B {1}	4DX2								X	
4AH6-D {1}	9DY2			X			X	X		
4AH6-D {1}	9DY3			X			X	X		
4AH6-D {1}	6DY2			X			X	X		
4AH6-D {1}	6DY3			X			X	X		
4AH6-D {1}	4DY2			X			X	X		
4AH6-D {1}	2DY2			X			X	X		
4AH6-C {1}	9DY2			X			X	X		
4AH6-C {1}	9DY3			X			X	X		
4AH6-C {1}	6DY2			X			X	X		
4AH6-C {1}	6DY3			X			X	X		
4AH6-C {1}	4DY2			X			X	X		
4AH6-C {1}	2DY2			X			X	X		
4AH5-B {1}	9DY2			X			X	X		
4AH5-B {1}	9DY3			X			X	X		
4AH5-B {1}	6DY2			X			X	X		
4AH5-B {1}	6DY3			X			X	X		
4AH5-B {1}	4DY2			X			X	X		
4AH5-B {1}	2DY2			X			X	X		

{1} Available only to ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4AH6-D {1}	9EA2			X			X	X		
4AH6-D {1}	9EA3			X			X	X		
4AH6-D {1}	6EA2-E			X			X	X		
4AH6-D {1}	6EA2-M			X			X	X	X	
4AH6-D {1}	4EA2-E			X			X	X		
4AH6-D {1}	4EA2-M			X			X	X		
4AH6-C {1}	9EA2			X			X	X		
4AH6-C {1}	9EA3			X			X	X		
4AH6-C {1}	6EA2-E			X			X	X		
4AH6-C {1}	6EA2-M			X			X	X	X	
4AH6-C {1}	4EA2-E			X			X	X		
4AH6-C {1}	4EA2-M			X			X	X		
4AH5-B {1}	9EA2			X			X	X		
4AH5-B {1}	9EA3			X			X	X		
4AH5-B {1}	6EA2-E			X			X	X		
4AH5-B {1}	6EA2-M			X			X	X	X	
4AH5-B {1}	4EA2-E			X			X	X		
4AH5-B {1}	4EA2-M			X			X	X		
4AH6-D {1}	8EB2-E			X			X	X		
4AH6-D {1}	8EB2-M			X			X	X	X	
4AH6-D {1}	6EB2-E			X			X	X		
4AH6-D {1}	6EB2-M			X			X	X		
4AH6-C {1}	8EB2-E			X			X	X		
4AH6-C {1}	8EB2-M			X			X	X	X	

{1} Available only to ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4AH6-C {1}	6EB2-E			X			X	X		
4AH6-C {1}	6EB2-M			X			X	X		
4AH5-B {1}	8EB2-E			X			X	X		
4AH5-B {1}	8EB2-M			X			X	X	X	
4AH5-B {1}	6EB2-E			X			X	X		
4AH5-B {1}	6EB2-M			X			X	X		
4AH6-D {1}	2GO2	X								
4AH6-C {1}	2GO2	X								
4AH5-B {1}	2GO2	X								
4AH6-D {1}	6GS2			X			X			
4AH6-D {1}	4GS2			X			X			
4AH6-D {1}	2GS3			X			X			
4AH6-D {1}	2GS2	X		X			X			
4AH6-C {1}	6GS2			X			X			

{1} Available only to ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4AH6-C {1}	4GS2			X			X			
4AH6-C {1}	2GS3			X			X			
4AH6-C {1}	2GS2	X		X			X			
4AH5-B {1}	6GS2			X			X			
4AH5-B {1}	4GS2			X			X			
4AH5-B {1}	2GS3			X			X			
4AH5-B {1}	2GS2	X		X			X			
4AH6-D {1}	2LA2		X				X			
4AH6-C {1}	2LA2		X				X			
4AH5-B {1}	2LA2		X				X			
4AH6-D {1}	2LB2		X				X			
4AH6-C {1}	2LB2		X				X			
4AH5-B {1}	2LB2		X				X			
4AH6-D {1}	2LC2		X				X			
4AH6-C {1}	2LC2		X				X			
4AH5-B {1}	2LC2		X				X			
4AH6-D {1}	2LO3		X				X			
4AH6-D {1}	2LO2	X								
4AH6-C {1}	2LO3		X				X			
4AH6-C {1}	2LO2	X								
4AH5-B {1}	2LO3		X				X			
4AH5-B {1}	2LO2	X								

{1} Available only to ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4AH6-D {1}	4LR2		X							
4AH6-D {1}	2LR2		X							
4AH6-C {1}	4LR2		X							
4AH6-C {1}	2LR2		X							
4AH5-B {1}	4LR2		X							
4AH5-B {1}	2LR2		X							
4AH6-D {1}	6LS2		X	X			X			
4AH6-D {1}	4LS2		X	X			X			
4AH6-D {1}	2LS2	X	X	X			X	X		
4AH6-D {1}	2LS3		X	X			X			
4AH6-C {1}	6LS2		X	X			X			
4AH6-C {1}	4LS2		X	X			X			
4AH6-C {1}	2LS2	X	X	X			X	X		
4AH6-C {1}	2LS3		X	X			X			
4AH5-B {1}	6LS2		X	X			X			
4AH5-B {1}	4LS2		X	X			X			
4AH5-B {1}	2LS2	X	X	X			X	X		
4AH5-B {1}	2LS3	X	X	X			X			
4AH6-D {1}	4NO2	X	X		X		X		X	
4AH6-D {1}	2NO2	X	X		X		X			
4AH6-C {1}	4NO2	X	X		X	X	X		X	
4AH6-C {1}	2NO2	X	X		X		X			
4AH5-B {1}	4NO2	X	X		X	X	X		X	
4AH5-B {1}	2NO2	X	X		X		X			

{1} Available only to ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4AH6-D {1}	4RV2-T			X			X			
4AH6-D {1}	2RV2-T			X			X			
4AH6-C {1}	4RV2-T			X			X			
4AH6-C {1}	2RV2-T			X			X			
4AH5-B {1}	4RV2-T			X			X			
4AH5-B {1}	2RV2-T			X			X			
4AH6-D {1}	4SF2		X	X			X	X	X	
4AH6-C {1}	4SF2		X	X			X	X	X	
4AH5-B {1}	4SF2								X	
4AH6-D {1}	4SF3								X	
4AH6-C {1}	4SF3								X	
4AH5-B {1}	4SF3								X	
6DA2 {1}	6DA2									X
6DA2 {1}	4DA2									X
4DA2 {1}	6DA2									X
4DA2 {1}	4DA2									X
4DB2 {1}	6DA2						X			X
4DB2 {1}	4NO2					X				
4DD3 {1}	4DE2				X					
2DD3 {1}	2DE2				X					

{1} Available only to ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4DS9- {1}	4AC2		X							
4DS9- {1}	2AC2		X							
4DS9- {1}	6DA2					X				X
4DS9- {1}	4DE2				X					
4DS9- {1}	4DX3								X	
4DS9- {1}	4DX2								X	
4DS9- {1}	9DY3			X			X	X		
4DS9- {1}	9DY2			X			X	X		
4DS9- {1}	6DY3			X			X	X		
4DS9- {1}	6DY2			X			X	X		
4DS9- {1}	4DY2			X			X	X		
4DS9- {1}	2DY2			X			X	X		
4DS9- {1}	9EA2			X			X	X		
4DS9- {1}	9EA3			X			X	X		
4DS9- {1}	6EA2-E			X			X	X		
4DS9- {1}	6EA2-M			X			X	X	X	
4DS9- {1}	4EA2-E			X			X	X		
4DS9- {1}	4EA2-M			X			X	X		
4DS9- {1}	8EB2-E			X			X	X		
4DS9- {1}	8EB2-M			X			X	X	X	
4DS9- {1}	6EB2-E			X			X	X		
4DS9- {1}	6EB2-M			X			X	X		
4DS9- {1}	2GO2	X								

{1} See 7.3.3 following for explanation.

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7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4DS9- {1}	6GS2			X			X			
4DS9- {1}	4GS2			X			X			
4DS9- {1}	2GS2	X		X			X			
4DS9- {1}	2GS3			X			X			
4DS9- {1}	2LA2		X				X			
4DS9- {1}	2LB2		X				X			
4DS9- {1}	2LC2		X				X			
4DS9- {1}	2LO2	X								
4DS9- {1}	2LO3		X				X			
4DS9- {1}	4LR2		X							
4DS9- {1}	2LR2		X							
4DS9- {1}	6LS2		X	X			X			
4DS9- {1}	4LS2		X	X			X			
4DS9- {1}	2LS2	X	X	X			X	X		
4DS9- {1}	2LS3		X	X			X			
4DS9- {1}	4NO2	X	X		X	X	X		X	
4DS9- {1}	2NO2	X	X		X		X			
4DS9- {1}	4RV2-T			X			X			
4DS9- {1}	2RV2-T			X			X			
4DS9- {1}	4SF2		X	X			X	X	X	
4DS9- {1}	4SF3								X	

{1} See 7.3.3 following for explanation.

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7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4DX2	4DX2								X	
4DX3	4DX2								X	
4DX2	4DX3								X	
4DX3	4DX3								X	
6DX2	9DY3			X			X	X		
6DX2	9DY2			X			X	X		
6DX2	6DY3			X			X	X		
6DX2	6DY2			X			X	X		
6DX2	4DY2			X			X	X		
6DX2	2DY2			X			X	X		
4DX2	9DY3			X			X	X		
4DX3	9DY3			X			X	X		
4DX2	9DY2			X			X	X		
4DX3	9DY2			X			X	X		
4DX2	6DY3			X			X	X		
4DX3	6DY3			X			X	X		
4DX2	6DY2			X			X	X		
4DX3	6DY2			X			X	X		
4DX2	4DY2			X			X	X		
4DX3	4DY2			X			X	X		
4DX2	2DY2			X			X	X		
4DX3	2DY2			X			X	X		
6DX2	9EA3			X			X	X		
6DX2	9EA2			X			X	X		
6DX2	6EA2-E			X			X	X		
6DX2	6EA2-M			X			X	X		
6DX2	4EA2-E			X			X	X		
6DX2	4EA2-M			X			X	X		

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4DX2	9EA2			X			X	X		
4DX3	9EA2			X			X	X		
4DX2	9EA3			X			X	X		
4DX3	9EA3			X			X	X		
4DX2	6EA2-E			X			X	X		
4DX3	6EA2-E			X			X	X		
4DX2	6EA2-M			X			X	X	X	
4DX3	6EA2-M			X			X	X	X	
4DX2	4EA2-E			X			X	X		
4DX3	4EA2-E			X			X	X		
4DX2	4EA2-M			X			X	X		
4DX3	4EA2-M			X			X	X		
6DX2	8EB2-E			X			X	X		
6DX2	8EB2-M			X			X	X		
6DX2	6EB2-E			X			X	X		
6DX2	6EB2-M			X			X	X		
4DX2	8EB2-E			X			X	X		
4DX2	8EB2-M			X			X	X	X	
4DX3	8EB2-E			X			X	X		
4DX3	8EB2-M			X			X	X	X	
4DX2	6EB2-E			X			X	X		
4DX2	6EB2-M			X			X	X		
4DX3	6EB2-E			X			X	X		
4DX3	6EB2-M			X			X	X		
4DX2	2LA2		X				X			
4DX3	2LA2		X				X			
2DX3	2LA2		X				X			
4DX2	2LB2		X				X			
4DX3	2LB2		X				X			
4DX3	2LB2		X				X			

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7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4DX2	2LC2		X				X			
4DX3	2LC2		X				X			
2DX3	2LC2		X				X			
4DX2	2LO3		X				X			
4DX3	2LO3		X				X			
2DX3	2LO3		X				X			
4DX2	6LS2		X	X			X			
4DX3	6LS2		X	X			X			
4DX3	4LS2		X	X			X			
4DX2	4LS2		X	X			X			
4DX3	2LS3		X	X			X			
4DX2	2LS3		X	X			X			
4DX3	2LS2		X	X			X	X		
4DX2	2LS2		X	X			X	X		
2DX3	2LS2		X	X			X			
2DX3	2LS3		X	X			X			
4DX3	4RV2-T			X			X			
4DX2	4RV2-T			X			X			
4DX3	2RV2-T			X			X			
4DX2	2RV2-T			X			X			
6DX2	4SF2			X			X	X		
4DX2	4SF2		X	X			X	X	X	
4DX3	4SF2		X	X			X	X	X	
4DX2	4SF3								X	
4DX3	4SF3								X	
6EA2-E	4AC2		X							
6EA2-M	4AC2		X							
6EA2-E	2AC2		X							
6EA2-M	2AC2		X							

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7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
6EA2-E	4DX2								X	
6EA2-M	4DX2								X	
6EA2-E	4DX3								X	
6EA2-M	4DX3								X	
6EA2-E	9DY3			X			X	X		
6EA2-E	9DY2			X			X	X		
6EA2-E	6DY3			X			X	X		
6EA2-E	6DY2			X			X	X		
6EA2-E	4DY2			X			X	X		
6EA2-M	9DY3			X			X	X		
6EA2-M	9DY2			X			X	X		
6EA2-M	6DY3			X			X	X		
6EA2-M	6DY2			X			X	X		
6EA2-M	4DY2			X			X	X		
6EA2-M	2DY2			X			X	X		
6EA2-E	2DY2			X			X	X		
4EA3-E	9DY3			X			X			
4EA3-E	9DY2			X			X			
4EA3-E	6DY3			X			X			
4EA3-E	6DY2			X			X			
4EA3-E	4DY2			X			X			
4EA3-E	2DY2			X			X			

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7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
6EA2-E	9EA2			X			X	X		
6EA2-E	9EA3			X			X	X		
6EA2-M	9EA2			X			X	X		
6EA2-M	9EA3			X			X	X		
6EA2-E	6EA2-E			X			X	X		
6EA2-E	6EA2-M			X			X	X	X	
6EA2-M	6EA2-E			X			X	X		
6EA2-M	6EA2-M			X			X	X	X	
6EA2-E	4EA2-E			X			X	X		
6EA2-E	4EA2-M			X			X	X		
6EA2-M	4EA2-E			X			X	X		
6EA2-M	4EA2-M			X			X	X		
4EA3-E	6EA2-E			X			X			
4EA3-E	6EA2-M			X			X			
4EA3-E	4EA2-E			X			X			
4EA3-E	4EA2-M			X			X			
4EA3-E	9EA2			X			X			
4EA3-E	9EA3			X			X			
6EA2-E	8EB2-E			X			X	X		
6EA2-E	8EB2-M			X			X	X	X	
6EA2-E	6EB2-E			X			X	X		
6EA2-E	6EB2-M			X			X	X		
6EA2-M	8EB2-E			X			X	X		
6EA2-M	8EB2-M			X			X	X	X	
6EB3-E	6EB2-E			X			X			
6EB3-E	6EB2-M			X			X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
6EA2-M	6EB2-E			X			X	X		
6EA2-M	6EB2-M			X			X	X		
4EA3-E	8EB2-E			X			X			
4EA3-E	8EB2-M			X			X			
4EA3-E	6EB2-E			X			X			
4EA3-E	6EB2-M			X			X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
6EA2-E	2LA2		X				X			
6EA2-M	2LA2		X				X			
6EA2-E	2LB2		X				X			
6EA2-M	2LB2		X				X			
6EA2-E	2LC2		X				X			
6EA2-M	2LC2		X				X			
6EA2-E	2LO3		X				X			
6EA2-M	2LO3		X				X			
6EA2-E	6LS2		X	X			X			
6EA2-M	6LS2		X	X			X			
6EA2-E	4LS2		X	X			X			
6EA2-M	4LS2		X	X			X			
6EA2-E	2LS2		X	X			X	X		
6EA2-M	2LS2		X	X			X	X		
6EA2-E	2LS3		X	X			X			
6EA2-M	2LS3		X	X			X			
6EA2-E	4RV2-T			X			X			
6EA2-M	4RV2-T			X			X			
6EA2-E	2RV2-T			X			X			
6EA2-M	2RV2-T			X			X			
6EA2-E	4SF3								X	
6EA2-M	4SF3								X	
6EA2-E	4SF2		X	X			X	X	X	
6EA2-M	4SF2		X	X			X	X	X	
4EA3-E	4SF2			X			X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
8EB2-E	4AC2		X							
8EB2-M	4AC2		X							
8EB2-E	2AC2		X							
8EB2-M	2AC2		X							
8EB2-E	4DX2								X	
8EB2-M	4DX2								X	
8EB2-E	4DX3								X	
8EB2-M	4DX3								X	
8EB2-E	9DY3			X			X	X		
8EB2-E	9DY2			X			X	X		
8EB2-E	6DY3			X			X	X		
8EB2-E	6DY2			X			X	X		
8EB2-E	4DY2			X			X	X		
8EB2-E	2DY2			X			X	X		
8EB2-M	9DY3			X			X	X		
8EB2-M	9DY2			X			X	X		
8EB2-M	6DY3			X			X	X		
8EB2-M	6DY2			X			X	X		
8EB2-M	4DY2			X			X	X		
8EB2-M	2DY2			X			X	X		
6EB3-E	9DY2			X			X			
6EB3-E	9DY3			X			X			
6EB3-E	6DY2			X			X			
6EB3-E	6DY3			X			X			
6EB3-E	2DY2			X			X			
6EB3-E	4DY2			X			X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
8EB2-E	9EA2			X			X	X		
8EB2-E	9EA3			X			X	X		
8EB2-M	9EA2			X			X	X		
8EB2-M	9EA3			X			X	X		
8EB2-E	6EA2-E			X			X	X		
8EB2-E	6EA2-M			X			X	X	X	
8EB2-M	6EA2-E			X			X	X		
8EB2-M	6EA2-M			X			X	X	X	
8EB2-E	4EA2-E			X			X	X		
8EB2-E	4EA2-M			X			X	X		
8EB2-M	4EA2-E			X			X	X		
8EB2-M	4EA2-M			X			X	X		
6EB3-E	9EA2			X			X			
6EB3-E	9EA3			X			X			
6EB3-E	6EA2-E			X			X			
6EB3-E	6EA2-M			X			X			
6EB3-E	4EA2-E			X			X			
6EB3-E	4EA2-M			X			X			
8EB2-E	8EB2-E			X			X	X		
8EB2-E	8EB2-M			X			X	X	X	
8EB2-M	8EB2-E			X			X	X		
8EB2-M	8EB2-M			X			X	X	X	
6EB2-E	8EB2-E			X			X			
6EB2-E	8EB2-M			X			X			
6EB2-M	8EB2-E			X			X			
6EB2-M	8EB2-M			X			X			
6EB3-E	8EB2-E			X			X			
6EB3-E	8EB2-M			X			X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
8EB2-E	2LA2		X				X			
8EB2-M	2LA2		X				X			
8EB2-E	2LB2		X				X			
8EB2-M	2LB2		X				X			
8EB2-E	2LC2		X				X			
8EB2-M	2LC2		X				X			
8EB2-E	2LO3		X				X			
8EB2-M	2LO3		X				X			
8EB2-E	6LS2		X	X			X			
8EB2-M	6LS2		X	X			X			
8EB2-E	4LS2		X	X			X			
8EB2-M	4LS2		X	X			X			
8EB2-E	2LS2		X	X			X	X		
8EB2-M	2LS2		X	X			X	X		
8EB2-E	2LS3		X	X			X			
8EB2-M	2LS3		X	X			X			
8EB2-E	4RV2-T			X			X			
8EB2-M	4RV2-T			X			X			
8EB2-E	2RV2-T			X			X			
8EB2-M	2RV2-T			X			X			
8EB2-E	4SF2		X	X			X	X	X	
8EB2-M	4SF2		X	X			X	X	X	
8EB2-E	4SF3			X					X	
8EB2-M	4SF3								X	
6EB3-E	4SF2			X			X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
8EC2	9DY2			X			X	X		
8EC2	9DY3			X			X	X		
8EC2	6DY2			X			X	X		
8EC2	6DY3			X			X	X		
8EC2	4DY2			X			X	X		
8EC2	2DY2			X			X	X		
8EC2	9EA2			X			X	X		
8EC2	9EA3			X			X	X		
8EC2	6EA2-E			X			X	X		
8EC2	6EA2-M			X			X	X		
8EC2	4EA2-E			X			X	X		
8EC2	4EA2-M			X			X	X		
8EC2	8EB2-E			X			X	X		
8EC2	8EB2-M			X			X	X		
8EC2	6EB2-E			X			X	X		
8EC2	6EB2-M			X			X	X		
8EC2	4SF2			X			X	X		
6EX2-A	6GS2			X			X			
6EX2-A	4GS2			X			X			
6EX2-A	2GS2			X			X			
6EX2-A	2GS3			X			X			
6EX2-B	2LA2		X	X			X			
6EX2-B	2LB2		X				X			
6EX2-B	2LC2		X				X			
6EX2-B	2LO2	X					X			
6EX2-B	2LO3		X				X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
6EX2-B	4LR2		X							
6EX2-B	2LR2		X							
6EX2-A	6LS2		X	X			X			
6EX2-A	4LS2		X	X			X			
6EX2-A	2LS2	X	X	X			X			
6EX2-A	2LS3		X	X			X			
6EX2-A	4SF2		X		X		X			
6EX2-B	4SF2		X							
6GO2	6GS2			X			X			
6GO2	4GS2			X			X			
6GO2	2GS2	X		X			X			
6GO2	2GS3			X			X			
4GO2	6GS2			X			X			
4GO3	6GS2			X			X			
4GO2	4GS2			X			X			
4GO3	4GS2			X			X			
4GO2	2GS2	X		X			X			
4GO2	2GS3			X			X			
4GO3	2GS2	X		X			X			
4GO3	2GS3			X			X			
2GO2	2GS2	X		X			X			
2GO3	2GS2	X		X			X			
2GO2	2GS3			X			X			
2GO3	2GS3			X			X			
6GO2	4SF2			X			X			
4GO2	4SF2			X			X			
4GO3	4SF2			X			X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
6GS2	2GO2	X								
4GS2	2GO2	X								
4GS3	2GO2	X								
2GS2	2GO2	X								
2GS3	2GO2	X								
6LO2	6LS2		X	X			X			
6LO2	4LS2		X	X			X			
6LO2	2LS2	X	X	X			X			
6LO2	2LS3		X	X			X			
4LO2	6LS2		X	X			X			
4LO2	4LS2		X	X			X			
4LO3	6LS2		X	X			X			
4LO3	4LS2		X	X			X			
4LO3	2LS3		X	X			X			
4LO3	2LS2	X	X	X			X			
4LO2	2LS2	X	X	X			X			
4LO2	2LS3		X	X			X			
2LO3	2LS3		X	X			X			
2LO3	2LS2	X	X	X			X	X		
2LO2	2LS2	X	X	X			X	X		
2LO2	2LS3		X	X			X			
6LO2	4SF2		X	X			X			
4LO2	4SF2		X	X			X			
4LO3	4SF2		X	X			X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4LR3	4LR2		X							
4LR3	2LR2		X							
4LR2	4LR2		X							
4LR2	2LR2		X							
2LR2	2LR2		X							
2LR3	2LR2		X							
4LR2	4SF2		X							
4LR3	4SF2		X							
6LS2	2LA2		X				X			
4LS2	2LA2		X				X			
4LS3	2LA2		X				X			
2LS2	2LA2		X				X			
2LS3	2LA2		X				X			
6LS2	2LB2		X				X			
4LS2	2LB2		X				X			
4LS3	2LB2		X				X			
2LS2	2LB2		X				X			
2LS3	2LB2		X				X			
6LS2	2LC2		X				X			
4LS2	2LC2		X				X			
4LS3	2LC2		X				X			
2LS2	2LC2		X				X			
2LS3	2LC2		X				X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
6LS2	2LO3		X				X			
6LS2	2LO2	X								
4LS2	2LO2	X								
4LS2	2LO3		X				X			
4LS3	2LO2	X								
4LS3	2LO3		X				X			
2LS2	2LO2	X								
2LS3	2LO2	X								
2LS2	2LO3		X				X			
2LS3	2LO3		X				X			
6LS2	4SF2		X							
4LS3	4SF2		X							
4NO2	6DA2					X				X
4NO2	4DA2					X				X
4NO2	2DA2					X				
4NO2	4NO2	X	X		X	X	X		X	
4NO2	2NO2	X	X		X		X			
2NO2	2NO2	X	X		X		X			
2NO3	2NO2	X	X		X		X			
4RV2-O	4RV2-T			X			X			
4RV2-O	2RV2-T			X			X			
4RV2-O	2RV2-T			X			X			
4RV2-O	4SF2			X			X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4SF2	4AC2	X								
4SF2	4AC2	X								
4SF3	4DX3								X	
4SF3	4DX2								X	
4SF2	4DX2								X	
4SF2	4DX3								X	
4SF3	9DY3			X			X	X		
4SF2	9DY2			X			X	X		
4SF3	9DY2			X			X	X		
4SF2	9DY3			X			X	X		
4SF3	6DY3			X			X	X		
4SF2	6DY2			X			X	X		
4SF2	6DY3			X			X	X		
4SF3	6DY2			X			X	X		
4SF2	4DY2			X			X	X		
4SF3	4DY2			X			X	X		
4SF3	2DY2			X			X	X		
4SF2	2DY2			X			X	X		

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4SF2	9EA2			X			X	X		
4SF3	9EA2			X			X	X		
4SF2	9EA3			X			X	X		
4SF3	9EA3			X			X	X		
4SF2	6EA2-E			X			X	X		
4SF2	6EA2-M			X			X	X	X	
4SF3	6EA2-E			X			X	X		
4SF3	6EA2-M			X			X	X	X	
4SF2	4EA2-E			X			X	X		
4SF2	4EA2-M			X			X	X		
4SF3	4EA2-E			X			X	X		
4SF3	4EA2-M			X			X	X		
4SF2	8EB2-E			X			X	X		
4SF2	8EB2-M			X			X	X	X	
4SF3	8EB2-E			X			X	X		
4SF3	8EB2-M			X			X	X	X	
4SF2	6EB2-E			X			X			
4SF2	6EB2-M			X			X			
4SF3	6EB2-E			X			X			
4SF3	6EB2-M			X			X			
4SF3	6GS2			X			X			
4SF2	6GS2			X			X			
4SF2	4GS2			X			X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4SF3	4GS2			X			X			
4SF2	2GS2	X		X			X			
4SF2	2GS3			X			X			
4SF3	2GS2	X		X			X			
4SF3	2GS3			X			X			
4SF2	2LA2		X				X			
4SF3	2LA2		X				X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4SF2	2LB2		X				X			
4SF3	2LB2		X				X			
4SF2	2LC2		X				X			
4SF3	2LC2		X					X		
4SF2	2LO3		X				X			
4SF2	2LO2	X								
4SF3	2LO2	X								
4SF3	2LO3		X				X			
4SF2	4LR2		X							
4SF2	2LR2		X							
4SF3	4LR2		X							
4SF3	2LR2		X							
4SF3	6LS2		X	X			X			
4SF2	6LS2		X	X			X			
4SF2	4LS2		X	X			X			
4SF3	4LS2		X	X			X			
4SF2	2LS2		X	X			X	X		
4SF2	2LS3		X	X			X			
4SF3	2LS2		X	X			X	X		
4SF3	2LS3		X	X			X			
4SF3	4RV2-T			X			X			
4SF2	4RV2-T			X			X			
4SF2	2RV2-T			X			X			

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(B) Voice Grade Services (Cont'd)

(14) Available Facility Interface (FI) Combinations

FI Combinations		Voice Grade Service (VG)								
IC	End User	1	2	3	5	6	7	8	9	10
4SF3	2RV2-T			X			X			
4SF3	4SF3								X	
4SF3	4SF2		X	X			X	X	X	
4SF2	4SF2		X	X			X	X	X	
4SF2	4SF3								X	

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services

(1) Program Audio 1 (AP1) Special Access Service

(a) Description

Special Access Service AP1 provides a channel with a nominal bandwidth from 200 to 3,500 Hz for the transmission of a complex signal voltage, such as speech or music, between an IC terminal location and an end user premises. Only one-way transmission is provided.

(b) Illustrative Application

Special Access Service AP1 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Wired Music

(c) Optional Features

- Gain Conditioning - control of 1004 Hz EML at initiation of service to 0 dB ± 0.5 dB.

- Central office bridging capability (wired music).

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(1) Program Audio 1 (AP1) Special Access Service (Cont'd)

(d) Transmission Performance

- Actual Measured Loss (AML)

When the service is initiated, the 1004 Hz AML will be less than 10.0 dB. With the addition of optional gain conditioning, the initial AML will be 0 ± 0.5 dB. Remedial action will be taken when the loss variation at 1004 Hz exceeds the initial AML by ± 4.0 dB.

- Gain/Frequency Distortion

Over the frequency band from 200 to 3,500 Hz, the gain at any frequency will be within the range from +3.0 dB to -10.0 dB with respect to the gain 1004 Hz.

- Signal-to-Idle Circuit Noise

The ratio of received 1004 Hz signal power to the C-message weighted idle circuit noise will be at least 65 dB. The received signal power level is determined by subtracting the channel AML from +18 dBm (the instantaneous peak signal level).

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

. (C) Program Audio Services (Cont'd)

. (1) Program Audio 1 (AP1) Special Access Service (Cont'd)

. (e) Available Facility Interface Combinations

IC	End User	IC	End User
2PG2-3	2PG2-3	2PG2-3	2PG2-3
4DS9-15E {1}	2PG2-3	4DS9-15E {1}	2PG1-3
4AH5-B {2}	2PG2-3	4AH5-B {2}	2PG1-3
4AH6-C {2}	2PG2-3	4AH6-C {2}	2PG1-3
4AH6-D {2}	2PG2-3	4AH6-D {2}	2PG1-3

. (2) Program Audio 2 (AP2) Special Access Service

. (a) Description

. Special Access Service AP2 provides a channel with a nominal bandwidth from 100 to 5,000 Hz for the transmission of a complex signal voltage, such as speech or music, between an IC terminal location and an end user premises. Only one-way transmission is provided.

{1} Available only to ICs selecting the multiplexed 4-wire DSX facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

{2} Available only to the ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(2) Program Audio 2 (AP2) Special Access Service (Cont'd)

(b) Illustrative Application

Special Access Service AP2 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Wired Music

(c) Optional Features

- Gain Conditioning - control of 1004 Hz AML at initiation of service to 0 dB ± 0.5 dB.

- Central office bridging capability (wired music).

(d) Transmission Performance

- Actual Measured Loss (AML)

When the service is initiated, the 1004 Hz AML will be less than 32 dB. With the addition of optional gain conditioning, the initial AML will be 0 ± 0.5 dB. Remedial action will be taken when the loss variation at 1004 Hz exceeds the initial AML by ± 4.0 dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

. (C) Program Audio Services (Cont'd)

. (2) Program Audio 2 (AP2) Special Access Service (Cont'd)

. (d) Transmission Performance (Cont'd)

. - Gain/Frequency Distortion

Over the frequency band from 100 to 5,000 Hz, the gain at any frequency will be 1.0 dB of the gain at 1004 Hz.

- Signal-to-Idle Circuit Noise

The ratio of received 1004 Hz signal power to the 15 kHz flat weighted idle circuit noise will be at least 64 dB. The received signal power level is determined by subtracting the channel AML from +18 dBm (the instantaneous peak signal level).

(e) Available Facility Interface Combinations

IC	End User	IC	End User
2PG2-3	2PG2-3	2PG2-3	2PG2-3
2PG2-5	2PG2-5	2PG2-5	2PG1-5
4DS9-15F {1}	2PG2-5	4DS9-15F {1}	2PG1-5
4AH5-B {2}	2PG2-5	4AH5-B {2}	2PG1-5
4AH6-C {2}	2PG2-5	4AH6-C {2}	2PG1-5
4AH6-D {2}	2PG2-5	4AH6--D {2}	2PG1-5

{1} Available only to ICs selecting the multiplexed 4-wire DSX facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

{2} Available only to the ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data. Channels 5 and 6 are assigned for AP2.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(3) Program Audio 3 (AP3) Special Access Service

(a) Description

Special Access Service AP3 provides a channel with a nominal bandwidth from 50 to 8,000 Hz for the transmission of a complex signal voltage, such as speech or music, between an IC terminal location and an end user premises. Only one-way transmission is provided.

(b) Illustrative Application

Special Access Service AP3 suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Wired Music

(c) Optional Features

- Gain Conditioning - control of 1004 Hz AML at initiation of service to 0 dB ± 0.5 dB.
- Central office bridging capability (wired music).

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

. (C) Program Audio Services (Cont'd)

. (3) Program Audio 3 (AP3) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

- Actual Measured Loss (AML)

When the service is initiated, the 1004 Hz AML will be less than 32 dB. With the addition of optional gain conditioning, the initial AML will be 0 ± 0.5 dB. Remedial action will be taken when the loss variation at 1004 Hz exceeds the initial AML by ± 4.0 dB.

- Gain/Frequency Distortion

Over the frequency band from 50 to 8,000 Hz, the gain at any frequency will be within 1 dB of the gain at 1004 Hz.

- Signal-to-Idle Circuit Noise

The ratio of received 1004 Hz signal power to 15 kHz flat weighted idle circuit noise will be at least 62 dB. The received signal power level is determined by subtracting the channel AML from +18 dBm (the instantaneous peak signal level).

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

. (C) Program Audio Services (Cont'd)

. (3) Program Audio 3 (AP3) Special Access Service (Cont'd)

(e) Available Facility Interface Combinations

IC	End User	IC	End User
2PG2-8	2PG2-8	2PG2-8	2PG1-8
4DS9-15E {1}	2PG2-8	4DS9-15E {1}	2PG1-8
4AH5-B {2}	2PG2-8	4AH5-B {2}	2PG1-8
4AH6-C {2}	2PG2-8	4AH6-C {2}	2PG1-8
4AH6-D {2}	2PG2-8	4AH6-D {2}	2PG1-8

{1} Available only to ICs selecting the multiplexed 4-wire DSX facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

{2} Available only to the ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data. Channels 5, 6 and 7 are assigned for AP3.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(4) Program Audio 4 (AP4) Special Access Service

(a) Description

Special Access Service AP4 provides a channel with a nominal bandwidth from 50 to 15,000 Hz for the transmission of a complex signal voltage, such as speech or music, between an IC terminal location and an end user premises. Only one-way transmission is provided.

(b) Illustrative Application

Special Access Service AP4 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Wired Music

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(4) Program Audio 4 (AP4) Special Access Service (Cont'd)

(c) Optional Features

- Gain Conditioning - control of 1004 Hz AML at initiation of service to 0 dB ± 0.5 dB.

- Stereo - provision of a pair of gain/phase equalized channels for stereo applications.

- Central office bridging capability (wired music).

(d) Transmission Performance

- Actual Measured Loss (AML)

When the service is initiated, the 1004 Hz AML will be less than 32 dB. With the addition of optional gain conditioning, the initial AML will be 0 ± 0.5 dB. Remedial action will be taken when the loss variation at 1004 Hz exceeds the initial AML by 0 ± 4.0 dB.

- Gain/Frequency Distortion

Over the frequency band from 50 to 15,000 Hz, the gain at any frequency will be within 1 dB of the gain at 1004 Hz.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

. (C) Program Audio Services (Cont'd)

. (4) Program Audio 4 (AP4) Special Access Service (Cont'd)

. (d) Transmission Performance (Cont'd)

- Signal-to-Idle Circuit Noise

The ratio of received 1004 Hz signal power to 15 kHz flat weighted idle circuit noise will be at least 67 dB. The received power level is determined by subtracting the channel AML from +18 dBm (the instantaneous peak signal level).

(e) Available Facility Interface Combinations

IC	End User	IC	End User
2PG2-1	2PG2-1	2PG2-1	2PG1-1
4DS9-15H {1}	2PG2-1	4DS9-15H {1}	2PG1-1

{1} Available only to ICs selecting the multiplexed 4-wire DSX facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(5) Program Audio 5 (AP5) Special Access Service (Cont'd)

(a) Description

Special Access Service AP5 provides a nonequalized two-wire channel with a nominal band width of 200 Hz to 3000 Hz for the transmission of a complex signal voltage, such as speech or music. Only one-way transmission is provided between the customer's studio and the distribution amplifier(s) or between two Telephone Company-provided distribution amplifiers or between a Telephone Company-provided distribution amplifier and a customer-provided distribution amplifier.

(b) Illustrative Application

Special Access Service AP5 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Wired music

(c) Optional Features

- Gain Conditioning
- Central Office Bridging Capability

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(5) Program Audio 5 (AP5) Special Access Service (Cont'd)

(d) Transmission Performance

Actual Measured Loss (AML)

When the service is initiated, the 1004 Hz AML will be less than 12dB or with the optional gain will be 0 ± 0.5dB.

Gain/Frequency Distortion

The attenuation distortion between 200 Hz and 3000 Hz shall be within -3 dB to +10 dB relative to 1004 Hz loss.

Signal-to-Idle Circuit Noise

The C-message weighted idle circuit noise will be at least 54 dB below the received power of a 0 dBrn 1004 Hz tone transmitted at the far end.

(e) Facility Interface Combinations

End User	End User
2PG2	2PG2

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(6) Program Audio 6 (AP6) Special Access Service

(a) Description

Special Access Service AP6 provides a two-wire channel with a nominal bandwidth of approximately 100 to 5000 Hertz. This service is used for the transmission of a complex signal voltage, such as speech or music, between the customer's studio and the distribution amplifier(s) or between two Telephone Company-provided distribution amplifiers or between a Telephone Company-provided distribution amplifier and a customer-provided distribution amplifier. Only one-way transmission is provided.

(b) Illustrative Application

Special Access Service AP6 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Wired Music

(c) Optional Features

- Central Office Bridging Capability
- Gain Conditioning

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

. (C) Program Audio Services (Cont'd)

. (6) Program Audio 6 (AP6) Special Access Service

. (d) Transmission Performance

Actual Measured Loss (AML)

When the service is initiated, the 1004 Hz AML will be less than 32dB or with the optional gain will be 0 ± 0.5dB.

. Gain/Frequency Distortion

For Intraexchange channel the gain at any frequency in the band 100-5000 Hz will be within 1dB of the gain at 1004 Hz. For Interexchange channels the gain at any frequency will be within 3dB of the gain at 1004 Hz.

Signal-to-Idle Circuit Noise

The 15KC flat weight circuit noise will be at least 54dB below the received power of a 0dBrn 1004 Hz test tone transmitted at the far end. For interexchange channels the noise will be at least 49dB below the test tone level when T-digital carrier is used or 35dB below when analog carrier is used.

(e) Facility Interface Combinations

End User	End User
2PG2	2PG2

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

. (C) Program Audio Services (Cont'd)

. (7) Program Audio 7 (AP7) Special Access Service

(a) Description

Special Access Service AP7 provides a two-wire service channel with a nominal bandwidth of approximately 50 to 8000 Hertz. This service is used for the transmission of a complex signal voltage, such as speech or music, between the customer's studio and the distribution amplifier(s) or between two Telephone Company-provided distribution amplifiers or between a Telephone Company-provided distribution amplifier and a customer-provided distribution amplifier. Only one-way transmission is provided.

(b) Illustrative Application

Special Access Service AP7 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

. - Wired Music

(c) Optional Features

- Central Office Bridging Capability

- Gain Conditioning

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(7) Program Audio 7 (AP7) Special Access Service (Cont'd)

(d) Transmission Performance

Actual Measured Loss (AML)

When the service is initiated, the 1004 Hz AML will be less than 32dB or with the optional gain will be 0 ± 0.5dB.

Gain/Frequency Distortion

For Intraexchange channel the gain at any frequency in the band 50 - 8000 Hz will be within 1dB of the gain at 1004 Hz. For Interexchange channels the gain at any frequency will be within 3dB of the gain at 1004 Hz.

Signal-to-Idle Circuit Noise

The 15KC flat weighted circuit noise will be at least 54dB below the received power of a 0dBrn 1004 Hz test tone transmitted at the far end. For interexchange channels the noise will be at least 49dB below the test tone level when T-digital carrier is used or 35dB below when analog carrier is used.

(e) Facility Interface Combinations

End User	End User
2PG2	2PG2

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(8) Program Audio 8 (AP8) Special Access Service

(a) Description

Special Access Service AP8 provides a two-wire channel with a nominal bandwidth of approximately 50 to 15000 Hertz. This service is used for the transmission of a complex signal voltage, such as speech or music, between the customer's studio and the distribution amplifier(s) or between two Telephone Company-provided distribution amplifiers or between a Telephone Company-provided distribution amplifier, and a customer-provided distribution amplifier. These channels are only provided in the same exchange as the customer's studio and for one-way transmission only.

(b) Illustrative Application

Special Access Service AP8 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Wired Music

(c) Optional Features

- Central Office Bridging Capability
- Gain Conditioning

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(8) Program Audio 8 (AP8) Special Access Service (Cont'd)

(d) Transmission Performance

Actual Measured Loss (AML)

When the service is initiated, the 1004 Hz AML will be less than 32dB or with the optional gain will be 0 ± 0.5dB.

Gain/Frequency Distortion

The gain at any frequency in the band from 50 Hz to 15000 Hz will be within 1dB of the gain at 1004 Hz.

Signal-to-Idle Circuit Noise

The 15KC flat weighted idle circuit noise will be at least 54dB below the received power of a 0dBrn 1004 Hz test tone transmitted at the far end.

(e) Facility Interface Combinations

End User	End User
2PG2	2PG2

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(9) Program Audio 9 (AP9) Special Access Service

(a) Description

Special Access Service AP9 provides non-equalized two-wire channel with a nominal bandwidth of 200-3000 Hz. Only one-way transmission between a Telephone Company-provided distribution amplifier and a station location (patron) is provided. This service is used for the transmission of a complex signal voltage, such as speech or music.

(b) Illustrative Application

Special Access Service AP9 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Wired Music

(c) Optional Features

- Central Office Bridging Capability

- Gain Conditioning

(d) Transmission Performance

Actual Measured Loss (AML)

When the service is initiated, the 1004 Hz AML will be less than 14dB or with optional gain will be 0 ± 0.5dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

. (C) Program Audio Services (Cont'd)

. (9) Program Audio 9 (AP9) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

Gain/Frequency Distortion

. The attenuation distortion between 200 Hz and 3000 Hz shall be within -3dB to +12dB relative to the 1004 Hz loss.

Signal-to-Idle Circuit Noise

The C-message weighted idle circuit noise will be at less than 34dBrn.

. (e) Facility Interface Combinations

End User	End User
2PG2	2PG2

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(10) Program Audio 10 (AP10) Special Access Service

(a) Description

Special Access Service AP10 provides a two-wire channel with a nominal bandwidth of approximately 100 to 5000 Hertz. Only one-way transmission between a Telephone Company- provided distribution amplifier and a station location (patron) is provided. This service is used for transmission of a complex signal voltage, such as speech or music.

(b) Illustrative Application

Special Access Service AP10 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Wired Music

(c) Optional Features

- Central Office Bridging Capability
- Gain Conditioning

(d) Transmission Performance

Actual Measured Loss (AML)

When the service is initiated, the 1004 Hz AML will be less than 14dB or with optional gain will be 0 ± 0.5dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(10) Program Audio 10 (AP10) Special Access Service (Cont'd)

(d) Transmission Performance (Cont'd)

Gain/Frequency Distortion

The gain at any frequency in the band of 100-5000 Hz shall be within 4dB of 1004 Hz loss.

Signal-to-Idle Circuit Noise

The C-message weighted idle circuit noise will be at less than 34dBrn.

(e) Facility Interface Combinations

End User	End User
2PG2	2PG2

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(11) Program Audio 11 (AP11) Special Access Service

(a) Description

Special Access Service AP11 provides a two-wire channel with a nominal bandwidth of approximately 50 to 8000 Hertz. Only one-way transmission between a Telephone Company-provided distribution amplifier and a station location (patron) is provided. This service is used for transmission of a complex signal voltage, such as speech or music.

(b) Illustrative Application

Special Access Service AP11 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Wired Music

(c) Optional Features

- Central Office Bridging
- Gain Conditioning

(d) Transmission Performance

Actual Measured Loss

When the service is initiated the 1004 Hz AML will be less than 14dB or with optional gain will be 0 ± 0.5dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(C) Program Audio Services (Cont'd)

(11) Program Audio 11 (AP11) Special Access Service (Cont'd)

(d) Transmission Performance

Gain/Frequency Distortion

The gain at any frequency in the band of 50-8000 Hz shall be within 9dB of the 1004 Hz loss.

Signal-to-Idle Circuit Noise

The C-message weighted idle circuit noise will be at less than 34dBrn.

(e) Facility Interface Combinations

End User	End User
2PG2	2PG2

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

. (D) Reserved For Future Use

(E) Wideband Analog Services

(1) Wideband Analog 1 (WA1) Special Access Service

(a) Description

Special Access Service WA1 provides a high capacity channel with a bandwidth from 60 kHz to 108 kHz for the transmission of a wideband signal between an IC terminal location and an end user's premises, between IC terminal locations or between an IC terminal location and a Telephone Company designated Hub where multiplexing is offered.

(b) Illustrative Application

Special Access Service WA1 is suitable for the transmission of a 12 channel group.

(c) Optional Feature

- Central office multiplexing.

(d) Transmission Performance

- Nominal Bandwidth

60 kHz to 108 kHz with pilot slot reserved at 104.08 kHz.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(E) Wideband Analog Services (Cont'd)

(1) Wideband Analog 1 (WA1) Special Access Service (Cont'd)

(e) Available Facility Interface Combinations

	IC	End User
..	4AH5-B	4AH5-B
..	4AH6-C {1}	4AH5-B
..	4AH6-D {1}	4AH5-B

(2) Wideband Analog to Digital (WA1T) Special Connector Service

(a) Description

. Special Access Service WA1T provides two WA1 channels from an IC terminal location for connection to an HC1 Special Access Service at a Telephone Company designated Hub location via a Group to DS1 multiplexer. The HC1 service may only be extended to another Hub for multiplexing to voice or other service.

(b) Illustrative Application

. Special Access Service WA1T is suitable for the transmission of 24 channels connected via multiplexing to 24 DS1 channels.

{1} Available only to ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(E) Wideband Analog Services (Cont'd)

(2) Wideband Analog to Digital (WA1T) Special Connector Service (Cont'd)

(c) Optional Feature

- Central office multiplexing.

(d) Transmission Performance

Provides two Special Access WA1 channels each with the performance shown for WA1 in (1)(d) preceding.

NOTE: The Access Connection and Channel Mileage rate elements for WA1 apply for WA1T. Two of each are required.

(3) Wideband Analog 2 (WA2) Special Access Service

(a) Description

Special Access Service WA2 provides a high capacity channel with a bandwidth from 312 kHz to 552 kHz for the transmission of a wideband signal between an IC terminal location and an end user premises or between IC terminal locations or between an IC terminal location and a Telephone Company designated Hub where multiplexing is offered.

(b) Illustrative Application

Special Access Service WA2 is suitable for the transmission of a 60 channel supergroup.

(c) Optional Feature

- Central office multiplexing.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.1 Analog Services (Cont'd)

(E) Wideband Analog Services (Cont'd)

. (3) Wideband Analog 2 (WA2) Special Access Service (Cont'd)

(d) Transmission Performance

- Nominal Bandwidth

312 kHz to 552 kHz with pilot slot reserved at 315.92 kHz.

(e) Available Facility Interface Combinations

	IC	End User
..	4AH6-C	4AH6-C
..	4AH6-D {1}	4AH6-C {2}

{1} Available only to ICs selecting the multiplexed 4-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

{2} Available only via a Telephone Company designated HUB where multiplexing is offered.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services**

(A) Wideband Digital Services

(1) Wideband Digital 1 (WD1) Special Access Service

(a) Description

Special Access Service WD1 provides a channel for the transmission of 19.2 kbps synchronous serial data between an IC terminal location and an end user premises. Optional arrangements are available for transmission at 18.75 kbps or for transmission of nonsynchronous data with a minimum signal element width of 52 microseconds. A voiceband coordinating channel can be provided with this service at rates as specified for the specific VG service required by the customer.

(b) Illustrative Application

The nonsynchronous option is suitable for use as part of the facilities required to provide intrastate facsimile transmission.

(c) Transmission Performance

- Error-Free Seconds

While in service, the monthly average of the error-free seconds will be equal to or greater than 98.75%.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.2 Digital Services (Cont'd)

(A) Wideband Digital Services (Cont'd)

(1) Wideband Digital 1 (WD1) Special Access Service (Cont'd)

(d) Available Facility Interface Combinations

IC	End User
8WB5-19S	12WC6-19
8WB5-18S	12WC6-18
8WB5-19A	10WC6-19

(2) Wideband Digital 2 (WD2) Special Access Services

(a) Description

Special Access Service WD2 provides a channel for the transmission of 50 kbps synchronous or isochronous serial data between an IC terminal location and an end user premises. Optional arrangements are available for transmission of synchronous serial data at 40.8 kbps or for transmission of nonsynchronous data with a minimum signal element width of 20 microseconds. An arrangement may also be included to accommodate the nonsimultaneous transmission of signal and supervisory tones between the frequencies of 300 and 3000 Hz. A voiceband coordinating channel can be provided with this service at rates as specified for the specific voice grade service required by the customer.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

(A) Wideband Digital Services (Cont'd)

(2) Wideband Digital 2 (WD2) Special Access Services (Cont'd)

(b) Illustrative Application

. Special Access Service WD2 is suitable for use as part of the facilities required to provide intrastate facsimile transmission.

(c) Transmission Performance

- Error-Free Seconds

While in service, the monthly average of the error-free seconds will be equal to or greater than 98.75%.

. (d) Available Facility Interface Combinations

IC	End User
8WB5-50S	12WC6-50
8WB5-40S	12WC6-40
8WB5-50A	10WC6-50

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

(A) Wideband Digital Services (Cont'd)

(3) Wideband Digital 3 (WD3) Special Access Service (Cont'd)

(a) Description

. Special Access Service WD3 provides a channel for the transmission of 230.4 kbps synchronous serial data between an IC terminal location and an end user premises. Optional arrangements are available for the transmission of nonsynchronous data with a minimum signal element width of 4.3 microseconds. A voiceband coordinating channel can be provided with this service at rates as specified for the specific VG service required by the customer.

(b) Illustrative Application

The nonsynchronous option is suitable for use as part of the facilities required to provide intrastate facsimile transmission.

(c) Transmission Performance

- Error-Free Seconds

While in service, the monthly average of the error-free seconds will be equal to or greater than 98.75%.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

(A) Wideband Digital Services (Cont'd)

(3) Wideband Digital 3 (WD3) Special Access Service (Cont'd)

(d) Available Facility Interface Combinations

IC	End User
8WB5-23S	12WC6-23S
8WB5-23A	10WC6-23

(4) Wideband Digital 4 (WD4) Special Access Service

(a) Description

. Special Access Service WD4 provides for the transmission of 56 kbps synchronous serial data between an IC terminal location and an end user premises.

(b) Illustrative Application

When using the DATAPHONE Digital Service timing option, this service is suitable for use as part of the facilities required to provide intrastate Digital Data Off-Net Extension.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

(A) Wideband Digital Services (Cont'd)

(4) Wideband Digital 4 (WD4) Special Access Service (Cont'd)

(c) Transmission Performance

- Error-Free Seconds

While in service, the monthly average of the error-free seconds will be equal to or greater than 98.75%.

. (d) Available Facility Interface Combinations

IC	End User
4WB5-64	6DU5-56
4DO5	6DU5-56

. (B) Digital Data Access Services

. Digital Data Access Services are only available via Telephone Company designated Digital Data Hubs.

. (1) Digital Data Access 1 (DA1) Special Access Service

(a) Description

Special Access Service DA1 provides a channel for duplex four-wire transmission capability of serial synchronous data at the 2.4 kbps rate between an IC terminal location and an end user premises. The service is synchronous with timing provided through the Telephone Company's facilities to the end user on the received bit stream.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

. (B) Digital Data Access Services (Cont'd)

(1) Digital Data Access 1 (DA1) Special Access Service (Cont'd)

(a) Description (Cont'd)

. DA1 is available only between the IC terminal location and locations designed by the Telephone Company which are served by digital facilities. All other locations are connectable to the Telephone Company designated digital Hub only through an analog off-network extension which is provided as a Voice Grade 10 Service as set forth in Section 7.2.1(B) preceding.

. (b) Illustrative Application

. Special Access Service DA1 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Digital Data - 2.4 kbps

(c) Optional Features

- Transfer arrangement.
- Central office bridging capability.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

. (B) Digital Data Access Services (Cont'd)

(1) Digital Data Access 1 (DA1) Special Access Service (Cont'd)

(d) Transmission Performance

- Error-Free Seconds

While in service, the monthly average of the error-free seconds will be equal to or greater than 99.875%.

. (e) Available Facility Interface Combinations

IC	End User
.. 4DS9-15 {1}	6DU5-24
.. 6DU5-24	6DU5-24

{1} Available only to ICs selecting the multiplexed 4-wire DSX facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

. (B) Digital Data Access Services (Cont'd)

(2) Digital Data Access 2 (DA2) Special Access Service

(a) Description

. Special Access Service DA2 provides a channel for duplex four-wire transmission capability of serial synchronous data at the 4.8 kbps rate between an IC terminal locations and an end user premises. The service is synchronous with timing provided through the Telephone Company's facilities to the end user on the received bit stream.

. DA2 is available only between the IC terminal location and locations designated by the Telephone Company which are served by digital facilities. All other locations are connectable to the Telephone Company designated digital Hub only through an analog off-network extension which is provided as a Voice Grade 10 Service as set forth in Section 7.2.1(B) preceding.

. (b) Illustrative Application

. Special Access Service DA2 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Digital Data - 4.8 kbps

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

. (B) Digital Data Access Services (Cont'd)

(2) Digital Data Access 2 (DA2) Special Access Service (Cont'd)

(c) Optional Features

- Loop transfer arrangement.
- Central office bridging capability.

. (d) Transmission Performance

- Error-Free Seconds

.
. While in service, the monthly average of the error-free seconds will be equal to or greater than 99.875%.

. (e) Available Facility Interface Combinations

IC	End User
.. 4DS9-15 {1}	6DU5-48
.. 6DU5-48	6DU5-48

{1} Available only to ICs selecting the multiplexed 4-wire facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

. (B) Digital Data Access Services (Cont'd)

(3) Digital Data Access 3 (DA3) Special Access Service

(a) Description

Special Access Service DA3 provides a channel for duplex four-wire transmission capability of serial synchronous data at the 9.6 kbps rate between an IC terminal location and an end user premises. The service is synchronous with timing provided through the Telephone Company's facilities to the end user on the received bit stream.

. DA3 is available only between the IC terminal location and locations designated by the Telephone Company which are served by digital facilities. All other locations are connectable to the Telephone Company designated digital Hub only through an analog off-network extension which is provided as a Voice Grade 10 Service as set forth in Section 7.2.1(B) preceding.

. (b) Illustrative Application

. Special Access Service DA3 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Digital Data - 9.6 kbps

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

. (B) Digital Data Access Services (Cont'd)

(3) Digital Data Access 3 (DA3) Special Access Service (Cont'd)

(c) Optional Features

- Loop transfer arrangement.
- Central office bridging capability.

(d) Transmission Performance

- Error-Free Seconds

While in service, the monthly average of the error-free seconds will be equal to or greater than 99.875%.

. (e) Available Facility Interface Combinations

	IC	End User
.....	4DS9-15 {1}	6DU5-96
.....	6DU5-96	6DU5-96

{1} Available only to ICs selecting the multiplexed 4-wire DSX facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

. (B) Digital Data Access Services (Cont'd)

(4) Digital Data Access 4 (DA4) Special Access Service

(a) Description

Special Access Service DA4 provides a channel for duplex four-wire transmission capability of serial synchronous data at the 56 kbps rate between an IC terminal location and an end user premises. The service is synchronous with timing provided through the Telephone Company's facilities to the end user on the received bit stream.

. DA4 is available only between the IC terminal location and locations designated by the Telephone Company which are served by digital facilities. All other locations are connectable to the Telephone Company designated digital Hub only through an analog off-network extension which is provided as a Wideband Digital Service as set forth in Section 7.2.2(A) preceding.

(b) Illustrative Application

Special Access Service DA4 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Digital Data - 56 kbps

(c) Optional Features

- Loop transfer arrangement.
- Central office bridging capability.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

. (B) Digital Data Access Services (Cont'd)

(4) Digital Data Access 4 (DA4) Special Access Service (Cont'd)

(d) Transmission Performance

. - Error-Free Seconds

While in service, the monthly average of the error-free seconds will be equal to or greater than 99.875%.

. (e) Available Facility Interface Combinations

	IC	End User
..	4DS9-15 {1}	6DU5-56
..	6DU5-56	6DU5-56

{1} Available only to ICs selecting the multiplexed 4-wire DSX facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

. (B) Digital Data Access Services (Cont'd)

. (5) Subrate Multiplexed Digital Data Access 1 (SR1) Special Connector Service

(a) Description

. Special Access Service SR1 provides the ability to combine up to 20 DA1 Special Access Services into a single channel of a HC1 Special Access Service.

. Note: The only rate elements applicable to this service are the Carrier Submultiplexing Unit and the Carrier Multiplexing Plug-Ins per 64 kbps channel.

. (6) Subrate Multiplexed Digital Data Access 2 (SR2) Special Connector Service

. (a) Description

. Special Access Service SR2 provides the ability to combine up to 10 DA2 Special Access Services into a single channel of a HC1 Special Access Service. Note: The only rate elements applicable to this service are the Carrier Submultiplexing Unit and the Carrier Multiplexing Plug-Ins per 64 kbps channel.

. (7) Subrate Multiplexed Digital Data Access 3 (SR3) Special Connector Service

(a) Description

. Special Access Service SR3 provides the ability to combine up to five DA3 Special Access Services into a single channel of a HC1 Special Access Service.

. Note: The only rate elements applicable to this service are the Carrier Submultiplexing Unit and the Carrier Multiplexing Plug-Ins per 64 kbps channel.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

(C) High Capacity Services

(1) High Capacity 1 (HC1) Special Access Service

(a) Description

. Special Access Service HC1 provides a channel for the transmission of nominal 1.544 Mbps isochronous serial data between an IC terminal location and an end user premises, between IC terminal locations or between an IC terminal location and a Telephone Company designated Hub where multiplexing is offered.

. (b) Illustrative Application

. Special Access Service HC1 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

. - 1.544 Mbps Access Line

. (c) Optional Features

. - Automatic Protection Switching.
. - Central office multiplexing.
. - Clear Channel Capability (CCC)

(d) Transmission Performance

- Error-Free Seconds

. While in service, 98.75% of the one-second intervals will be error-free measured over a continuous 24 hour period.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.2 Digital Services (Cont'd)

(C) High Capacity Services (Cont'd)

(1) High Capacity 1 (HC1) Special Access Service (Cont'd)

(e) Available Facility Interface Combinations

IC	End User
4DS9-15J	6DU9-A
4DS9-156DU9-B	
4DS9-15K	6DU9-B
4DS9-15K	6DU9-C
4DS9-31 {1}	6DU9-A,B or C
4DS0-63 {1}	6DU9-A,B or C
4DS6-44 {1}	6DU9-A,B or C
4DS6-27 {1}	6DU9-A,B or C

(2) High Capacity 1C (HC1C) Special Access Service

(a) Description

Special Access Service HC1C provides a channel for the transmission of nominal 3.152 Mbps isochronous serial data between IC terminal locations or between an IC terminal location and a Telephone Company designated Hub where multiplexing is offered.

(b) Illustrative Application

Special Access Service HC1C is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- 3.152 Mbps Access Line

{1} Available only to ICs selecting the multiplexed 4-wire DSX facility interface option of the IC terminal location and providing subsequent system and channel assignment data.

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.2 Digital Services (Cont'd)

(C) High Capacity Services (Cont'd)

(2) High Capacity 1C (HC1C) Special Access Service (Cont'd)

(c) Optional Features

- Central office multiplexing.

(d) Available Facility Interface Combinations

IC	End User
4DS9-31	4DS9-31

(3) High Capacity 2 (HC2) Special Access Service

(a) Description

Special Access Service HC2 provides a channel for the transmission of nominal 6.312 Mbps isochronous serial data between IC terminal locations or between an IC terminal location and a Telephone Company designated Hub where multiplexing is offered.

(b) Illustrative Application

Special Access Service HC2 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Digital Service - High Speed

(c) Optional Feature

- Central office multiplexing.

{1} See Section 7.4.5(B) following for explanation.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.2 Digital Services (Cont'd)

(C) High Capacity Services (Cont'd)

(3) High Capacity 2 (HC2) Special Access Service (Cont'd)

(d) Available Facility Interface Combinations

IC	End User
4DS0-63	4DS0-63

(4) High Capacity 3 (HC3) Special Access Service

(a) Description

Special Access Service HC3 provides a channel for the transmission of 44.736 Mbps isochronous serial data between IC terminal locations or between an IC terminal location and a Telephone Company designated Hub where multiplexing is offered.

(b) Illustrative Application

Special Access Service HC3 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Digital Service - High Speed

{1} See 7.4.5(B) following for explanation.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

(C) High Capacity Services (Cont'd)

. (4) High Capacity 3 (HC3) Special Access Service

. (c) Optional Feature

. - Central office multiplexing.

(d) Available Facility Interface Combinations

IC	End User
4DS6-4	44DS6-44

{1} See Section 7.4.5(B) following for explanation.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.2 Digital Services (Cont'd)**

(C) High Capacity Services (Cont'd)

(5) High Capacity 4 (HC4) Special Access Service

(a) Description

Special Access Service HC4 provides a channel for the transmission of 274.176 Mbps isochronous serial data between IC terminal locations or between an IC terminal location and a Telephone Company designated Hub where multiplexing is offered.

(b) Illustrative Application

Special Access Service HC4 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Digital Service - High Speed

(c) Optional Feature

- Central office multiplexing.

(d) Available Facility Interface Combinations

IC	End User
4DS6-27	4DS6-27

{1} See Section 7.4.5(B) following for explanation.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.3 Service Designator/Network Channel Code Conversion Table

. The purpose of this table is to show the relationship between the service designator codes (e.g. VG1, NB2, etc.) and the network channel codes that are used for various administrative purposes.

Service Designator Code	Network Channel Code
NB1	NT
NB2	NU
NB4	NW
NB5	NY
NB6	TS
NB7	TT
VG1	LB
VG2	LC
VG3	LD
VG5	LF
VG6	LG
VG7	LH
VG8	LJ
VG9	LK
VG10	LN

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.3 Service Designator/Network Channel Code Conversion Table (Cont'd)

Service Designator Code	Network Channel Code
AP1	PE
AP2	PF
AP3	PJ
AP4	PK
AP5	MT
AP6	MT
AP7	MT
AP8	MT
AP9	MT
AP10	MT
AP11	MT

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.3 Service Designator/Network Channel Code Conversion Table (Cont'd)

Service Designator Code	Network Channel Code
WA1	WJ
WA1T	WQ
WA2	WL
WD1	WB
WD2	WE
WD3	WF
WD4	WH
DA1	XA
DA2	XB
DA3	XG
DA4	XH
SR1	RB
SR2	RC
SR3	RD
HC1	HC
HC1C	HD
HC2	HE
HC3	HF
HC4	HG

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.4 WATS Access Line Service

The WATS Access Line Service provides a connection between an end user's premises (which for purposes of this tariff includes Centrex CO switches) and a Telephone Company switching office capable of performing the necessary screening functions for 800 Service, WATS or similar services.

WATS Access Line Service is provided for either originating calling only or terminating calling only. It is provided with rotary dial or dual tone multifrequency address signaling and either loop start or ground start supervisory signaling (i.e., facility interfaces). The choice of the type of signaling is at the option of the customer.

WATS Access Line Service is provided as either an effective two-wire or effective four-wire transmission path. Each transmission path is provided with Standard Transmission Specifications and Data Transmission Parameters as set forth in 7.2.4(A) and 7.2.4(B) following.

WATS Access Line Service is provided only for use with Feature Group C or D and are for use at the closed end of an 800 Service or a WATS or similar type service.

At the option of the customer, the WATS Access Line Service may be ordered with the Improved Two-Wire Voice Transmission Specifications optional feature (guaranteed specifications are set forth in 7.2.4(C) following). Certain other features which may be provided in connection with WATS Access Line Service are available under the Telephone Company's local and/or general exchange service tariffs. Examples are:

- End user access to a Telephone Company test line
- Speed Calling
- Remote Call Forwarding
- Directory Number (with trunk side terminations)

When an end-user is located in an exchange other than the exchange where the end-user's WATS serving office is located, and the end-user's exchange and the exchange of the WATS serving office have different calling scopes, the blocking of local calls on foreign exchange served WATS access lines will be based on the calling scope of the end user's exchange rather than the exchange of the WATS serving office. Because of technical problems in certain foreign exchange WATS serving offices, the Telephone Company may not be able to block local calls within the end-user's exchange will occur. All calls dialed in the 800 format irrespective of jurisdiction and including local 800 calls are not affected by this restriction.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.4 WATS Access Line Service (Cont'd)**

. When intrastate WATS Access Line Service is utilized for originating interLATA and intraLATA Wide Area Telecommunications Service, intraLATA calling is provided by the Telephone Company and will be billed as described in the Wide Area Telecommunications Service Tariff. InterLATA calling is provided by the customer and switched access charges as specified in Section 6 of this tariff will apply for such originating interLATA usage. A WATS Access line charge will apply as specified in the Wide Area Telecommunications Service Tariff.

. Intrastate WATS Access Line Service may be utilized in the terminating direction for the completion of joint provided 800 Access service calling. For this arrangement , terminating interLATA usage will be billed switched access charges as described in Section 6 of this tariff. IntraLATA usage will be billed as specified in the Wide Area Telecommunications Service Tariff. For joint provided 800 Access Service which utilizes terminating intrastate WATS Access Line Service for the completion of 800 service calling, a WATS Access Line charge as specified in the Wide Area Telecommunications Service Tariff will apply.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.4 WATS Access Line Service (Cont'd)**

. (A) WATS Access Line Standard Transmission Specifications

. (1) Standard Two-Wire Voice Transmission Specifications

. (a) Loss Deviation

. The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 4.0 db.

. (b) Attenuation Distortion

. The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -3.0 db to +9.0 db.

. (c) C-Message Noise

. The Maximum C-Message Noise for the transmission path at the route miles listed is less than:

Route Miles	C-Message Noise
less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

. (d) Echo Control

. Return Loss for both Echo Return Loss (ERL) and Singing Return Loss (SLR) is equal to or greater than:

ERL	6.0 dB
SRL	3.0 dB

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

7.2.4 WATS Access Line Service (Cont'd)

(A) WATS Access Line Standard Transmission Specifications (Cont'd)

(2) Standard Four-Wire voice Transmission Specifications

(a) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -3.0 dB to +3.0 dB.

(b) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -1.0 dB to +4.5 dB.

(c) C-Message Noise

The Maximum C-Message Noise for the transmission path at the route miles listed is less than:

Route Miles	C-Message Noise
less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

(d) Echo Control

The Equal Level Echo Path Loss for both Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	15.0 dB
SRL	9.0 dB

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.4 WATS Access Line Service (Cont'd)**

. (B) WATS Access Line Data Transmission Parameters

. (1) Signal to C-Notched Noise Ratio

. The maximum Signal to C-Notched Noise Ratio is 30 dB.

. (2) Envelope Delay Distortion

. The maximum Envelope Delay Distortion for the frequency bands specified is:

1000 microseconds	604 to 2804 Hz
500 microseconds	1000 to 2404 Hz

. (3) Impulse Noise Counts

. The Impulse Noise Counts exceeding a 67 dBrnCO threshold in 15 minutes is no more than 15 counts.

. (4) Intermodulation Distortion

. The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

. (5) Phase Jitter

. The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 7 degrees peak-to-peak.

. (6) Frequency Shift

. The maximum Frequency Shift does not exceed -2 to +2 Hz.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Technical Service Descriptions for Special Access Service (Cont'd)

. **7.2.4 WATS Access Line Service (Cont'd)**

. (C) WATS Access Line Improved Two-Wire Voice Transmission Specifications

. (1) Loss Deviation

. The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -4.0 dB to +4.0 dB.

. (2) Attenuation Distortion

. The maximum Attenuation Distortion in the 404 to 280 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

. (3) C-Message Noise

. The Maximum C-Message Noise for the transmission path at the route miles listed is less than:

Route Miles	C-Message Noise
less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

. (4) Return Loss

. The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Facility Interface Codes (Cont'd)

This section explains the facility interface codes set forth in 7.2.1 and 7.2.2 preceding that the IC can specify when ordering Special Access Service. Included is an example which explains the specific characters of the code, a glossary of facility interface codes and impedance levels.

Example: If the IC specifies a 2DC8-3 facility interface at the IC terminal location, it is requesting the following:

2	=	Number of physical wires at IC terminal location.
DC	=	Facility interface for direct current or voltage
8	=	Variable impedance level
3	=	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Facility Interface Codes (Cont'd)

. **7.3.1 Glossary of Facility Interface Codes and Options**

Code	Option	Definition
AB-		accepts 20 Hz ringing signal at IC point of interface
AC-		accepts 20 Hz ringing signal at end user network interface
AH-		analog high capacity interface
	- B	60 kHz to 108 kHz (12 channels)
	- C	312 kHz to 552 kHz (60 channels)
	- D	564 kHz to 3084 kHz (600 channels)
DA -		data stream in VF frequency band at end user network interface
DB -		data stream in VF frequency band at IC point of interface location
	- 10	VF for NBB4 and NB5
	- 43	VF for 43 Telegraph Carrier type signals, NB4 and NB5
DC -		direct current or voltage
	- 1	monitoring interface with series RC combination (McCulloh format)
	- 2	Telephone Company energized alarm channel
	- 3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)
DD -		DATAPHONE Select-A-Station (and TABS) interface at IC point of interface

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Facility Interface Codes (Cont'd)

. **7.3.1 Glossary of Facility Interface Codes and Options**

Code	Option	Definition
DE -		DATAPHONE Select-A-Station (and TABS) interface at the end user NI
DO -		digital interface at IC terminal location at the digital signal level zero A (DS-OA)
DS -		digital hierarchy interface
	- 15	1.544 Mbps (DS1) format per PUB41451 plus D4
	- 15E	8-bit PCM encoded in one 64 kbps of the DS1 signal
	- 15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
	- 15G	8-bit PCM encoded in three 64 kbps of the DS1 signal
	- 15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
	- 15J	1.544 Mbps format per PUB 41451
	- 15K	1.544 Mbps format per PUB 41451 plus extended framing format
	- 15L	1.544 Mbps (DS1) with SF signaling
	- 27	274.176 Mbps (DS4)
	- 27L	274.176 Mbps (DS4) with SF signaling
	- 31	3.152 Mbps (DS1C)
	- 31L	3.152 Mbps (DS1C) with SF signaling
	- 44	44.736 Mbps (DS3)
	- 44L	44.736 Mbps (DS3) with SF signaling
	- 63	6.313 Mbps (DS2)
	- 63L	6.312 Mbps (DS2) with SF signaling
DU -		digital access interface
	- 24	2.4 kbps
	- 48	4.8 kbps
	- 56	56.-kbps
	- 96	9.6 kbps
	- A	1.544 Mbps format per PUB 41451
	- B	1.544 Mbps format per PUB 41451 plus D4
	- C	1.544 Mbps format per PUB 41451 plus extended framing format
DX -		duplex signaling interface at IC POI
DY -		duplex signaling interface at end user NI
EA -	E	Type I E&M Lead Signaling. IC at POI or end user at NI originates on E Lead.
EA -	M	Type I E&M Lead Signaling. IC at POI or end user at NI originates on M Lead.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Facility Interface Codes (Cont'd)

. **7.3.1 Glossary of Facility Interface Codes and Options**

Code	Option	Definition
EB -	E	Type II E&M Lead Signaling. IC at POI or end user at NI originates on E Lead.
EB -	M	Type II E&M Lead Signaling. IC at POI or end user at NI originates on M Lead
EC -		Type III E&M Signaling at IC terminal POI tandem
EX -	A	channel unit signaling for loop start or ground start and IC supplies open end (disc tone, etc.) functions.
EX -	B	tandem channel unit signaling for loop start or ground start and IC supplies closed end (dial pulsing, etc.) functions.
GO -		ground start loop signaling - open end function by IC or end user
GS -		ground start loop signaling - closed end function by IC or end user
IA -		E.I.A. (25 pin (RS-232)
LA -		end user loop start signaling - Type A OPS registered port open end
LB -		end user loop start loop signaling - Type B OPS registered port open end
LC -		end user loop start loop signaling - Type C OPS registered port open end
LO -		loop start loop signaling - open end function by IC or end user
LR -		20 Hz automatic ringdown interface at IC with Telephone Company provided PLAR
LS -		loop start loop signaling - closed end function by IC or end user
NO -		no signaling interface, transmission only
PG -		program transmission - no DC signaling
	1	nominal frequency from 50 to 15,000 Hz
	3	nominal frequency from 200 to 3,500 Hz
	5	nominal frequency from 100 to 5,000 Hz
	8	nominal frequency from 50 to 8,000 Hz
RV -	0	reverse battery signaling, one way operation, originate by IC
	T	reverse battery signaling, one way operation, terminate function by IC or end user
SF -		single frequency signaling with VF band at either IC POI or end user NI

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Facility Interface Codes (Cont'd)

7.3.1 Glossary of Facility Interface Codes and Options (Cont'd)

Code	Option	Definition
TF -		telephotograph interface
TT -		telegraph/teletypewriter interface at either IC POI or end user NI
	2	20.0 milliamperes
	3	3.0 milliamperes
	6	62.5 milliamperes
WA -		wideband bandwidth interface at end user NI
	1	limited bandwidth
	2	nominal passband from 29,000 to 44,000 Hz
WB -		wideband data interface at IC POI
	18S	18.75 kbps, synchronous
	19A	up to 19.2 kbps asynchronous
	19S	19.2 kbps synchronous
	23A	up to 230.4 kbps, asynchronous
	23S	230.4 kbps, synchronous
	40S	40.8 kbps, synchronous
	50A	up to 50.0 kbps, asynchronous
	50S	50.0 kbps, synchronous
	64	64.0 kbps, restored polar
WC -		wideband data interface at end user NI
	18	18.75 kbps, synchronous
	19	for 12-wire interface: 19.2 kbps, synchronous for 10-wire interface: up to 19.2 kbps, asynchronous
	23	up to 230.4 kbps, asynchronous
	23S	230.4 kbps, synchronous
	40	40.8 kbps, synchronous
	50	for 12-wire interface: 50.0 kbps, synchronous for 10-wire interface: up to 50.0 kbps, asynchronous
WD -		wideband bandwidth interface at IC POI
	1	nominal passband from 300 to 18,000 Hz
	2	nominal passband from 28,000 to 44,000 Hz
	3	nominal passband from 29,000 to 44,000 Hz

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Facility Interface Codes (Cont'd)

. **7.3.2 Impedance**

. The nominal reference impedance with which the IC or end user will terminate the channel for the purpose of evaluation transmission performance:

Value (ohms)	Code(s)
110	0
150	1
600	2
900	3 {1}
1200	4
135	5
75	6
124	7
Variable	8
100	9

{1} For those interface codes with a 4-wire transmission path at the POI at the IC's terminal location, rather than a standard 900 ohm impedance the code (3) denotes an IC provided transmission equipment termination. Such terminations were provided to ICs in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Facility Interface Codes (Cont'd)

. **7.3.3 Digital Hierarchy Facility Interface Codes (4DS9- {1})**

. This facility interface is available only to IC's that select the multiplexed four-wire DSX-1 or higher facility interface option at the IC terminal location and provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the facility interface code 4DS9 plus the speed options indicated below:

Interface Code And Speed Option	Nominal Bit Rate (Mbps)	Digital Hierarchy Level
4DS9-15	1.544	DS1
4DS9-15L	1.544	DS1
4DS9-31	3.152	DS1C
4DS9-31L	3.152	DS1C
4DS0-63	6.312	DS2
4DS0-63L	6.312	DS2
4DS6-44	44.736	DS3
4DS6-44L	44.736	DS3
4DS6-27	274.176	DS4
4DS6-27L	274.176	DS4

{1} For those interface codes with a 4-wire transmission path at the POI at the IC's terminal location, rather than a standard 900 ohm impedance the code (3) denotes an IC provided transmission equipment termination. Such terminations were provided to ICs in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations

. This section contains the specific regulations governing the rates and charges that apply for Special Access Service.

. **7.4.1 Types of Rates and Charges**

. There are two types of rates and charges. These are monthly recurring rates and nonrecurring charges. In addition, there are three types of nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rates

. Monthly rates are flat recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). The three types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of feature(s) and function(s), and service rearrangements.

(1) Installation of Service

Nonrecurring charges apply to each service installed. When multiple identical services (i.e., services between the same locations and for the same customer) are ordered and installed at the same time, there is a charge for the first service installed and a lower charge for each additional identical service installed. Nonrecurring charges for the installation of all services apply per service termination (i.e., IC terminal location and end user premises). The nonrecurring charges for these services are set forth in the rate schedule with the facility interface combinations in Section 17.3.3 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(1) Installation of Service (Cont'd)

In addition, there is a separately stated nonrecurring charge associated with the installation of Voice Grade Service (i.e., VG1-3 and 5-10) which varies by the specific performance desired (e.g., VG2, VG3, etc.). These nonrecurring charges, which apply per two-point service or each section of a multipoint service, are set forth in the rate schedule in Section 17.3.3 following.

(2) Installation of Features and Functions

Nonrecurring charges apply for the installation of the various features and functions available with Special Access Service. For some features and functions there is a lower charge if installed coincident with the service and a higher charge if installed subsequent to the installation of the service.

(3) Service Rearrangements

Nonrecurring charges apply for service rearrangements. Service rearrangements are changes to existing services that do not result in a change to any of the following: (1) address of the IC terminal location, (2) address of the end users premises or (3) type of service. Changes of this nature constitute a discontinuance and start of service

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

. **7.4.1 Types of Rates and Charges (Cont'd)**

(B) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

Service Rearrangement Charges are based on the nonrecurring (i.e., installation) charge of the service being changed. Following are the service rearrangements that are allowable for Special Access Service and the appropriate levels of charging.

Type of Charge	Level of Charging
Change from two-wire to four-wire or from-four-wire to two-wire	Full nonrecurring charge associated with the facility interface combination for the service being changed
Change in facility interface that does not result in a change to any other rate element (e.g., 2LS2 to 2GS2)	1/2 of the nonrecurring charge associated with the facility interface combination for the service being changed
Change in facility interface that results in changes to other rate element(s) (e.g., 4GS2 to 4DS9-15)	Full nonrecurring charge associated with the facility interface combination for the service being changed

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

. **7.4.1 Types of Rates and Charges (Cont'd)**

(B) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

In cases where multiple service rearrangements or a move and a service rearrangement are requested on a single order, the total charge (i.e., the Service Rearrangement Charge or the Service Rearrangement Charge and the Move Charge) will never exceed the full nonrecurring charge for the basic service.

. **7.4.2 Surcharge for Special Access Service**

(A) General

In addition to the rates and charges described in Section 7.4.1 preceding, there is a monthly surcharge of $25.00 that applies to two-point Sub-voice grade, Voice grade and equivalent voice grade Special Access Services (e.g., the surcharge for a group level service would be $300.00 or 12 x $25.00). For multipoint services, the $25.00 surcharge applies for each end user location on the service.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

. **7.4.2 Surcharge for Special Access Service (Cont'd)**

. (A) General (Cont'd)

This surcharge compensates the Telephone Company for use of the local exchange network when Special Access Service is connected to a PBX or equivalent device which is capable of interconnecting the Special Access Services with local exchange service. The Telephone Company will automatically bill the appropriate surcharge on each Special Access Service installed irrespective of whether the interconnection capability exists in the customer's premises equipment or in a Centrex-CO type switch unless the service is exempt from the surcharge as set forth in (B) following.

. (B) Exceptions to the Surcharge Application

. There are two means by which the customer may be exempted from the monthly surcharge. First, if the customer certifies that the Special Access Service is terminated in a device not capable of interconnecting the service with local exchange service, no surcharge will apply. Second, if the customer certifies that the Special Access Service is associated with a Switched Access Service in the same LATA that is subject to Carrier Common Line Charges, no surcharge will apply.

. (C) Certification

. The certification will be in the form of a written notification to the Telephone Company. The notification may be provided; (1) at the time the service is ordered or (2) at such time as the service is reterminated to a device not capable of interconnecting to the local exchange network or (3) at such time as the Special Access Service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(C) Certification (Cont'd)

If a written certification is not received at the time an order for service is placed, the surcharge will be applied. Exempt status will become effective on the date certification is received by the Telephone Company. {1}

(D) Crediting the Surcharge

The Telephone Company will cease billing the surcharge when certification that the service has become exempt from the surcharge as set forth in (C) preceding is received. If the status of the service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account based on the effective date of the change specified by the customer in the letter of certification.

7.4.3 Minimum Periods

Special Access Service is provided for a minimum period of one month. An exception to the minimum period exists for part-time and occasional Video and Program Audio Services which may be ordered and paid for on a daily basis.

{1} For services which were installed prior to June 1, 1984, and where the certification is received no later than December 31, 1984, the effective date may be made retroactive to a date no earlier than June 1, 1984.

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.4 Rate Regulations (Cont'd)

. 7.4.4 Moves

. A move involves a change in the physical location of one of the following:

. - The point of interface at the IC terminal location
. - The IC terminal location
. - The network interface at the end user premises
. - The end user premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the service termination affected, i.e., the IC terminal location or the end user premises. There will be no change in the minimum period requirements. If a move is made at the same time a service rearrangement is made, the total charge will never exceed a full nonrecurring charge of the basic service.

(B) To a Different Building

. Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The IC will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.4 Rate Regulations (Cont'd)

. 7.4.5 **Rate Application Exception Rules**

(A) Intrabuilding Access Services

Intrabuilding cable facilities, provided by the Telephone Company to connect two IC terminal locations or an IC terminal location and an end user premises in the same public building, will be rated as an Access Connection and an appropriate facility interface combination. The Channel Mileage and Special Access Line rate elements will not apply to this type of service.

(B) IC Terminal Location to IC Terminal Location

. When two IC terminal locations are connected together via Special Access Service, the IC will be billed as though the service were connecting an IC terminal location and an end user premises, i.e., Access Connection, Channel Mileage, Features and Functions (facility interface combination) and Special Access Line. One of the IC terminal locations will be treated as an end user premises.

(C) End User to End User

. When two end user premises are connected together via Special Access Service, the IC will be billed as though the service were connecting an IC terminal location and an end user premises, i.e., Access Connection, Channel Mileage, Features and Functions (facility interface combination) and Special Access Line. The end user premises at which the service connects to intrastate service will be treated as an IC terminal location.

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.4 Rate Regulations (Cont'd)

7.4.6 Mileage Measurement

. The mileage to be used to determine the monthly rate for the Channel Mileage is calculated on the airline distance between the serving wire centers involved (i.e., IC serving wire center, Hub serving wire center, or end user serving wire center). The V&H coordinates method is used to determine mileage. This method is explained in the NATIONAL EXCHANGE CARRIER ASSOCIATION Tariff F.C.C. NO. 4 Serving Wire Center Information (V & H Coordinates).

Mileage is shown in Section 17.3.2 following in terms of mileage bands. To determine the charges to be billed, first compute the mileage using the V&H coordinates method, then find the band into which the computed mileage falls and apply the rates shown for that band to the actual number of miles. There are two rates that apply for each mileage band, i.e., a fixed rate for the band and a rate per mile.

When more than one Exchange Telephone Company is involved, the application of the Channel Mileage rate will be as specified in Section 2.4.7 preceding.

When Hubs are involved, mileage rates are computed separately for each section of the Channel Mileage, i.e., IC serving wire center to Hub, Hub to Hub, and/or Hub to end user serving wire center.

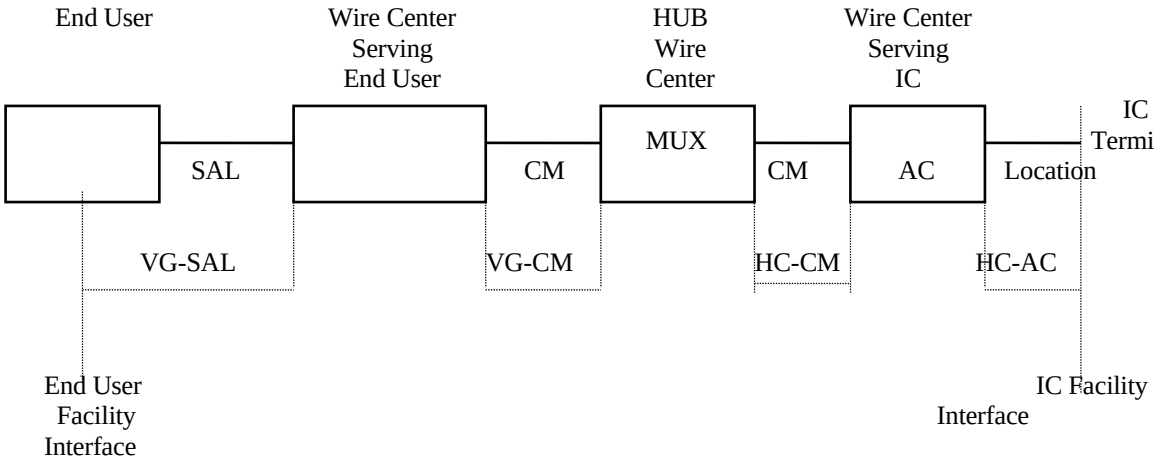
ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.4 Rate Regulations (Cont'd)

. 7.4.7 Facility Hubs

. An IC has the option of ordering high capacity analog or digital facilities (i.e., Group, Supergroup, DS1, DS1C, DS2, DS3 or DS4) to a facility Hub for channelizing to individual services requiring lower capacity facilities (e.g., Voice, Program Audio, etc.).



AC - Access Connection
CM - Channel Mileage
SAL - Special Access Line
MUX - Multiplexing Equipment
HC - High Capacity
VG - Voice Grade

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.4 Rate Regulations (Cont'd)

. 7.4.7 Facility Hubs (Cont'd)

. The Telephone Company will designate the facility Hub locations. Different locations may be designated as Hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. The IC will choose the desired Hub from a list that the Telephone Company will make available.

. Some of the types of multiplexing provided include the following:

. - from higher to lower bit rate
. - from higher to lower bandwidth
. - from digital to Voice Grade Service
. - from digital to Program Audio Service

. The transmission performance for the end to end service provided from the IC terminal location to the end user premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps service is multiplexed to voice frequency channels, the transmission performance will be voice grade, not high capacity.

. The Telephone Company will commence billing the monthly rate for the Access Connection and the Channel Mileage for the high capacity facility to the Hub as soon as it is provided, even though individual services utilizing those facilities may not be ordered and installed until a later date. If the IC has designated the type of multiplexing to be provided, the nonrecurring charge for the multiplexer will be billed to the IC at that time and the billing for the monthly rate will begin.

. Individual service rates (by service type) will apply for the facility interface combination, the Special Access Line, Special Access Service Surcharge, and additional Channel Mileage (if required) for each channelized service. These will be billed to the IC as each individual service is installed.

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.4 Rate Regulations (Cont'd)

. 7.4.8 Shared Use Analog and Digital High Capacity Services

. Shared use occurs when Special Access Service and Switched Access Service are provided over the same Wideband Analog or High Capacity facilities through a common interface. The facility will be ordered and rated as Special Access Service until such time as the customer chooses to use a portion of the available capacity for providing Switched Access Service. At that time the customer must place an order for Switched Access Service, designating a specific channel assignment for the service. As each individual channel is activated for Switched Access Service, the Special Access rates will be reduced accordingly (e.g., 1/12th for a group level services, 1/24th for a DS1 service, etc.).

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.5 Rates and Charges (Cont'd)

. **7.5.1 Features and Functions**

. (A) Optional Features and Functions

. (1) Voice Grade Services

. (a) Conditioning:

. Conditioning provides more specific transmission characteristics for data or telephoto services. There are two types of data conditioning, C-Type and DA-Type. C-Type conditioning controls attenuation distortion and envelope delay distortion; DA-Type conditioning controls the signal to C-notched noise ratio and intermodulation distortion. Telephoto conditioning controls attenuation distortion and envelope delay distortion.

. Conditioning is charged for on a per two-point service or each section (i.e., mid link or end link. The parameters listed for each type of conditioning apply from point of interface to network interface. For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to any path between any two service terminal points. C-Type and DA-Type conditioning are available only for data services. C-Type and DA-Type conditioning may be combined on the same service.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.5 Rates and Charges (Cont'd)

. **7.5.1 Features and Functions (Cont'd)**

. (A) Optional Features and Functions (Cont'd)

. (1) Voice Grade Services (Cont'd)

. (a) Conditioning: (Cont'd)

. (1) C-Type Conditioning

. For the additional control of attenuation distortion and envelope delay distortion on data services.

Attenuation Distortion (Frequency Response)
Relative to 1004 Hz

.

Frequency Range (Hz)	Variation (db)
400 - 2800	-1.0 to +2.0
300 - 3000	-1.0 to +3.0
300 - 3200	-2.0 to +6.0

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.5 Rates and Charges (Cont'd)

. **7.5.1 Features and Functions (Cont'd)**

. (A) Optional Features and Functions (Cont'd)

. (1) Voice Grade Services (Cont'd)

. (a) Conditioning: (Cont'd)

. (1) C-Type Conditioning (Cont'd)

Envelope Delay Distortion	
Frequency Range (Hz)	Variation (microseconds)
1000 - 2600	100
800 - 2600	200
600 - 2600	300
500 - 2800	600
500 - 3000 (available with VG5-10)	3000

See Section 17.3.3(D)(1)(a)(1) for Rates and Charges.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.1 Features and Functions (Cont'd)

(A) Optional Features and Functions (Cont'd)

(1) Voice Grade Services (Cont'd)

(a) Conditioning: (Cont'd)

(2) DA-Type Conditioning:

For the control of signal to C-notched noise ratio and intermodulation distortion on data services. DA type conditioning is available for two-point services or three-point multi-point services.

The signal to C-notched noise ratio and intermodulation distortion parameters for DA-Type conditioning are:

- Signal to C-Notched Noise Ratio is equal to or greater than 32dB.
- Intermodulation distortion:
- Signal to second order modulation products (R2) is equal to or greater than 38 dB.
- Signal to third order modulation products (R3) is equal to or greater than 42 dB.

When a service equipped with DA type conditioning is used for voice communications the quality of the voice transmission may not be satisfactory. (available with VG6, 7, 10)

See Section 17.3.3(D)(1)(a)(2) for Rates and Charges.

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.5 Rates and Charges (Cont'd)

. **7.5.1 Features and Functions (Cont'd)**

. (A) Optional Features and Functions (Cont'd)

. (1) Voice Grade Services (Cont'd)

. (b) Improved Return Loss for effective two-wire transmission at the end user premises. This option is applicable to all interfaces except E&M, SF & DX when the impedance code 2 is specified. The Improved Return Loss parameters are set forth in the Transmission Performance descriptions of the services with which this option is available. (available with VG2, 3, 7)

. See Section 17.3.3(D)(1)(a)(2) for Rates and Charges.

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.5 Rates and Charges (Cont'd)

. **7.5.1 Features and Functions (Cont'd)**

. (A) Optional Features and Functions (Cont'd)

. (1) Voice Grade Services (Cont'd)

. (c) Improved Return Loss at four-wire point of interface, applicable to each two-wire leg. The Improved Return Loss parameters are set forth in the Transmission Performance descriptions of the services with which this option is available. (available with VG1-3, 5-10)

. See Section 17.3.3(D)(1)(c) for Rates and Charges.

. (d) IC specified end user premises receive level within a range acceptable to the Telephone Company on effective four-wire transmission. (available with VG2, 3, 7, 8 & 9)

. See Section 17.3.3(D)(1)(d) for Rates and Charges.

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.5 Rates and Charges (Cont'd)

. **7.5.1 Features and Functions (Cont'd)**

. (A) Optional Features and Functions (Cont'd)

. (2) Program Audio Services

. (a) Gain Conditioning:
. Control of 1004 Hz AML at
. initiation of service to 0 dB +
. 0.5 dB. (available with AP1-11)

. See Section 17.3.3(D)(2)(a) for Rates and Charges.

. (b) Stereo - provision of a pair of
. gain/phase equalized channels
. for stereo applications.
. (additional AP channel must be
. ordered separately). (available
. with AP4)

. See Section 17.3.3(D)(2)(b) for Rates and Charges.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.5 Rates and Charges (Cont'd)

. **7.5.1 Features and Functions (Cont'd)**

. (A) Optional Features and Functions (Cont'd)

. (3) Digital Data Access Services

. Loop Transfer Arrangement - an arrangement that affords the end user an additional measure of protection to its access channel(s) on a 1xN basis. This arrangement is only available from a Telephone Company designated digital hub. A key activated control service is required to operate the transfer arrangement. This control service must be separately ordered from the appropriate Telephone Company Intra-LATA tariff. (available with DA1, 2, 3 & 4)

. See Section 17.3.3(D)(3) for Rates and Charges.

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.5 Rates and Charges (Cont'd)

. **7.5.1 Features and Functions (Cont'd)**

. (A) Optional Features and Functions (Cont'd)

. (4) High Capacity Services

. (a) Automatic Protection Switching: Switching equipment placed at both ends of a duplicate stand-by service to automatically switch the standby service to the active state in the event of service failure. Duplicate 1.544 Mbps Service must also be ordered.

. See Section 17.3.3(D)(4) for Rates and Charges.

ACCESS SERVICE

7. Special Access Service (Cont'd)

. 7.5 Rates and Charges (Cont'd)

. **7.5.2 Special Access Lines**

. Optional Feature

. Hybrid:
. Provides conversion from 4-wire SAL to 2-wire termination at end user premises. Required to meet effective four-wire performance with a 2-wire end user premises facility interface.

. See Section 17.3.4 for Rates and Charges.

ACCESS SERVICE

8. Billing and Collection Services

8.1 Recording Service

For Feature Group C and D Switched Access Service, the term "Customer message" used herein denotes a completed call originated by a Customer's end user. A Customer message begins when answer supervision from the Customer terminal location is received by Telephone company recording equipment indicating that the called party has answered. A Customer message ends when disconnect supervision is received by Telephone Company recording equipment from either the Customer terminal location or the Customer end user premises from which the call originated.

For Feature Group A Switched Access Service, the term "customer message" used herein denotes a completed call over an intrastate Feature Group A Switched Access Service. A completed call includes both completed calls originated to and terminated from a Feature Group A Switched Access Service. A customer message begins in the originating direction when the off-hook supervision provided by the premise of the ordering customer is received by Telephone Company recording equipment. A customer message begins in the terminating direction when answer supervision is received by Telephone Company recording equipment indicating the called party has answered. A customer message ends in the originating direction when disconnect supervision is received by Telephone Company recording equipment from the premise of the ordering customer. A customer message ends in the terminating direction when disconnect supervision is received by Telephone Company recording equipment from either the premise of the ordering customer or the called party.

8.1.1 General Description

Recording Service is the recording of the details of a Customer message and, when requested by the Customer, the provision of those details to the Customer. Recording Service includes recording, assembly and editing, and provision of recorded Customer message detail.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.1 General Description (continued)

Recording is the entering on magnetic tape or other acceptable media the details of Customer messages originated through Switched Access Service for which answer and disconnect supervision has been received. Recording is provided 24 hours a day, 7 days a week.

Assembly and editing is the aggregation of the recorded Customer message details to create individual messages and the verification that the data required for rating, in accordance with the standard format established by the Telephone Company, is present. Assembly and editing is performed at least once a week.

Provision of Customer message detail is the provision of magnetic tapes containing the assembled and edited Customer message detail and when requested by the Customer, data-transmitting the assembled and edited Customer message detail to the Customer. Sorting the message detail, and providing name and address information for the message detail. Except for lost or damaged records, the recorded detail will be available to the Customer not more than five business days after the date all the detail requested by the Customer was processed by the Telephone Company.

8.1.2 Undertaking of the Telephone Company

(A) The Telephone Company will record all Customer messages carried over Feature Groups C and D Switched Access Service that are available to Telephone Company provided recording equipment or operators. The Telephone Company will record all customer messages, including interLATA intrastate messages and interLATA interstate messages, carried over a Feature Group A Switched Access Service.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.2 Undertaking of the Telephone Company (continued)

(A) (continued)

Unavailable Customer messages (i.e., certain Feature Group C operator and TSPS messages which are not accessible by Telephone Company provided recording equipment or operators) will not be recorded. The recording equipment will be provided at locations selected by the Telephone Company. Assembly and editing will be performed on all Customer messages recorded during the billing period established by the Telephone Company. Except as set forth in Section 8.1.2 (F) and Section 8.1.3 following, recorded message detail from previous billing periods will not be recovered and made available to the Customer.

(B) A standard format for the provision of the recorded Customer message detail will be established by the Telephone Company and provided to the Customer. If, in the course of Telephone Company business, it is necessary to change the format, the Telephone Company will notify the involved Customers six months prior to the change.

(C) The recorded Customer message detail provided to the Customer will, when requested by the Customer, be sorted to furnish detail to meet the customer's need.

Also name and address information will, when requested by the customer and to the extent and required names and addresses are available in the Telephone Company customer information data bases, be provided for the recorded customer message detail.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.2 Undertaking of the Telephone Company (continued)

(C) (continued)

The sorting will be provided in accordance with the specifications the customer provides when it orders recorded customer message detail with sorting. If the information necessary to sort the recorded message detail as requested by the customer is not available in the recorded message detail (i.e., a sort based on any other information other than calling number or called number), the Telephone Company will provide the sorting if (1) the information necessary to perform the sort is contained in its customer information data bases, or the Wire Center Information as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 4 or (2) the customer provides the necessary information. If the sorting is to be performed using information which is confidential due to legal, national security, end user or regulatory imposed requirements, the information will not be used unless the customer secures written permission from the end user for the Telephone Company to use such information as requested by the customer.

The name and address information will be provided with the recorded customer message detail and included on the magnetic tapes containing the recorded customer message detail. The name and address information will be provided in a format in accordance with the specifications the customer provides when it orders recorded customer message detail. The name and address information will be obtained by the Telephone Company from its customer information data bases. The name and address information will be provided for the calling number shown in the recorded customer message detail to the extent a name and address exists in the Telephone Company customer information data bases (e.g., some calling number names and addresses may be confidential). If the name and address information for a specific calling number is confidential due to legal, national security, end user or regulatory imposed requirements, the name and address information will not be used unless the customer secures written permission from the end user for the Telephone Company to use the information as requested by the customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.2 Undertaking of the Telephone Company (continued)

(D) When sorting of recorded customer message detail and/or name and address information is provided to the customer, the interval, minimum period and charges to provide the sorting and/or name and address information will be determined on an individual case basis. Recorded Customer message detail with or without sorting and names and addresses will be provided to a customer as set forth in (E) following. The Telephone Company will determine the number of magnetic tapes or data files required to provide the recorded message detail to the Customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.2 Undertaking of the Telephone Company (continued)

(E) At the request of a Customer, magnetic tapes containing the recorded Customer message details with or without sorting and names and addresses will be provided to a Customer as part of Recording Service. The magnetic tapes will be provided without the return of previously supplied tapes. The Telephone Company will supply the magnetic tapes. Unless specified otherwise by the Customer, the magnetic tapes will be sent to the Customer via first class U.S. Mail service. However, the Customer may pick up the magnetic tapes at a location designated by the Telephone Company or request that the detail on the magnetic tapes or in a data file be data-transmitted to the Customer. When the recorded Customer message details are data-transmitted to a Customer premises, the data transmission charges will be determined on an individual case basis. When the Customer does not wish to receive the recorded Customer message details, except when sorting and name and address information is provided and the Telephone Company receives notice from the Customer at least two weeks prior to the date the details would be sent to the Customer, the charge as set forth in Section 17.4.1(C) does not apply. When sorting and name and address information is provided and the Customer does not wish to receive the recorded customer message detail, the terms and conditions will be as set forth in the individual case basis agreement.

(F) Recorded Customer message detail which is used at the request of the Customer to provide message Processing and Message Bill Processing Service is not retained by the Telephone Company for longer than 45 days. The rated but unbilled message detail and the billed message detail is retained for reference (i.e., on paper or microfiche in place of the recorded Customer message detail.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.2 Undertaking of the Telephone Company (continued)

(F) (continued)

For recorded Customer message detail not used by Message Processing Service at the Customer's request, the Telephone Company will make every reasonable effort to recover recorded Customer message detail previously made available to the Customer and make it available again for the Customer. The charges as set forth in Section 17.4.1(C) following will apply for all such detail provided. When the recorded Customer message details are data-transmitted to a customer premises, the data transmission charges will be determined on an individual case basis. Such a request must be made within 30 days from the date the details were initially made available to the customer.

8.1.3 Liability of the Telephone Company

Notwithstanding Section 2.1.3 preceding, the Telephone Company liability for Recording Service is as follows:

(A) If Customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost Customer messages and associated revenue based on previously known values. This estimated Customer message volume will be included along with the Customer message detail provided to the Customer and/or provided for Message Processing Service. In such events the extent of the Telephone Company's liability for damages shall be limited to the granting of a corresponding credit adjustment to the Customer amounts due to account for the unbillable revenue.

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ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.3 Liability of the Telephone Company (continued)

(B) When the Telephone Company is notified that, due to error or omission, incomplete data have been provided to a Customer, the Telephone Company will make every reasonable effort to locate and/or recover the data and provide new magnetic tapes to the Customer at no additional charge. Such request to recover the data must be made within 30 days from the date the details were initially made available to the Customer. If the data cannot be recovered, the extent of the Telephone Company's liability for damages shall be limited as set forth in (A) preceding.

(C) In the absence of willful misconduct, no liability for damages to the Customer or other person or entity other than as set forth in (A) and (B) preceding shall attach to the Telephone Company for its action or the conduct of its employees in providing Recording Service.

8.1.4 Obligations of the Customer

(A) The Customer shall order Recording Service under a Special Order where the service is desired.

The Customer shall order Recording Service at least one month prior to the date when the Customer message detail is to be recorded.

(B) The Customer shall order provision of recorded Customer message detail without sorting or name and address information at least one month prior to the date when it wishes to receive the recorded message detail. However, the Customer may wish to receive magnetic tapes of the recorded detail or without sorting or name and address information have the recorded detail data-transmitted to a Customer premises at sometimes and not at others. Therefore, change in the provision of recorded Customer message detail without sorting or name and address information to the Customer will be accommodated provided the Customer gives two weeks advance written notification to the Telephone Company.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.4 Obligations of the Customer

(B) (continued)

For recorded Customer message detail with sorting and/or name and address information, the Customer shall order the detail in accordance with the terms and conditions of the individual case basis established and filed in this tariff to cover the provision of recorded customer message detail with sorting and/or name and address information.

(C) The premises of the ordering Customer shall provide such signals as may be required for the proper operation of the Telephone Company's automatic message accounting equipment used to perform the detail recordings.

8.1.5 Payment Arrangements and Audit Provision

(A) Audit Provision

Upon reasonable written notice by the Customer to the Telephone Company, the Customer shall have the right through its authorized representative to examine and audit, during normal business hours and at reasonable intervals as determined by the Telephone Company, all such records and accounts as may under recognized accounting practices contain information bearing upon the recording of messages for which amounts may be payable to the Customer. Adjustment shall be made by the proper party to compensate for any errors or omissions disclosed by such examination or audit.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.5 Payment Arrangements and Audit Provision (continued)

(A) Audit Provision (continued)

Neither such right to examine and audit nor the right to receive such adjustment shall be affected by any statement to the contrary, appearing on checks or otherwise, unless such statement expressly waiving such right appears in a letter signed by the authorized representative of the party having such right and delivered to the other party.

All information received or reviewed by the Customer or its authorized representative is to be considered confidential and is not to be distributed, provided or disclosed in any form to anyone not involved in the audit, nor is such information to be used for any other purpose.

(B) Minimum Period and Minimum Monthly Charge

The minimum period for which Recording Service without sorting or name and address information is provided and for which charges apply is one month for each state in which the service is ordered.

The minimum monthly charges are the charges for Customer messages recorded, Customer messages assembled and edited (except when Message Processing Service is ordered for the same monthly period) and when ordered by the Customer, provision of Customer message detail without sorting or name and address information on magnetic tapes or data files. If the service is canceled or discontinued prior to entering the Customer message detail on magnetic tapes or data files, the minimum monthly charge will be the charge for all Customer messages recorded, assembled and edited for a 30 day period. The Telephone Company will use the most recent 30 day period for which data is available to determine the minimum charge.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.5 Payment Arrangements and Audit Provision (continued)

(C) Cancellation of a Special Order

An Customer may cancel a Special Order for Recording Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the Customer that the Special Order is to be canceled. The verbal notice must be followed by written confirmation within 10 days. The service date for Recording Service is the date the Customer requests the recordings to start.

When a Customer cancels a Special Order for Recording Service after the order date but prior to the start of service, the minimum monthly charges will apply.

(D) Changes to Special Orders

When a Customer requests changes to a pending Special Order for Recording Service, the pending Special Order will be canceled and the requested changes will be undertaken if they can be accommodated by the Telephone Company under a new Special Order. Material changes to a pending Special Order for Recording Service include changes in the location and/or number of Telephone Company recording locations, changes in sorting parameters, provisions of end user phone number and address, provision of data transmission to a Customer location of Customer recorded message detail, and changes in schedules, dates or intervals for receipt of Customer recorded message detail.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.5 Payment Arrangements and Audit Provision (continued)

(D) Changes to Special Orders (continued)

Nonmaterial changes to a pending Special Order include changes in Customer name, Customer address and Customer requests to receive Recording Service output at the Telephone Company location instead of through U.S. Mail. All cancellation charges as set forth in (C) preceding will apply for the canceled Special Order.

8.1.6 Rate Regulations

(A) For each Customer message recorded, the recording and the assembling and editing charges apply except when the Customer orders Message Processing Service. When Message Processing Service as set forth in 8.2.1 following is ordered for the same state and month that Recording Service is ordered, the assembling and editing charge does not apply per Customer message.

The charges for recording and for assembly and editing apply per message recorded and per message assembled and edited whether or not the Customer's schedule of rates specifies billing on a per message basis or any other basis.

(B) The per Special Order charge applies for each Special Order accepted by the Telephone Company for Recording Service.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.1 Recording Service (continued)

8.1.6 Rate Regulations (continued)

(C) When message detail, with or without sorting and/or address information is entered on a data file or magnetic tape for provision of message detail to a Customer, the per tape charge applies for each data file or magnetic tape prepared, and the per record charge applies for each record processed. A record is a logical grouping of information as described in the programs that process the information and load the magnetic tapes or data file. The Telephone Company will determine the charges based on the number of data files or magnetic tapes prepared and on its count of the records processed. The number of records processed will be determined using the number of records input to or the number of records output from the programs that process the information and load the magnetic tapes or data file, whichever number of records is higher.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service

At the request of a Customer, the Telephone Company with reasonable notice and reasonable effort will provide Billing Service. The Telephone Company will provide Billing Service in its operating territory. The minimum territory for which the Telephone Company will provide Billing Service is its state operating territory when the Telephone Company supplies the input records at the Customer's request. When the customer supplies the input records, the Telephone Company will process the input records supplied by the Customer as set forth in Section 8.2.1 and Section 8.2.2 following.

The Telephone Company will provide two types of Billing Service: 1) Message Billing Service as set forth in Section 8.2.1, and 2) Private Line Billing Service as set forth in Section 8.2.2 following.

The Telephone Company will provide Bill Processing Service and Private Line Billing Service only on the condition that (1) it purchases the accounts receivable, if any, from the Customer as set forth in Section 8.2.3 following or (2) the Telephone Company agrees to act as billing agent for the Customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

The Telephone Company will not render bills under this tariff for the provision and/or delivery of telegrams, flowers, gifts, wine or other like services that a Customer offers.

8.2.1 Message Billing Service

Message Billing Service consists of Message Processing Service and Bill Processing Service. A Customer may order Message Processing Service or Bill Processing Service or both services.

(A) General Description

(1) Message Processing Service

Message Processing Service is the transforming of the recorded Customer call details into rated messages in preparation for billing. Message Processing Service includes initial data entry and rating of messages.

Initial data entry is the assembly of recorded Customer call details into Customer messages. This function includes editing and verification of recorded details to assure that the data required for rating are present.

Rating of Customer messages is the computing of applicable charges for each Customer message based on the Customer provided schedule of rates. Rating also includes the preparation of Customer message detail for input to Bill Processing Service, the Customer, or other entities.

Further, rating is always performed and editing may be performed coincident with the implementation of a change in the Customer's schedule of rates.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(A) General Description (continued)

(2) Bill Processing Service

Bill Processing Service is the preparation of bills for message-billed service and bulk-billed service, mailing of statements of the amounts due for service received from the Customer and the collection of deposits and monies due from the end users. Bill Processing Service includes message-billed (when necessary) and bulk-billed account establishment, posting of rated messages and rate elements, rendering of bills, collection of deposits, receiving payments, maintenance of accounts, treatment of accounts, message investigation and inquiry (when ordered by the Customer).

Bulk-billed service is a billing service for an end user account with a Switched Access Line where individual Customer messages are not posted to the account and are not listed on the bill rendered to the end user.

Message-billed service is a billing service for an end user account with an end user common line where individual Customer messages are posted to the account and are listed on the bill rendered to the end user. Message-billed service is also a billing service for a Customer credit card end user account without an end user common line or Switched Access Line where individual messages or groups of messages are posted to the account and listed on the bill rendered to the end user.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(A) General Description (continued)

(2) Bill Processing Service (continued)

Account establishment is the preparation of an Customer end user record so that a bill can be sent to that end user.

Posting of rated messages is the processing for billing of rated messages. Posting also is the examination and identification of all the ratable elements specified by the Customer to be billed to an end user. Application of appropriate Customer rates and charges to all such rate elements is also included when requested by the Customer. The rating may be performed by the Telephone Company, another entity or the Customer. Editing and rating of rate elements is performed when Customer services are established or changed. Rating is always performed and editing may be performed coincident with the implementation of a change in the Customer's schedule of rates.

Rendering of bills is the preparation and mailing of statements of the deposits and amounts due from the end user for Customer message billed and bulk-billed services. These statements may, at Telephone Company choice, be included as part of the regular monthly bill for local Telephone Exchange Service mailed to the end user.

Receiving payment and maintenance of accounts is the collecting of monies from end users for services furnished by the Customer and maintenance of records of all transactions.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(A) General Description (continued)

(2) Bill Processing Service (continued)

Treatment of accounts is the forwarding of notices of delinquent or unpaid end user accounts, posting of credits and adjustments, and when necessary as determined by the Telephone Company, denial of the customer's services and/or local telephone exchange services to an end user. Where local telephone exchange service access is denied, access to Customer service will also be denied.

Message investigation is the activity undertaken by the Telephone Company to secure, or attempt to secure, proper billing information for Customer messages.

Inquiry is the answering of end user questions about charges billed for Customer services and application of credits and adjustments to end user accounts and review of Customer messages removed from an end user's bill.

(B) Undertaking of the Telephone Company

(1) Message Processing Service

(a) When Message Processing is ordered by an Customer, the Telephone Company will process all of the Customer messages it possesses in a state as set forth in (b) through (1) following at rates and charges set forth in Section 17.4.2(A) and (B).

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(1) Message Processing Service (continued)

(b) The Telephone Company will provide Message Processing Service only for Customer messages originating or recorded within the operating territory of the Telephone Company. The Customer messages which the Telephone Company will process may be Customer messages from Recording Service as set forth in Section 8.1 preceding or, at the direction of the Customer, other Customer messages which are chargeable in accordance with the rate schedule furnished by the Customer.

Any sent-paid coin Customer messages provided as input by the Customer will be processed unless the Customer specifies in writing that such Customer messages are not to be processed. When such Customer messages are processed, message processing charges will apply. When such messages are not processed, they may not be included in any Customer message detail provided to the Customer.

(c) A record of Customer call details is required to provide Message Processing Service. Where a Customer subscribes to Recording Service as set forth in Section 8.1 preceding, those recorded details may be used as the input. Where the Customer provides the call details, the records must be in the standard format established by the Telephone Company and delivered to the location specified by the Telephone Company. The charges as set forth in Section 17.4.2(L) following will apply if the Customer data-transmits its call details to the Telephone Company.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(1) Message Processing Service (continued)

(c) (continued)

If the Customer provided records must be converted by the Telephone Company to the standard format, and the Telephone Company agrees to make the conversion, the program development charges as set forth in Section 17.4.2(C) following apply for the hours required to design, develop, test and maintain the necessary programs. The assembling and editing charge, as set forth in Section 8.1.7(B) preceding, applies in addition to all other charges for all such details converted by the Telephone Company. The Telephone Company will provide to the Customer the precise details of the required standard format. If, in the course of Telephone Company business, it is necessary to change the standard format, the Telephone Company will provide notification to the involved Customers six months prior to the change. If the Customer requests the Customer provided call details be reprocessed by the Telephone Company because of an Customer error, the Telephone Company will reprocess the Customer provided call details and the appropriate charges as set forth in Section 17.4.2 following will apply.

(d) The Telephone Company will develop the Customer's schedule of rates into a rating program. Program development charges, as set forth in Section 17.4.2(C) following, apply for the hours required to design, develop, test and maintain the necessary programs.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(1) Message Processing Service (continued)

(e) Upon acceptance by the Telephone Company of a Special Order for Message Processing Service from an Customer, the Telephone Company will determine the period of time to implement such service on an individual order basis.

(f) Changes in the rate levels of Customer charges to be billed will normally be implemented within 30 days after receipt of a Special Order from the Customer requesting such changes. Such changes will require modifications of the rating program. Program development charges, as set forth in Section 17.4.2(C) following, apply for the hours required to design, develop, test and maintain the necessary program changes. If any Customer message detail must be reprocessed in order to apply the rate changes, the appropriate message processing charges as set forth in Section 17.4.2(A) and (B) following apply for all Customer messages reprocessed.

(g) Changes in the rate structure for Customer services to be billed also require a change in the rating program. When the Telephone Company determines that it can accommodate the changes, the conditions and the period of time required to make such changed will be determined on an individual order basis. Program development charges, as set forth in Section 17.4.2(C), apply for the hours required to design, develop, test and maintain the necessary program changes. If any Customer message detail must be reprocessed in order to apply the rate structure changes, the appropriate message processing charges as set forth in Section 17.4.2(A) and (B) following apply for all Customer messages reprocessed.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(1) Message Processing Service (continued)

(h) Where the Telephone Company has rated Customer messages which are to be billed to an end user by another exchange Telephone Company, the Telephone Company will enter the Customer messages on a magnetic tape or data file which can be used for data transmission of the details. When the Customer has so arranged with an involved exchange Telephone Company, the Telephone Company will transmit the rated Customer message details to such other exchange Telephone Company for billing to end users in its operating territories. When the Customer does not have billing arrangements with an exchange Telephone Company, rated Customer messages for billing to the end user, such an exchange Telephone Company will be delivered to the Customer. The charges as set forth in Section 17.4.2(D) apply to rated Customer messages that are data-transmitted to the other exchange telephone companies. The charges as set forth in Section 17.4.2(E) apply to rated Customer messages that are delivered to the Customer. When the Customer message details are data-transmitted to the Customer location designated by the Customer, the data transmission charges will be determined on an individual case basis. Program development charges as set forth in Section 17.4.2 apply for the hours required to design, develop, test and maintain the necessary programs.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(1) Message Processing Service (continued)

(i) Where the rates for Customer services have been implemented under an accounting order pending final approval from a regulatory agency, the Telephone Company will, upon written request from the Customer, keep such records as may be required to make any adjustments to the end users as may be ordered by the regulatory agency. The charges for such a service will be determined on an individual case basis.

(j) The Telephone Company will, upon request, provide the Customer the rated Customer message detail.

The rated Customer message detail will be provided on a request-by-request basis in a format similar to that used by the Telephone Company as input to Bill Processing Service. All rated Customer message detail available to the Telephone Company will be provided to the Customer. The rated Customer message detail will not be sorted to furnish detail by specific end users, groups of end users, by office or by location.

The Telephone Company will provide the Customer detail on a magnetic tape. The magnetic tapes will be provided without the return of previously supplied tapes. The Telephone Company will supply the magnetic tapes. Program development charges, as set forth in Section 17.4.2(C), apply for the hours required to design, develop, test and maintain the necessary programs. When a magnetic tape is provided, the charges as set forth in Section 17.4.2(E) also apply.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(1) Message Processing Service (continued)

(j) (continued)

Unless specified otherwise by the Customer, the magnetic tapes will be sent to the Customer using first class U.S. mail service. However, the Customer may pick up the magnetic tapes at a location designated by the Telephone Company or request the information on the magnetic tapes be data-transmitted to the Customer. When the information is data- transmitted to a Customer location, the data transmission charges will be determined on an individual case basis.

(k) If the Customer makes a request within 30 days of the date the Customer details were initially made available to the Customer, the Telephone Company will make a reasonable effort to recover the Customer detail and make it available again to the Customer. The charges as set forth in Section 17.4.2(E) will apply for all such Customer detail provided. When the Customer details are data-transmitted to a Customer location, the data transmission charges will be determined on an individual case basis.

(l) IC messages which the Telephone Company processes that cannot be rated in accordance with the Customer rate schedule will be reviewed by Telephone Company message investigation groups. Upon completion of the review, rated Customer messages will be delivered to the Customer when the Customer orders such service or to Bill Processing Service when the Customer orders such service. Unrated messages will be handled in accordance with instructions that have been mutually determined by the Telephone Company and the Customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(1) Message Processing Service (continued)

(l) (continued)

At the request of the Customer, the unrated Customer messages will be reviewed for unauthorized use of the Customer service by Telephone Company message investigation groups for a period of up to 90 days after the Customer message was processed. The appropriate charges, as set forth in Section 17.4.2(E) or Section 17.4.2(G) and Section 17.4.2(H), will apply.

(2) Bill Processing Service

(a) When Bill Processing Service is ordered by a Customer, the Telephone Company will establish and maintain end user accounts and prepare and render bills for all Customer messages, bulk-billed messages and related rate elements it possesses for a state as set forth in (b) through (n) following at rates and charges as set forth in Section 17.4.2 The Telephone Company will not establish an end user account with any Customer balance due. In addition, the Telephone Company will, in accordance with Telephone company deposit regulations, determine and collect a deposit from the end user for the Customer service. The Telephone Company will, when necessary in accordance with the Telephone Company deposit regulations, determine and collect the service deposit when an end user account is established or for established accounts when the first Customer message is posted to the end user account.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(2) Bill Processing Service (continued)

(a) (continued)

The Telephone Company will, when necessary in accordance with the Telephone Company deposit regulations, maintain a service deposit balance for each end user account. Service deposits will not be maintained by individual Customer accounts but will be maintained for the end user account in general. The Telephone Company will provide the Customer a copy of its service deposit regulations upon request from the Customer.

(b) The Telephone Company will provide Bill Processing Service for message-billed service, bulk-billed service and related rate elements which are posted to end user accounts located within the operating territory of the Telephone Company only. The Telephone company will separate the rated Customer messages into a message-billed group and a bulk-billed group for application of rates as set forth in Section 17.4.2.

(c) At the request of the Customer, the Telephone Company will prepare and distribute Customer credit cards by first class U.S. Mail service. The Telephone Company will assign the credit card number and will mark its records and files to show that an end user has been issued a Customer credit card.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(2) Bill Processing Service (continued)

(c) (continued)

The Telephone Company will specify the information it requires to issue a credit card and the format to be used by the Customer in furnishing such information. The charges as set forth in Section 17.4.2(M) apply. Plastic coated paper cards will be distributed unless the Customer requests another type of card be provided. Charges to prepare and distribute other such cards will be developed on an individual case basis. When it becomes necessary as determined by the Telephone Company to change the credit card number or discontinue the billing of credit card calls to an end user account because of nonpayment of charges or unauthorized use of Telephone Company and Customer service offerings, the Telephone Company will notify the Customer. The Telephone Company will provide the Customer the credit card number, associated end user account name and billing address for the credit card number change or billing discontinued. All charges for calls associated with such a discontinued credit card after the Customer has been notified will become the responsibility of the Customer. End user questions concerning the issuing of Customer credit cards will not be handled by the Telephone Company.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(2) Bill Processing Service (continued)

(d) Rated Customer messages are required to provide Bill Processing Service. If the Customer subscribes to Message Processing Service as set forth in (1) preceding, the rated Customer messages may be used as the input. If the Customer provides the rated Customer messages, those Customer messages must be in the standard format established by the Telephone Company and delivered to the location specified by the Telephone Company. The charges as set forth in Section 17.4.2(L) apply if the Customer data-transmits its rated message data to the Telephone Company.

Such Customer provided rated message data must identify the end user account to be billed. If the Customer provided rated messages must be converted by the Telephone Company to the standard format and the Telephone Company agrees to make the conversion, program development charges as set forth in Section 17.4.2(C) apply for the hours required to design, develop, test and maintain the necessary programs. The assembling and editing charge, as set forth in Section 17.4.2 applies in addition to all other charges for all such rated Customer messages converted by the Telephone Company. The Telephone Company will provide to the Customer the precise details of the required format. If, in the course of Telephone Company business, it is necessary to change the format, the Telephone Company will notify the involved Customers six months prior to the change.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(2) Bill Processing Service (continued)

(d) (continued)

If the Customer requests the Customer-provided rated Customer messages be reprocessed by the Telephone Company because of a Customer error, the Telephone company will reprocess the Customer provided rated Customer messages and the appropriate charges as set forth in Section 17.4.2 will apply.

(e) For end user accounts in its operating territory where the Customer has ordered Bill Processing Service, the Telephone Company will bill all rated Customer messages provided by the Customer. The bill format will be determined by the Telephone Company.

(f) Upon acceptance by the Telephone Company of a Special Order for Bill Processing Service from a Customer, the Telephone Company will determine the conditions and the period of time to implement such service on an individual order basis. Program development charges, as set forth in Section 17.4.2(C) apply for the hours required to design, develop, test and maintain the necessary programs including any programs to rate, change the rates of or change the rate structure of any rate elements associated with the Customer services.

(g) The Telephone Company will provide Bill Processing Service only on the condition that (1) it purchases the accounts receivable from the Customer as set forth in Section 8.2.3 following or (2) the Telephone Company agrees to act as billing agent for the Customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(2) Bill Processing Service (continued)

(h) The Telephone Company will not provide any information related to Bill Processing Service accounts under this section of the tariff. Bill Processing Services information may be obtained as set forth in Section 8.4 following.

(i) The Telephone Company will, at the option of the Customer, provide message-billed Bill Processing Service with or without inquiry and bulk-billed Bill Processing Service with or without inquiry. When the Telephone Company provides inquiry, the Telephone Company will be responsible for contacts and arrangements with the Customer's end users concerning the billing, collecting, crediting and adjusting of the Customer service charges, except prior Customer balances due from end users, in accordance with written instructions furnished by the Customer. At the request of the Customer when the Customer has ordered inquiry, the billed Customer messages which are removed from an end user's bill in accordance with Customer inquiry instructions will be reviewed for unauthorized use of Customer service by Telephone Company message investigation groups for a period of up to 90 days after the billed Customer message has been removed from an end user's bill. For any billed Customer messages removed from an end user's bill in accordance with Customer inquiry instructions, the Telephone Company will make appropriate adjustments to the Customer's accounts receivable.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(2) Bill Processing Service (continued)

(i) (continued)

When the Telephone Company provides Bill Processing Service without inquiry, all contacts from Customer end users concerning the Customer bill amounts will be referred to the Customer, and the Telephone Company will only be responsible for contracts with Customer's end users concerning the collection of Customer service deposits and charges, except prior Customer balances due from end users. Inquiry will only be provided when the Customer is provided Bill Processing Service at the same time for the same state operating area.

(j) The Telephone Company will accept Customer gift certificates for payment from end users if the Customer agrees in writing to redeem all such gift certificates. The format of the gift certificate must be acceptable to the Telephone Company.

(k) Rated Customer messages input to Bill Processing Service which the Telephone Company cannot bill for any reason will be reviewed by the Telephone Company's message investigation groups. Upon completing of the review, the billable messages will be posted and the appropriate charges, as set forth in Section 17.4.2(G) and Section 17.4.2(H) will apply. Unbillable messages will be handled in accordance with instructions that have been mutually determined by the Telephone Company and the Customer. At the request of the Customer, the rated Customer messages which cannot be billed to an end user will be reviewed for unauthorized use of Customer service by Telephone Company message investigation groups for a period of up to 90 days after the rated Customer message was processed.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(2) Bill Processing Service (continued)

(l) The Telephone Company will post rated Customer messages to the appropriate end user account when it identifies a Customer message to be billed to an end user and will mark the appropriate end user account when a Customer credit card is issued to an end user. The Telephone Company will bill to an end user other Customer message-billed service charges, such as provision of a credit card, issuing of a credit card, blocking of third number billing, time and rate charges, and subscription charges when it receives an order for such services from an Customer. Other Customer message-related charges, such as directory assistance and DIAL-IT charges, will be billed to the end user based on Customer message data received from Message Processing Service or from the Customer. The Telephone Company will make adjustments to end user balances due to account for application of credits authorized by Customer inquiry instructions and Customer furnished statements.

(m) The Telephone Company will establish an end user account for Customer bulk-billed service when it receives an order from a Customer to perform such activity for a specific end user and will bill Customer bulk-billed charges to the end user.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(2) Bill Processing Service (continued)

(m) (continued)

Telephone Company will bill other Customer bulk-billed rate elements, such as provision of a bulk-billed service access line, installation of an access line and provision of an access line extension, when it receives a Special Order for such services from a Customer. Other Customer message-related charges for bulk-billed service, such as directory assistance and DIAL-IT charges, will be billed to the end user based on Customer message data received from Message Processing Service or from the Customer. The Telephone Company will make adjustments to end user balances due to account for application of credits authorized by Customer inquiry instructions and Customer furnished statements.

(n) Where the rates for Customer services have been implemented under an accounting order pending final approval from a regulatory agency, the Telephone Company will, upon written request from the Customer, keep such records as may be required to make any adjustments to the end users as may be ordered by the regulatory agency. The charges for such a service will be determined on an individual case basis.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(3) Message Billing Service Ordering

(a) The Telephone Company will provide Message Billing Services under a Special Order. For all Message Billing Service, other than establishment of or changes to end user account data (including credit card data), establishment of or changes to end user account rate elements and changes to end user balances due, the Message Billing Service Special Order charge as set forth in Section 17.4.2(N) will apply to orders accepted by the Telephone Company. The format of this Special Order will be specified by the Telephone Company.

(b) The Telephone Company will arrange with the Customer to accept under a Special Order end user account information to establish and change end user account data (including credit card data), establish and change end user account rate elements and change end user balances due. The methods, procedures and manner in which the end user account data and changes are forwarded to the Telephone Company. The charges to handle such Special Orders will be determined on an individual case basis.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(C) Liability of the Telephone Company

Not withstanding liabilities identified in Section 2.1.3 preceding, the Telephone Company liability for Message Billing Service is as follows:

(1) If Bill Processing Service detail is not available because the Telephone Company lost or damage records or incurred processing system outages, the Telephone Company will attempt to recover the lost Customer detail. If the lost Customer detail cannot be recovered and the Telephone Company recorded the details the Customer detail and the extent of the Telephone Company's liability for damages will be as set forth in Section 8.1.3(A) preceding. If the lost Customer detail cannot be recovered and the Customer provided the detail, the Customer will be requested to resupply the detail. If the Customer cannot resupply the detail, the detail and the extent of the Telephone Company's liability for damages will be as set forth Section 8.1.3(A) preceding. This recovered detail will be included in message detail provided to the customer when the Customer orders such service and any recovered Customer messages will be billed.

(2) When the Telephone Company is notified that, due to its error or omission, incomplete Customer detail has been provided, as set forth in Section 8.2.1(B)(1)(i) preceding and/or Section 8.4 following, to a Customer, the Telephone Company will make a reasonable effort to recover and provide the Customer detail to the Customer at no additional charge. Such request to recover the Customer detail must be made within 30 days from the date the Customer detail was initially made available the Customer. If the detail cannot be recovered, the extent of the Telephone Company's liability for damages shall be limited as set forth in Section 8.1.3(A) preceding.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(C) Liability of the Telephone Company

(3) If the Telephone company finds, or is notified of, an error in billing to an end user, it will make a reasonable effort to correct the error and bill the appropriate end user within the limits permitted by laws of the state in which it provides the service. If the error is caused by the Telephone Company and the Telephone Company cannot timely bill the proper end user, the extent of the Telephone Company's liability for damages will be the known amount misbilled or when the amount misbilled is unknown, limited as set forth in Section 8.1.3(A).

(4) In the absence of willful misconduct, no liability for damages to the Customer or other person or entity other than as set forth in (1), (2) and (3) preceding shall attach to the Telephone Company for its action or the conduct of its employees in providing Message Billing Service.

(D) Obligations of the Customer

(1) The Customer shall order Message Billing Services under a Special Order for each state where service is desired. The Customer shall be responsible for all balances due from end users that exist prior to ordering Bill Processing Service.

At the time Message Processing Service and/or Bill Processing Service is initially ordered, the Customer shall order the service for 1, 3 or 5 years. Thereafter, upon six months' written notice, additional service may be ordered for 1, 3 or 5 years at the rates and charges as set forth in (G) following, the Customer may order inquiry for a service period that is different from that for Bill Process.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(D) Obligations of the Customer

(1) (continued)

However, the Customer shall not order inquiry unless it also has ordered Bill Processing Service for the same period and the same state operating area. Not later than six months prior to the end of an order period, the Customer shall notify the Telephone Company in writing if any service is to be discontinued at the end of the period. If no notice is received from the Customer, the Telephone Company will automatically extend the services for another year, using the most recent 12 months of capacity provided. The Customer will be notified by the Telephone Company when such an extension is made. All appropriate charges, as set forth in Section 17.4.2, for another year will apply and the minimum charges will be based on the most recent 12 months of message capacity and/or bill capacity provided.

(2) When Message Processing Service is ordered, the Customer shall furnish the Telephone Company, for each year in the order, an estimate of the number of messages (message capacity), including those messages which will be bulk-billed, to be processed. In addition, when Bill Processing Service is ordered, the Customer shall furnish the Telephone Company for each state and for each year in the order, an estimate of the number of message-billed and/or bulk-billed messages (bill capacity) for which billing is to be provided. Separate estimates shall be furnished by message-billed messages and bulk-billed messages. The capacity estimate for inquiry for each state and each year shall be the same as that for message-billed and/or bulk-billed messages.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(D) Obligations of the Customer

(3) The Customer shall furnish all information necessary for the Telephone Company to provide the Message Billing Service, including any per month service charges applicable to an end user and an affidavit that states whether the Customer service is subject to any Federal taxes and/or State taxes. When Customer messages are to be billed by an entity other than the Telephone Company, the Customer shall furnish written instructions as to how the rated Customer messages are to be provided to that other entity. If the Customer does not furnish complete instructions, all resulting unbillable messages will be delivered to the Customer. The information shall be furnished by the Customer in a timely manner.

(4) The Customer shall furnish to the Telephone Company a written schedule of its rates and charges in sufficient time to allow the Telephone Company to establish a rating program. The Customer's rate structure must be consistent with established Telephone Company rating methodologies. The interval required to establish a rating program must be mutually agreeable to the Telephone Company and the Customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(D) Obligations of the Customer (continued)

(5) When the Customer orders Bill Processing Service, it shall authorize the Telephone Company in writing to deny service to end users for nonpayment. If that authorization is not received, Bill Processing Service will not be provided.

(6) The Customer shall be responsible for all contact and arrangements, including prior Customer balances due from end users, with its end users concerning the provision and maintenance of the Customer's service.

(7) When the Customer orders message-billed or bulk-billed Bill Processing Service with inquiry, the Customer shall furnish to the Telephone Company written instructions, which are agreeable to the Telephone Company, for the handling of end user questions about bills.

When the Customer orders message-billed or bulk-billed Bill Processing Service without inquiry, the Customer shall furnish the Telephone Company with written instructions as to where inquiries are to be referred.

When the Customer does not order inquiry service and desires credit adjustments be made to the end user balance due, the Customer shall furnish a statement for each end user account where the credit is desired. These statements shall show the Customer message, the date the Customer message was billed and the amount of the credit. These statements shall be furnished to the Telephone Company under a Special Order as set forth in (B)(3)(b) preceding.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(D) Obligations of the Customer (continued)

(7) (continued)

The Customer shall notify its end users through its tariff or other appropriate means when the Customer handles the bill inquiries. The Customer shall furnish the Telephone Company in writing all end user bill adjustment statements.

(8) The Customer will immediately redeem all Customer gift certificates the Telephone Company receives in payment for any end user charges. The Customer agrees to use a gift certificate format which is agreeable to the Telephone Company.

(9) The Customer agrees to permit the Telephone Company to, when necessary in accordance with Telephone Company deposit regulations, determine and collect Customer deposits from all end users of the Customer services for which the Telephone Company provides billing for the Customer. The Customer will notify its end users through its tariffs or other means that the Telephone Company will, when necessary in accordance with Telephone Company deposit regulations, determine and collect Customer service deposits. The Customer will also include in its tariff and service arrangements and obtain regulatory concurrence for the deposit regulations that the Telephone Company will use to determine and collect end user service deposits.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(D) Obligations of the Customer (continued)

(10) When the Customer desires that a credit card be issued by the Telephone Company for an end user, the Customer shall furnish the credit card information as specified by the Telephone Company. The information shall include a statement from the Customer that the end user has requested the credit card. When the Customer is notified by the Telephone company that a Customer credit card billing is discontinued, the Customer shall notify the appropriate end user. The Customer also agrees to be responsible for all charges to the discontinued credit card after receipt of notice of discontinuance and all charges to a Customer credit card where the end user states in writing to the Telephone Company that the end user did not request the credit card.

(11) When the Customer furnishes recorded Customer detail for Message Processing Service and/or rated Customer message detail for Bill Processing Service, it shall be responsible to deliver the detail to the location specified by the Telephone company and it shall retain a copy of the detail furnished for at least 90 days.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(E) Payment Arrangements and Audit Provision

(1) Audit Provision

Upon written notice by the Customer to the Telephone Company, the Customer shall have the right, through its authorized representative, to examine and audit, during normal business hours and at reasonable intervals determined by the Telephone Company, all such records and accounts as may under recognized accounting practices contain information bearing upon the amount payable to the Customer. Adjustment shall be made by the proper party to compensate for any errors or omissions disclosed by such examination or audit. Neither such right to examine and audit nor the right to receive such adjustment shall be affected by any statement to the contrary, appearing on checks or otherwise, unless such statement expressly waiving such right appears in a letter signed by the authorized representative of the party having such right and delivered to the other party.

Any information received or reviewed by the Customer or its authorized representative during the audit is to be considered confidential and not to be distributed, provided or disclosed in any form to anyone not involved in the audit, nor is such information to be used for any other purpose.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(E) Payment Arrangements and Audit Provision

(2) Minimum Period

The minimum period for which Message Billing Service is provided and for which charges apply is one year. If the Customer orders Message Processing Service and/or Bill Processing Service for 3 or 5 years, then the minimum period and the period for which charges apply is that period ordered by the Customer. A minimum period of 1, 3, or 5 years, as ordered by the Customer, applies for each additional period of service ordered.

If the service is discontinued prior to the end of the Period ordered, monthly charges apply for each remaining month and fraction of a month. The monthly charge will be one-twelfth of the minimum yearly charge.

(3) Minimum Order Capacities and Minimum Yearly Charges

Message Billing Service is subject to minimum order capacities and minimum yearly charges. The minimum order capacities are the message capacity and bill capacity as specified in (a) following. The minimum yearly charge as specified in (b) or (c) following, Whichever is higher, shall apply.

(a) The message capacity ordered by the Customer for any year in a 3 or 5 year order for Message Processing Service shall not be lower than 25 percent of the largest message capacity ordered for any year in a 3 or 5 year order. The bill capacity ordered by the Customer for any year in a 3 or 5 year order for Bill Processing Service shall not be lower than 25 percent of the largest bill capacity ordered for any year in a 3 or 5 year order.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(E) Payment Arrangements and Audit Provision

(3) Minimum Order Capacities and Minimum Yearly Charges (continued)

(a) (continued)

The minimum yearly bill capacity for message-billed messages and bulk-billed messages will be determined separately based on the estimates the Customer furnishes as set forth in (D)(2) preceding. The minimum yearly capacity ordered for each year for inquiry shall be the same as that for message-billed and/or bulk-billed messages.

(b) For Message Processing Service, the minimum yearly charge is the product of the message capacity per year furnished by the Customer as set forth in (D)(2) and (a) preceding and the appropriate Message Processing Service rate times 0.9. The appropriate Message Processing Service rate is the Message Processing Service rate as set forth in Section 17.4.2 for the specific year period ordered.

For Bill Processing Service, the minimum yearly charge is the product of the message-billed bill capacity and/or bulk-billed capacity per year furnished by the Customer as set forth in (D)(2) and (a) preceding and the appropriate Bill Processing Service message-billed and/or bulk-billed rate times 0.9.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(E) Payment Arrangements and Audit Provision

(3) Minimum Order Capacities and Minimum Yearly Charges (continued)

(b) (continued)

The minimum yearly charge for message-billed messages and bulk-billed messages will be determined separately based on the estimates the Customer furnishes as set forth in (D)(2) and (a) preceding. The appropriate Bill Processing Service message-billed rate is the average of the message-billed rates as set forth in Section 17.4.2(G) for the specific message-billed service year period ordered. The appropriate Bill Processing Service bulk-billed rate is the bulk-billed rate as set forth in Section 17.4.2 following for the specific bulk-billed service year period ordered. For inquiry, the minimum yearly charge for message-billed inquiry and bulk-billed inquiry will be determined separately. For message-billed inquiry, the minimum yearly charge is the product of the message-billed bill capacity for the year furnished by the Customer as set forth in (D)(2) and (a) preceding and the appropriate message-billed inquiry rate times 0.9. For bulk-billed inquiry, the minimum yearly charge is the product of the bulk-billed bill capacity for the year furnished by the Customer as set forth in (D)(2) and (a) preceding and the appropriate bulk-billed inquiry rate times 0.9.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(E) Payment Arrangements and Audit Provision (continued)

(3) Minimum Order Capacities and Minimum Yearly Charges (continued)

(b) (continued)

The appropriate message-billed inquiry rate is the average of the message-billed inquiry rates as set forth in Section 17.4.2 for the year period ordered. The appropriate bulk-billed inquiry rate is the bulk-billed inquiry rate as set forth in Section 17.4.2(G) for the year period ordered.

(c) For Message Processing Service, the minimum yearly charge is the difference of the message capacity per year furnished by the Customer as set forth in (D)(2) and (a) preceding and the year allowance times the appropriate Message Processing Service rate. The year allowance will be determined by the Telephone Company and will be the total Customer messages for all Customers processed by the Telephone Company in the calendar year prior to the year for the minimum yearly charge times 0.05. The appropriate Message Processing Service rate is the Message Processing Service rate as set forth in Section 17.4.2(A) for the specific year period ordered.

For Bill Processing Service, the minimum yearly charge is the difference of the message-billed bill capacity plus the bulk-billed bill capacity for the year furnished by the Customer as set forth in (D) (2) and (a) preceding and the year allowance times the appropriate Bill Processing Service message-billed or bulk-billed rate.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(E) Payment Arrangements and Audit Provision (continued)

(3) Minimum Order Capacities and Minimum Yearly Charges (continued)

(c) (continued)

The minimum yearly charge for message-billed messages and bulk-billed messages will be determined separately based on the estimates the Customer furnishes as set forth in (D)(2) and (a) preceding and a prorate of the allowance. The allowance will be prorated using the ratio of the message-billed bill capacity furnished by the Customer to the bulk-billed bill capacity furnished by the Customer for the year for which the minimum yearly charge is determined. The year allowance will be determined by the Telephone Company and will be the total Customer messages for all Customers billed by the Telephone company in the calendar year prior to the year for the minimum yearly charge times 0.05. The appropriate Bill Processing service message-billed rate is the average of the message-billed rate as set forth in Section 17.4.2(G) for the year period ordered. The appropriate Bill Processing Service bulk-billed rate is the bulk-billed rate as set forth in Section 17.4.2(G) for the year period ordered.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(E) Payment Arrangements and Audit Provision (continued)

(3) Minimum Order Capacities and Minimum Yearly Charges (continued)

(c) (continued)

For inquiry, the minimum yearly charge will be determined for the year by using the message-billed bill capacity or the bulk-billed bill capacity less a prorate of the year allowance times the appropriate inquiry message billed or bulk-billed inquiry rate. The minimum yearly charge for message-billed inquiry and bulk-billed inquiry will be determined separately. The prorate of the allowance will be the same as that set forth in the preceding paragraph.

When the Message Processing Service rates are not shown separately and are included in the Bill Processing Service rates, the Message Processing Service minimum yearly charges will not apply. When the inquiry rates are not shown separately and are included in the Bill Processing Service message-billed processing and bulk-billed processing rates, the inquiry minimum yearly charges will not apply.

(4) Cancellation of a Special Order

A Customer may cancel a Special Order for Message Billing Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the Customer that the Special Order is to be canceled. The verbal notice must be followed by written confirmation within 10 days.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(E) Payment Arrangements and Audit Provision (continued)

(4) Cancellation of a Special Order (continued)

The service date for Message Billing Service is the date the Customer and the Telephone Company mutually agree the service is to start.

When a Customer cancels a Special Order for Message Billing Service after the order date, but prior to the start of service, a charge equal to the Special Order charges, program development costs and any nonrecoverable capital costs incurred by the Telephone Company will apply to the Customer.

(5) Changes to Special Orders

When a Customer requests change to a pending Special Order for Message Billing Service, such changes will be undertaken if they can be accommodated by the Telephone Company. A charge equal to any costs incurred by the Telephone Company because of the change will apply.

(F) Rate Regulations

(1) The message Processing and Bill Processing Service message charges apply during the yearly periods ordered by the Customer. The Telephone Company will not initiate rate changes to the Message Processing Service charges as set forth in Section 17.4.2(A) or the Bill Processing Service charges as set forth in Section 17.4.2(G) that apply to the Customer order during the yearly periods for that specific order.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(F) Rate Regulations

(1) (continued)

For the purpose of determining the charges applicable to bulk-billed service for Bill Processing Service, a bulk-billed message is a Customer message which is used by the Telephone Company to develop the Customer bulk-billed charge.

(2) During any yearly period in which the actual Customer messages processed and/or billed exceeds the message capacity as stated in the following, additional charges apply. For Message Processing Service, for each Customer message processed that exceeds (a) 110 percent of the message capacity ordered for the year or (b) the message capacity ordered plus the year allowance, whichever or (a) or (b) is lower, the appropriate charges for the specific service ordered as set forth in Section 17.4.2(A) and (B) apply. The year allowance is the quantity determined as set forth in (E)(3)(c) preceding.

For Bill Processing Service, for each message-billed Customer message processed that exceeds (a) 110 percent of the message-billed bill capacity ordered or (b) the message-billed bill capacity plus the prorated allowance, whichever of (a) or (b) is lower, the appropriate charges for the specific service ordered as set forth in Section 17.4.2(G) and (H) apply. The prorated allowance is the quantity determined as set forth in (E)(3)(c) preceding.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(F) Rate Regulations (continued)

(2) (continued)

For Bill Processing Service, for each bulk-billed customer message processed that exceeds (a) 110 percent of the bulk-billed bill capacity ordered or (b) the bulk-billed bill capacity plus the prorated allowance, whichever of (a) or (b) is lower, the appropriate charges for the specific service ordered as set forth in Section 17.4.2(G) and (H) apply. The prorated allowance is the prorated quantity determined as set forth in (E)(3)(c) preceding.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(F) Rate Regulations (continued)

(2) (continued)

For each year for message-billed inquiry, the additional charges will apply for the same capacity that additional charges apply for message-billed messages. The appropriate charges for the specific inquiry ordered as set forth in Section 17.4.2(G) and (H) apply.

For each year for bulk-billed inquiry, the additional charges will apply for the same capacity that additional charges apply for bulk-billed messages. The appropriate charges for the specific inquiry ordered as set forth in Section 17.4.2(G) and (H) apply.

For each Customer message processed and/or billed between the message capacity ordered and the allowance (i.e. 110 percent level of order plus allowance level, whichever applies) specified in the preceding paragraphs, the appropriate rate as set forth in Section 17.4.2(A) or Section 17.4.2(G) will apply.

The Customer, at its option, may order additional capacity for inquiry and capacity required to process and/or bill the additional messages at the rates as set forth in Section 17.4.2 subject to the minimum period and minimum yearly charges as set forth in (E)(2) and (E)(3) preceding. When more than one order exists at the same time for a Customer, the rates for inquiry, Customer messages processed and/or billed that exceed the total inquiry, message and/or bill capacity, respectively, for all existing orders will be the appropriate rates for the most recent order, plus the appropriate additional inquiry, Message and/or Bill Processing charge as set forth in Section 17.4.2(B) and (H) for the most recent order.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(F) Rate Regulations (continued)

(3) The Message-Billed Service charge applies each month that one or more messages or related rate elements are billed to an end user. When both interstate and state Customer messages are billed by the Telephone Company to the end user on the same bill for the Customer, the Message Billed Service charge times 0.5 applies each month. When more than one copy of the end user bill is provided to the end user, the Message-Billed Service charge applies for each additional copy of the end user bill provided.

(4) A Bulk-Billed Service Charge applies each month that one or more bulk-billed charges are billed to an end user. When both interstate and state Customer bulk-billed charges are billed by the Telephone Company to the end user on the same bill for the Customer, the Bulk-Billed Service Charge times 0.5 applies each month. When more than one copy of the end user bill is provided to the end user, the Bulk-Billed Service charge applies for each additional copy of the end user bill provided.

(5) When message detail is data-transmitted to or received from an exchange Telephone Company location by the Telephone Company, a charge as set forth in Section 17.4.2(D), on a per record basis will apply.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(F) Rate Regulations (continued)

(5) (continued)

A record is a logical grouping of information as described in the program that processes the information and loads the magnetic tape or data file used to supply the message detail which is data-transmitted. The Telephone Company will determine this charge based on its count of the records transmitted.

(6) When message detail is data-transmitted to or received from a Customer location by the Telephone Company, a charge, as set forth in Section 17.4.2(F) and/or (B), on a per record basis will apply. A record is a logical grouping of information as described in the program that processes the information and loads the magnetic tape or data file used to supply the message detail which is data-transmitted. The Telephone Company will determine this charge based on its count of the records transmitted and/or received.

(7) The Message Billing Service Special Order charge applies for each Special Order for Message Processing Service and/or Bill Processing Service, other than establishment of or changes to end user account data (including credit card data), establishment of or changes to end user account rate elements and changes to end user balances due, accepted by the Telephone Company.

The End User account activity charges apply whenever a Customer Special Order requests end user account data be established or changed, nonrecurring or recurring Customer rate element be added or changed in an end user account and/or an end user balance due be changed.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(F) Rate Regulations (continued)

(7) (continued)

An end user account is a record for message-billed service or a bulk-billed service which has a unique name and address and billing identification number, assigned by the Telephone Company, to which a bill is rendered.

The end user account activity Special Order charge always applies and the end user account establishment and change charge, end user account rate element rate level change charge or the end user account rate element rate structure change charge may apply depending on the activity ordered by the Customer as set forth in (a), (b), (c) and (d) following.

(a) The end user account activity Special Order charge applies whenever the Customer furnishes to the Telephone Company end user account information that establishes or changes the information, rates or balance due associated with an end user account.

(b) The end user account establishment and change charge applies whenever Customer furnished information is used by the Telephone Company to establish or change end user account data or rate elements, or balances due, except for information to change end user account rate element rate levels or rate structure.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(F) Rate Regulations (continued)

(7) (continued)

(b) (continued)

End user account rate element rate level and rate structure change charges are applied as set forth in (c) and (d) following.

In addition, the end user account establishment and change charge does not apply when rated Customer messages are posted to a message-billed account associated with an end user common line. The end user account establishment and change charge does not apply when a Customer credit card is listed on a message-billed account associate with an end user common line and does not apply for any subsequent preparation or distribution of a Customer credit card. The end user account establishment and change charge does apply when the Telephone Company, at the request of a Customer, establishes or changes a message-billed account with a credit card but without an associated end user common line. The end user account establishment and change charge applies for each account established, rate element established, account changed (except for credit card changes), rate element changed and balance due changed.

(c) The end user account rate element rate level change charge applies whenever Customer furnished information is used by the Telephone Company to change an end user account rate element rate level. The charge applies for each end user account rate element rate level changed.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(F) Rate Regulations (continued)

(7) (continued)

(d) The end user account rate element rate structure change charge applies whenever Customer furnished information is used by the Telephone Company to change an end user account rate element rate structure. The charges to make the end user account rate element rate structure changes will be determined on an individual case basis.

(8) When message detail is entered on a data file or magnetic tape to be provided to a Customer, the per tape charge applies for each data file or tape prepared and the per record charge applies for each record processed. A record is a logical grouping of information as described in the programs that process the information and load the magnetic tapes or data file. The Telephone Company will determine the charges based on the number of data files or tapes prepared and on its count of the records processed. The number of records processed will be determined using the number of records input to or the number of records output from the programs that process the information and load the magnetic tapes or data file whichever number of records is higher.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(F) Rate Regulations (continued)

(9) The rates as set forth in Section 17.4.2(G) apply for Bill Processing Service for a Customer message-billed service depending on the total (i.e., sum of interstate and intrastate Customer messages) number of messages billed for an end user account per month. The rate groups are 1 to 10 messages per month, 11 to 100 messages per month, 101 to 600 messages per month and over 600 messages per month. The rate of the largest number of Customer messages billed for the end user account in a month will be used to determine the Bill Processing Service charges for that end user account for the month. The Telephone Company will determine the charges based on its count of Customer messages billed each bill day to an end user account.

(10) When the Telephone company receives an order from the Customer to issue one or more Customer credit card(s) to an end user, Special Order and Credit Card Issuance preparation and distribution charges apply. If the Customer requests another card to be issued for any reason, the preparation and distribution charges apply. If for any reason the Customer requests a change to be made in the credit card information maintained on an end user account by the Telephone Company, including the marking of the account to show issuance of a credit card by the Customer or discontinuance of an existing card, and the Customer does not request the distribution of a credit card, only the preparation charge applies. The Telephone Company will determine the charges based on its record of the Special Orders to prepare and distribute Customer credit cards received from the Customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.1 Message Billing Service (continued)

(F) Rate Regulations (continued)

(11) The basic per hour rate and the premium per hour rate for program development is for the use of one hour of one Telephone Company programmer's time.

(12) The Telephone Company will keep a count of the hours and fraction thereof used by Telephone Company personnel to provide program development and will bill the Customer in accordance with these records. The hours for each service ordered will be summed and then rounded to the nearest hour, except that when the total is less than one hour, one hour will be used to determine the charges.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service

The Telephone Company will provide Private Line Billing Service only for those Customer private line services for which the Telephone Company is providing Special Access Service. The Telephone Company will not render bills for Customer private line services for which it does not provide Special Access Service that are connected at end user premises to Customer private line services for which it does render bills.

The Telephone Company will not render bills for usage-based rate elements under this section of the tariff. Usage-based rate elements will be billed as set forth in Section 17.

(A) General Description

Private Line Billing Service includes editing and rating, account establishment, rendering of bills, receiving payments, maintenance of accounts, treatment of accounts and inquiry (when ordered by the Customer).

Editing and rating is the examination and identification of all the ratable elements of a Customer private line service and the application of the appropriate Customer rates and charges to the service. These functions are performed when private line services for a Customer's end user are established or changed. Rating is always performed, and editing may be performed, coincident with the implementation of a change in the Customer's schedule of rates.

Account establishment is the preparation of a Customer end user record so that a bill can be sent to that end user.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(A) General Description (continued)

Rendering of bills is the preparation and mailing of statements of the amounts due from end users for service received from the Customer. These statements may, at Telephone Company choice, be included as part of the regular monthly bill for local telephone exchange service mailed to the end user.

Receiving payment and maintenance of accounts is the collecting of deposits and monies from end users for services furnished by the Customer and maintenance of records of all transactions.

Treatment of accounts is the forwarding of notices of delinquent or unpaid end user accounts, posting credits and adjustments, and when necessary as determined by the Telephone Company, denial of the Customer's Special Access Service.

Inquiry is the answering of end user questions about charges for Customer services and negotiating of credits and adjustments to end user accounts and review of Customer charges which are removed from an end user's bill.

(B) Undertaking of the Telephone Company

(1) When Private Line Billing Service is ordered by a Customer, the Telephone Company will establish a Private Line Account, edit and rate the billing detail, bill the end user and maintain and treat the Private Line Account (based on the rate and end user data supplied by the Customer) at the rates and charges set forth in Section 17.4.2(B), as set forth in (2) through (14) following.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(1) (continued)

The Telephone Company will not establish a Private Line end user account with any Customer balance due. In addition, the Telephone Company will, in accordance with Telephone company deposit regulations, determine and collect a deposit from the end user for the Customer service. The Telephone Company will, when necessary in accordance with Telephone Company deposit regulations, determine and collect the service deposit when an end user account is established. The Telephone Company will, when necessary in accordance with Telephone Company deposit regulations, maintain a service deposit balance for each end user account. The Telephone Company will provide the Customer a copy of its deposit regulations upon request from the Customer.

The Telephone Company will make adjustments to end user balance due to account for application of credits authorized by Customer furnished statements.

(2) Private Line Billing Service records and end user accounts will be maintained by the Telephone Company in a standard format in order to identify the end user and bill the ratable elements. The Telephone Company will establish this format and provide it to the Customer. The Telephone Company will also establish the format it will use to bill private line services and provide it to the Customer. If, in the course of Telephone Company business, it is necessary to change these formats, the Telephone Company will notify the involved Customers six months prior to the change.

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ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(3) The Telephone Company will develop the Customer's schedule of rates and charges into a rating program. Program development charges, as set forth in Section 17.4.2(C), apply for the hours required to design, develop, test and maintain the necessary programs.

(4) Upon acceptance by the Telephone Company of a Special order for Private Line Billing Service from a Customer, the Telephone Company will determine the period of time to implement such service on an individual case basis.

(5) Changes in the rate levels of Customer services to be billed will normally be implemented within 60 days after receipt of a Special Order from the Customer requesting such changes. Such changes will require modifications of the rating program. Program development charges, set forth in Section 17.4.2(C), apply for the hours required to design, develop, test and maintain the necessary program changes.

(6) Changes in the rate structure of the Customer services to be billed also require a change in the rating programs. When the Telephone Company determines that it can accommodate the changes, the conditions and the period of time required to make such changes will be determined on an individual case basis. Program development charges, as set forth in Section 17.4.2(C), apply for the hours required to design, develop, test and maintain the necessary program changes.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(7) The Telephone Company will not provide any information related to Private Line Billing Service accounts under this section of the tariff. Private Line Billing Service information may be obtained as set forth in 8.4 following.

(8) The Telephone Company will, at the option of the Customer, provide Private Line Billing with or without inquiry. When the Telephone Company provides Private Line Billing with inquiry, the Telephone Company will be responsible for contacts and arrangements with the Customer's end users concerning the billing, collecting, crediting and adjusting of the Customer service charges, except prior Customer balances due from end users, in accordance with written instructions furnished by the Customer. At the request of the Customer, the billed Customer charges which are removed from the end user bill in accordance with the Customer inquiry instructions will be reviewed for unauthorized use of the Customer service by Telephone Company message investigation groups for a period of up to 90 days after the billed Customer charges have been removed from the end user's bill. For any billed Customer charges which are removed from an end user's balance due in accordance with the Customer's instructions, the Telephone Company will make an appropriate adjustment to the Customer's accounts receivable. When the Telephone Company provided Private Line Billing without inquiry, all contacts from Customer end users concerning the Customer's billed amounts will be referred to the Customer and the Telephone Company will only be responsible for contacts with Customer's end users concerning the collection of Customer service charges, except prior Customer balances due from end users. Inquiry will only be provided for those end user accounts for which the Customer has ordered Private Line Billing.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(9) When the Telephone Company encounters bills which are to be rendered to end users or end user billing addresses not located in the Telephone Company's operating territory or in a state where Private Line Billing Service has not been ordered, such bills will be handled as follows:

(a) If the Bill to the end user is for a service for which the Telephone Company provides a Special Access Service to the Customer and the Customer has ordered the appropriate Private Line Billing Service, the Telephone Company will bill the end user.

(b) In all other situations, the bill will be delivered to the Customer and the Customer shall be responsible to furnish an accounts receivable adjustment to the Telephone Company as set forth in Section 8.2.3 following.

(10) The Telephone Company will accept Customer gift certificates for payment from end users if the Customer agrees in writing to redeem all such gift certificates. The format of the gift certificates must be acceptable to Telephone Company.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(11) Where the rates for Customer services have been implemented under an accounting order pending final approval from a regulatory agency, the Telephone Company will, upon written request from the Customer, keep such records as may be required to make any adjustments to the end users as may be ordered by the regulatory agency. the charges for such a service will be determined on an individual case basis.

(12) The Telephone Company will provide Private Line Billing Services under a Special Order. For all Private Line Billing Services other than establishment of or changes to end user account data, establishment of or changes to end user account rate elements and changes to end user balances due, the Private Line Billing Service Special Order charge as set forth in Section 17.4.2(E) will apply to orders accepted by the Telephone Company. The format of this Special Order will be specified by the Telephone Company.

(13) The Telephone Company will arrange with the Customer to accept under a Special Order end user account information to establish and change end user account data, establish and change end user account rate elements and change end user balances due. The methods, procedures and manner in which the end user account data and changes are forwarded to the Telephone Company must be agreeable to the Telephone Company. The charges to handle such Special Orders will be determined on an individual case basis.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(B) Undertaking of the Telephone Company (continued)

(14) If the Customer requests the Private Line bills be reprocessed by the Telephone Company because of an Customer error, the Telephone Company will treat the reprocessing as a rate level or rate structure change. Determination of whether the reprocessing is a rate level change or rate structure change will be made by the Telephone Company based on the Special Order the Telephone Company receives from the Customer. All appropriate charges as set forth in Section 17.4.2 will apply.

(C) Liability of the Telephone Company

Notwithstanding Section 2.1.3 preceding, the Telephone Company liability for Private Line Billing Service is as follows:

(1) If Private Line Billing detail is not available because the Telephone Company lost or damaged records or incurred processing system outages, the Telephone Company will recover the lost detail based on previously received information. This recovered detail will be provided to the Customer if the Customer has ordered the appropriate Billing Information Service as set forth in Section 8.4 following. If the detail cannot be recovered, the extent of the Telephone Company's liability for damages will be the known amount not billed or when the amount not billed is unknown, no more than 3 months' charges for the services not billed.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(C) Liability of the Telephone Company (continued)

(2) When the Telephone Company is notified that, due to its error or omission, incomplete detail has been provided to the Customer when such detail has been ordered as set forth in 8.4 following, the Telephone Company will make a reasonable effort to recover the detail and provide such information to the Customer at no additional charge to the Customer. Such request to recover the detail must be made within 30 days from the date the details were initially made available to the Customer. If the detail cannot be recovered, the extent of the Telephone Company's liability for damages will be the known amount not billed or when the amount not billed is unknown, no more than 3 months charges for the services not billed.

(3) If the Telephone Company finds, or is notified of, an error in billing to an end user, it will make a reasonable effort to correct the error and bill the appropriate end user within the limits permitted by laws of the state in which it provides the service. If the error is caused by the Telephone Company, and the Telephone Company cannot timely bill the proper end user, the extent of the Telephone Company's liability for damages will be the known amount misbilled or when the amount misbilled is unknown, no more than 3 months charges for the services misbilled.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(C) Liability of the Telephone Company (continued)

(4) In the absence of willful misconduct, no liability for damages to the Customer or other person or entity other than that as set forth in (1), (2) and (3) preceding shall attach to the Telephone Company for its action or the conduct of its employees in providing Private Line Billing Service.

(D) Obligations of the Customer

(1) The Customer shall order Private Line Billing Service under a Special Order for each state where service is desired.

When Private Line Billing Service is ordered initially, the Customer shall order the service for at least one year. Thereafter, upon six month written notice, additional service may be ordered for a minimum of one year and the rates and charges as set forth in Section 17.4.2 will apply. Not later than six months prior to the end of an order period, the Customer shall notify the Telephone Company in writing if service is to be discontinued at the end of the period. If no notice is received from the Customer, the Telephone Company will automatically extend the service for an additional year, using the most recent 12 months of bill capacity provided. All appropriate rates and charges as set forth in Section 17.4.2 for another year will apply and the minimum monthly charges will be based on the most recent 12 months of bill capacity provided. The Customer will be notified by the Telephone Company when such an extension is made.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(D) Obligations of the Customer (continued)

(2) When Private Line Billing Service is ordered, the Customer shall furnish the Telephone Company for each state and for each year in the order an estimate of the average number of bills (bill capacity) to be rendered each year.

(3) The Customer shall furnish in the format specified by the Telephone Company all information necessary for the Telephone Company to provide the Private Line Billing Service including an affidavit that states whether the Customer Private Line Service is subject to any Federal taxes and/or State taxes. When Customer bills are to be rendered to locations not in the operating territory of the Telephone Company, the Customer shall furnish an address where the bills are to be sent. If the Customer does not furnish an address, all unaddressable bills will be delivered to the Customer. The information shall be furnished by the Customer in a timely manner.

(4) The Customer shall furnish to the Telephone Company a written schedule of its service rates and charges in sufficient time to allow the Telephone Company to establish a rating program. The interval required to establish a rating program must be mutually agreed to by the Telephone Company and the Customer.

(5) When the Customer orders Private Line Billing Service, it shall authorize the Telephone Company in writing to deny service to end users for nonpayment. If that authorization is not received. Private Line Billing Service will not be provided.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(D) Obligations of the Customer (continued)

(6) The Customer shall be responsible for all contacts and arrangements, including prior Customer balances due from end users, with its end users concerning the provision and maintenance of the Customer's services.

(7) When the Customer orders Private Line Billing Service with inquiry, the Customer shall furnish the Telephone Company written instructions which are agreeable to the Telephone Company, for the handling of end user questions about bills.

When the Customer orders Private Line Billing Service without inquiry, the Customer shall furnish the Telephone Company with written instructions as to where inquiries are to be referred. When the Customer does not order Telephone Company inquiry service and desires credit adjustments be made to the balances due from an end user, the Customer shall furnish a statement for each end user account where the credit is desired. These statements shall show the rate element to be credited, the date the rate element was billed and the amount of the credit.

The Customer shall notify its end users through its tariff or other appropriate means when the Customer handles the bill inquiries. The Customer shall furnish the Telephone Company in writing all bill adjustments as set forth in 8.2.3 following.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(D) Obligations of the Customer (continued)

(8) The Customer will immediately redeem all Customer gift certificates that the Telephone Company receives in payment for end user charges. The Customer agrees to use a gift certificate format which is agreeable to the Telephone Company.

(9) The Customer agrees to permit the Telephone Company to, when necessary in accordance with Telephone Company deposit regulations, determine and collect Customer service deposits from all end users of the Customer's services for which the Telephone Company provides billing for the Customer. The Customer will notify its end users through its tariffs or other means that the Telephone Company will, when necessary in accordance with Telephone Company deposit regulations, determine and collect Customer service deposits. The Customer will also include in its tariff and service arrangements and obtain regulatory concurrence for the Telephone Company deposit regulations that the Telephone Company will use to collect end user service deposits.

(E) Payment Arrangements and Audit Provisions

(1) Audit Provisions

Upon reasonable written notice by the Customer to the Telephone Company, the Customer shall have the right through its authorized representative to examine and audit, during normal business hours and at reasonable intervals as determined by the Telephone Company, all such records and accounts as may under recognized accounting practices contain information bearing upon the amount payable to the Customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(E) Payment Arrangements and Audit Provisions (continued)

(1) Audit Provisions (continued)

Adjustment shall be made by the proper party to compensate for any errors or omissions disclosed by such examination or audit. Neither such right to examine and audit nor the right to receive such adjustment shall be affected by any statement to the contrary, appearing on checks or otherwise, unless such statement expressly waiving such right appears in a letter signed by the authorized representative of the party having such right and delivered to the other party.

All information received or reviewed by the Customer or its authorized representative is to be considered confidential and not to be distributed, provided or disclosed in any form to anyone not involved in the audit, nor is such information to be used for any other purpose.

(2) Minimum Periods

The minimum period for which Private Line Billing Service is provided, and for which charges apply, is one year.

A minimum period of one year applies for each additional period of service ordered.

When service is discontinued prior to the expiration of a minimum period, the minimum monthly charge is applicable for each month and fraction of month remaining in the minimum period.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(E) Payment Arrangements and Audit Provisions (continued)

(3) Minimum Monthly Charges

(a) During the initial year minimum period, there is a minimum monthly charge based on the Customer's estimate of the number of bills to be rendered during that period. The minimum monthly charge is the charge for Bill Rendering, as set forth in Section 17.4.2(B), for 75 percent of the monthly volume. The monthly volume is 1/12 of the bill capacity ordered during the initial year.

If the actual monthly volume during any consecutive three month period exceeds 1/12 of the bill capacity ordered by 50 percent or more per month, a new minimum monthly charge will be established. The new charge is the charge for Bill Rendering, as set forth in Section 17.4.2(B), for the monthly average of the actual volume used during those three months.

(b) During each additional yearly minimum period, the minimum monthly charge is the charge for Bill Rendering, as set forth in Section 17.4.2(B), for the monthly average of the actual volume of bills rendered during the previous 12 months.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(E) Payment Arrangements and Audit Provisions (continued)

(3) Minimum Monthly Charges (continued)

(b) (continued)

If the actual monthly volume during any consecutive three month period exceeds the monthly average by 50 percent or more per month, a new minimum monthly charge will be established. The new charge is the charge of Bill Rendering, as set forth in Section 17.4.2(B), for the monthly average of the actual volume used during those three months.

(4) Cancellation of a Special Order

A Customer may cancel a Special Order for Private Line Billing Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the Customer that the Special Order is to be canceled. The verbal notice must be followed by written confirmation within 10 days. The service date for Private Line Billing Service is the date that the Customer and the Telephone Company mutually agree service is to start.

When a Customer cancels a Special Order for Private Line Billing Service after the order date but prior to the start of service, a charge equal to the Special Order charges, program development costs and any nonrecoverable capital costs incurred by the Telephone Company will apply to the Customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(E) Payment Arrangements and Audit Provisions (continued)

(5) Changes to Special Orders

When a Customer requests changes to a pending Special Order for Private Line Billing Service, such changes will be undertaken if they can be accommodated by the Telephone Company. A charge equal to any costs incurred by the Telephone Company because of the change will apply.

(F) Rate Regulations

(1) The Private Line Billing Service Special Order charge applies for each Special Order for Private Line Billing Service, other than establishment of or changes to end user account data, establishment of or changes to end user account rate elements or changes to end user balances due, accepted by the Telephone Company.

(2) The end user account activity charge applies whenever an end user account is established or changed pursuant to a Special Order from a Customer and/or whenever a nonrecurring or recurring Customer rate element or balance due is added to or changed in the account.

An end user account is a record for a Private Line Billing Service which has a unique name and address and billing number identification, assigned by the Telephone company, to which a bill is rendered.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(F) Rate Regulations (continued)

(2) (continued)

The end user account activity Special Order charge always applies and the end user account establishment and change charge, end user account rate element rate level change charge or the end user account rate element rate structure change charge may apply depending on the activity ordered by the Customer as set forth in (a), (b), (c) and (d) following.

(a) The end user account activity Special Order charge applies whenever the Customer furnishes to the Telephone Company end user account information that establishes or changes the information or rates or balance due associated with an end user account.

(b) The end user account establishment and change charge applies whenever Customer furnished information is used by the Telephone Company to establish or change end user account data or rate elements or balance due, except for information to change end user account rate element rate levels or rate structure. End user account rate element rate level and rate structure changes charges are applied as set forth in (c) and (d) following. The end user account establishment and change charge applies for each account established, rate element established, account changed and rate element changed and balance due changed.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(F) Rate Regulations (continued)

(2) (continued)

(c) The end user account rate element rate level change charge applies whenever Customer furnished information is used by the Telephone Company to change an end user account rate element rate level. The charge applies for each end user account rate element rate level changes.

(d) The end user account rate element rate structure change charge applies whenever Customer furnished information is used by the Telephone Company to change an end user account rate element rate structure. The charges to make the end user account rate element rate structure changes will be determined on an individual case basis.

(3) The bill rendering charge applies each month that one or more charges is billed by the issuing of a statement to an end user account. When both interstate and state private line service charges are billed by the Telephone Company to the end user on the same bill for the Customer, the Bill rendering charge times 0.5 applies each month.

(4) The basic per hour rate and the premium per hour rate for program development is for the use of one hour of the Telephone Company programmer's time.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.2 Private Line Billing Service (continued)

(F) Rate Regulations (continued)

(5) The Telephone Company will keep a count of the hours and fraction thereof used by Telephone Company personnel to provide program development and will bill the Customer in accordance with these records. The hours for each order will be summed and then rounded to the nearest hour, except that when the total is less than an hour, one hour will be used to determine the charges.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.3 Purchase of Accounts Receivable

The Telephone Company will, unless the Telephone Company agrees to act as billing agent for the Customer, purchase from the Customer its accounts receivable that arise from bills rendered by the Telephone Company to that Customer's end users. The purchase of accounts receivable will be limited to amounts due the Customer when the Telephone Company provides Bill Processing Service and/or Private Line Billing Service for that Customer. After a Customer orders Bill Processing Service and/or Private Line Billing Service and the Telephone Company is purchasing the Customer's accounts receivable, the Customer is prohibited from assigning, transferring, selling, exchanging or giving these accounts receivable to any other entity or person.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.3 Purchase of Accounts Receivable (continued)

The Customer will provide a written assurance to the Telephone Company as to such forbearance and any such assignment, transfer, sale, exchange or gift is null and void and will subject the Customer to all liabilities, expenses, costs including attorney fees expended and incurred by the Telephone Company in pursuing exclusive ownership to the accounts receivable.

The Telephone Company's purchase of a Customer's accounts receivable shall be with recourse adjustments as set forth in (B) following to account for amounts due the Customer that the Telephone Company is unable to collect from the end users which use the Customer's services. The amounts due the Customer for the purchase of its accounts receivable will be determined as follows:

(A) Total Current Amount Billed

The Telephone Company for each end user bill day (i.e., the billing date on a bill for an end user of a Customer's service) will determine from its records the total current amount lawfully billed to the Customer's end users for Customer services, including all taxes applicable to such services. A Total Current Amount Billed will be determined for each Customer for each end user bill day.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.3 Purchase of Accounts Receivable (continued)

(B) Recourse Adjustments

For each bill day, the Telephone Company will make recourse adjustments to the Total Current Amount Billed as follows:

(1) End User Adjustments

For each bill day, the Telephone Company will subtract from the Total Current Amount Billed the lawfully billed amounts which the Telephone Company removes from end users balances due in accordance with Customer inquiry instructions. In addition, for each bill day, the Telephone Company will subtract from the Total Current amount Billed, an amount that equals the face value of any Customer gift certificates (or its predecessor company's gift certificates) the Telephone Company has in its possession. The Customer gift certificates the Telephone Company possesses will be returned to the Customer.

(2) Telephone Company and Customer Adjustments

For each bill day, the Telephone Company will subtract from the Total Current Amount Billed amounts for end user bills which the Telephone Company delivers to the Customer and amounts for gross receipts taxes, if any, the Telephone Company is legally obligated to pay in connection with accounts purchased by and amounts billed and collected by the Telephone Company pursuant to 8.2.1 and 8.2.2 preceding. In addition, for each bill day, the Telephone Company may make adjustments to the Total Current Amount Billed to account for amounts on statements received from the Customer for additions or subtractions to an end user balance due for services billed in prior periods.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.3 Purchase of Accounts Receivable (continued)

(B) Recourse Adjustments (continued)

(2) Telephone Company and Customer Adjustments (continued)

Also, each bill day, the Telephone Company may make adjustments to the Total Current Amount Billed to account for additions and subtractions for Customer or Telephone Company prior billing period errors.

(3) Uncollectable Adjustments

For each bill day, the Telephone Company will subtract from the Total Current Amount Billed an amount for uncollectable. Uncollectable are amounts billed by the Telephone Company to end users on Final Customer Bills that are added to the Uncollectable (realized) Accounts for the Telephone Company. The Telephone Company will determine the Customer amount for uncollectable for each bill day by multiplying the Total Current Amount Billed by the Customer uncollectable factor rounded up to the nearest 1/1000th as determined in (a) or (b) following.

(a) To determine the Customer uncollectable factor, except for the initial three months that Bill Processing Services and/or Private Line Billing Service is provided to the Customer, the Telephone company will determine from its records the dollar amount lawfully billed on final Customer Bills which, after standard collection efforts are completed, is added to its uncollectable (realized) accounts (uncollectable amount) for bills rendered to end users in the most recent three-month period.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.3 Purchase of Accounts Receivable (continued)

(B) Recourse Adjustments (continued)

(3) Uncollectable Adjustments (continued)

(a) (continued)

This uncollectable amount will include adjustments to account for any payments received by the Telephone Company for outstanding Final Customer Bill amounts that pre-date the most recent three-month period and any deposits held by the Telephone Company for services provided to the end user where Final Customer Bills have been rendered. The uncollectable amount (including where necessary the Customer's or its predecessor company's history of uncollectable to develop a full recent three-month period) will be used by the Telephone Company in an uncollectable apportionment study to determine the realized uncollectable amount for each Customer which is provided Bill Processing Service and/or Private Line Billing Service by the Telephone Company for the most recent three-month period. This realized uncollectable amount for a Customer will, after the adjustment to account for Customer amounts for uncollectable for the previous three-month period which were greater or lessor than the realized uncollectable amount for the same three-month period, be divided by the Total Current Amount Billed for the Customer for the same most recent three-month period to develop a Customer uncollectable factor. This factor will be used by the Telephone Company for the next three-months to determine the Customer amount for uncollectable.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.3 Purchase of Accounts Receivable (continued)

(B) Recourse Adjustments (continued)

(3) Uncollectable Adjustments (continued)

(a) (continued)

Just prior to the end of the three month period, the Telephone Company will determine a new Customer uncollectable factor in the same manner as above for the ensuring three-month period.

(b) When a Customer orders Bill Processing Service and/or Private Line Bill Service, the Customer at the time such services are ordered shall provide to the Telephone Company a history of its or its predecessor company's uncollectable. This history of uncollectable shall indicate by month its total amounts billed and its uncollectable amounts. The Telephone Company will use these data to develop the Customer uncollectable factor for the first three months. To the extent that such Customer or its predecessor company data do not exist, then the Customer uncollectable factor for the first three-month period will be determined on an individual case basis. The Customer uncollectable factor developed either from Customer history or on an individual case basis will be used to determine the Customer amount for uncollectable for the first three-month period.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.3 Purchase of Accounts Receivable (continued)

(C) Payments of Net Purchase Amount to the Customer

(1) The Telephone Company will purchase accounts receivable from the Customer on each end user bill day for an amount (purchase amount) which equals the Total Current Amount Billed as set forth in (A) preceding after known adjustments as set forth in (B) preceding have been made. On the date (payment date) determined by adding 31 days to the end user bill day or on the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval, except as provided herein, the Telephone Company will remit payment to the Customer for the purchase amount less additional adjustments as set forth in (B)(1) and (B)(2) preceding (net purchase amount) received by the Telephone Company prior to the payment date. Payment will be made in immediately available funds. If such payment date would cause payment to be due on a Saturday, Sunday or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the Second Tuesday in November and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment for the net purchase amount will be due to the Customer as follows:

If such payment date falls on a Sunday or on a Holiday which is observed on a Monday, the payment date shall be the first non-Holiday day following such Sunday or Holiday. If such payment date falls on a Saturday or on a Holiday which is observed on Tuesday, Wednesday, Thursday or Friday, the payment date shall be the last non-Holiday day preceding such Saturday or Holiday.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.3 Purchase of Accounts Receivable (continued)

(C) Payments of Net Purchase Amount to the Customer (continued)

(2) Further, if any portion of the net purchase amount is not received by the Customer by the payment date as set forth in (1) preceding, or if any portion of the net purchase amount is received by the Customer in funds which are not immediately available to the Customer, then a late payment penalty shall be due the Customer. The late payment penalty shall be the portion of the net purchase amount not received by the payment date times a late factor. The late factor shall be the lesser of:

(a) the highest interest rate (in decimal value) which may be levied by law for commercial transactions in the state in which the Telephone Company provides Bill Processing Service and/or Private Line Billing Service to the Customer, compounded daily for the number of days from the payment date to and including the date that the Telephone Company actually makes the payment to the Customer, or

(b) 0.000590 per day, compounded daily for the number of days from the payment date to and including the date that the Telephone Company actually makes the payment to the Customer.

Any late payment penalty will be included with the next Telephone Company payment to the Customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.3 Purchase of Accounts Receivable (continued)

(C) Payments of Net Purchase Amount to the Customer (continued)

(3) Also, If any adjustment that reduces an end user balance due is received by the Telephone Company from the Customer after the date the Telephone Company billed the charges to be adjusted to the end user plus 45 days (billed plus date), then a late payment penalty shall be the adjustment amount times a late factor. The late factor shall be the lesser of:

(a) the highest interest rate (in decimal value) which may be levied by law for commercial transactions in the state in which the Telephone company provides Bill Processing Service and/or Private Line Billing Service to the Customer, compound daily for the number of days from the billed plus date to and including the date that the Telephone Company posts the end user account, or

(b) 0.000590 per day, compounded daily for the number of days from the billed plus date to and including the date that the Telephone Company posts the end user account.

Any late payment penalty will be included with the adjustment made by the Telephone Company to the Customer's Total Current Amount Billed.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.3 Purchase of Accounts Receivable (continued)

(D) Netting of Customer Access Service Charges and Net Purchase Amounts

When a payment for Customer Access Service Charges under this tariff is due to the Telephone Company from the Customer on the same payment date that is net purchase amount is due to the Customer from the Telephone Company, the Telephone Company may, with at least a 31 day notice to the Customer, net the payment for Customer Access Service Charges with the net purchase amount. The Telephone Company will pay the net amount to the Customer on the payment date when such net amount is due the Customer or require the Customer to pay the Telephone Company the net amount when such net amount is due the Telephone Company. If either party does not make the payment on the payment date, a late payment penalty as set forth in (C) preceding or 2.4.1 (B)(3) preceding, whichever is appropriate, applies.

Upon request from the Customer, the Telephone Company will provide a copy of its methods and procedures used to determine the amounts named in this section (i.e., 8.2.3 Purchase of Accounts Receivable) to the authorized representative of the Customer who is responsible for auditing these amounts.

8.2.4 Billing Arrangements when the Telephone Company Acts as Billing Agent for the Customer

When the Telephone Company agrees to act as billing agent for the Customer, the billing service, payment arrangements and ownership of the accounts receivable will be as follows:

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.2 Billing Service (continued)

8.2.4 Billing Arrangements when the Telephone Company Acts as Billing Agent for the Customer (continued)

(A) The billing services, including the collection from end users of monies for the Customer accounts receivable that arise from bills rendered by the Telephone Company to that Customer's end users, provided by the Telephone Company will be as set forth in 8.2.1 and 8.2.2 preceding.

(B) For the Customer accounts receivable that arise from bills rendered by the Telephone Company to that Customer's end users, the Total Current Amount Billed and the Recourse Adjustments will be determined as set forth in 8.2.3 preceding. The payment of the net monies due the Customer will be handled as set forth in 8.2.3 (C) preceding.

(C) The ownership of the Customer accounts receivable will not be transferred by the Customer to the Telephone Company. When the Customer discontinues Billing Service provided under this tariff where the Telephone Company is acting as billing agent for the Customer, the Telephone Company will determine and make a final payment to the Customer as set forth in (B) preceding. This final payment due the Customer for the bills rendered to the Customer's end users by the Telephone Company. When the Telephone Company discontinues billing the Customer's end users for Customer Services, any deposits for Customer services will be returned to the appropriate end user in accordance with Telephone Company final billing procedures.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service

At the request of a Customer which is a common carrier, the Telephone Company upon reasonable notice and with reasonable effort will provide Billing Analysis Service for detection, investigation and deterrence of billing evasion activities.

The term "billing evasion activities" used herein denotes Message Billing Abuse and/or Network Abuse. Such abuse is the use of an access line (e.g., end user line or trunk, pay telephone line or other access line or trunk provided by the Telephone Company) where there is intent to circumvent or evade the proper charges in whole or in part for use of telecommunications services over the access line, or to conceal the points of origin or termination of telecommunications services.

Such activities include bypass or circumvention of Telephone Company billing equipment, unauthorized use of Telephone Company and Customer service offerings, and unauthorized use of Telephone Company facilities.

8.3.1 General Description

Billing Analysis Service is the provision of detection, investigation and deterrence of billing evasion activities.

Detection is the provision of equipment by the Telephone Company to identify and collect information on Network Abuse. Such equipment may be located in Telephone Company premises or offices or may be attached to access lines.

Deterrence is the contacting and interviewing of parties identified in billing evasion activities, the recovery of devices or materials used in billing evasion activities (where legally permitted), the service review for possible suspension of service over access lines identified in billing evasion activities and publicity assistance in publicizing billing evasion deterrence.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.1 General Description (continued)

Investigation is the provision of investigative services to collect evidence to document that billing evasion activities are occurring, prepare reports, preserve evidence and supply expert witness analysis and testimony. Investigation also includes provision of services to coordinate the investigative activities between Exchange Telephone Companies and/or law enforcement agencies.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.2 Undertaking of the Telephone Company

(A) When Billing Analysis Service is ordered under a Special Order by an authorized security representative of the Customer, the Telephone Company will provide any one or all of the services as set forth in (B) through (D) following at rates and charges as set forth in Section 17.4.2.

(B) Detection service will be provided for Network Abuse at any central office switch equipped to recognize and record irregular key pulse and multifrequency signals upon receipt of a special order from a Customer specifying the central office(s) where detection service is requested. Subject to the agreement of the Telephone Company, special construction for the provision of central office equipment to recognize and record irregular key pulse and multifrequency signals may be undertaken at the request of the authorized security representative of the Customer to meet the needs of the Customer. Such special construction will be provided as set forth in Section 16, following.

(1) Reports of detection service results will be provided on an office-by-office or line-by-line basis at the request of the authorized Security representative of the Customer. On an office-by-office basis, a detection service report of any signal irregularities will be provided for the previous 60 days for all trunks equipped in the office (i.e. ESS control group). Alternatively, for an office requested by the Customer, a line-by-line continuous scan for current signal irregularities will be provided. When the continuous line-by-line scan is provided, a weekly report of signal irregularities for the office involved will be furnished.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.2 Undertaking of the Telephone Company (continued)

(B) (continued)

(2) The detection service reports as set forth in (1) preceding will include, for a signaling irregularity observed, the following: (a) the calling NPA and telephone number (i.e., NXX-XXXX), (b) the called number (i.e., NPA and telephone number recorded by Telephone Company billing equipment) if available (c) signaling irregularity date, (d) the holding time of the call, if available, and (e) the date of the call, if available. The report will be provided as paper printout or microfiche at the discretion of the Telephone Company and set to the authorized security representative of the Customer by registered first class U.S. Mail service. However, an authorized security representative of the Customer may pick up the report at a location designated by the Telephone Company. The 60-day report will be available for mailing or pickup two weeks after the end of the 60-day period. Results of the continuous scan will be provided to the authorized security representative of the Customer by a written report and/or a telephonic report within six working days after the end of a weekly scan.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.2 Undertaking of the Telephone Company (continued)

(C) Investigative Service will be provided by authorized Telephone Company security personnel upon receipt of a Special Order from an authorized security representative of the Customer specifying the line or lines or billing evasion activity (i.e., Message Billing Abuse and/or Network Abuse) to be investigated. The services provided include the provision of an identification report, collection of evidence, provision of a detection and documentation scan, preparation of an affidavit and prosecutive summary, preservation of evidence collected, assistance to law enforcement agencies, provision of expert witness analysis and/or testimony, the coordination of billing evasion investigative services and the review of an Customer's billing evasion control programs.

(1) Provision of an identification report is the collection by Telephone Company personnel of billing information, party name, party address, service configuration, if any, and the preparation and submission of information pertinent to the Customer's service in a report to the authorized security representative of the Customer for each line or billing evasion activity specified by the Customer.

(2) Collection of evidence is the gathering of information pertinent to the line, message, or party associated with the billing evasion activity specified by the authorized security representative of the Customer. Collection of evidence includes a written notification to the authorized security representative of the Customer of the results of such gathering efforts. The Telephone Company will determine the information provided in the written notification.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.2 Undertaking of the Telephone Company (continued)

(C) (continued)

(3) Subject to the agreement of the Telephone Company, a detection and documentation scan on an individual line will be provided when an authorized security representative of the Customer provides a written request for such a scan. Provision of a detection and documentation scan on an individual line is the continuous scan of a line for irregular signals and when an irregular signal is recognized, the collection by Telephone Company equipment of information to show an irregular signal and use of the line occurred. Any information collected during the continuous scan of a line will be considered the property of the Telephone Company. The Telephone Company will notify the Customer of the results of the scan and will permit authorized security representatives of the Customer to review the results. The scan and any associated information will not be provided to any person or entity until the Telephone Company is requested to do so by subpoena or lawful demand. Any out of pocket payments for travel and/or other expenses of Telephone Company personnel will be billed to the Customer.

(4) Preparation of an affidavit and prosecutive summary is the written documentation of the evidence collected by the Telephone Company personnel who performed such activities.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.2 Undertaking of the Telephone Company (continued)

(C) (continued)

(5) Preservation of evidence is the placement of the collected evidence in a secure location under the control of Telephone Company security personnel for a period of up to two years. Such preservation of evidence will be continued beyond two years by the Telephone Company when requested by appropriate law enforcement agencies or the authorized security representative of the Customer. The charges for preservation of evidence as set forth in Section 17.4.4(B) will apply.

(6) Assistance to law enforcement is the accompanying of duly authorized law enforcement personnel to a location where billing evasion activities have been determined to exist in order to identify billing evasion activity devices or materials. The Telephone Company personnel will provide such assistance to law enforcement personnel only after law enforcement involvement has been arranged by the Customer, or under services as set forth in (10) following. If such assistance is required at locations outside the operating territory of the Telephone Company involved, any out of pocket payments for travel and/or other expenses of Telephone company personnel will be billed to the Customer, except to the extent that such expenses are paid by the judicial system.

(7) Provision of expert witness analysis is the review, study and other technical support activities provided by Telephone Company experts to analyze and/or document whether devices and materials associated with an investigation furnished by the authorized security representative of the Customer or under services as set forth in (10) following operate, perform or contain billing evasion activities. A written analysis report will be provided to the authorized security representative of the Customer. The expert will be selected by the Telephone Company.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.2 Undertaking of the Telephone Company (continued)

(C) (continued)

(8) Provision of expert witness testimony is the preparation of testimony and the submission of such testimony in association with an investigation. A copy of the written testimony, if any, will be provided to the authorized security representative of the Customer. The expert witness will be selected by the Telephone Company. Any out of pocket payments for travel and/or other expenses of Telephone Company personnel will be billed to the Customer.

(9) Coordination of billing evasion investigative activities of participating law enforcement agencies is the provision of billing evasion information to the law enforcement agencies, the collection of billing evasion information from the law enforcement agencies and the tracking, collecting and reporting of the results of such participation to the authorized security representative of the Customer. This coordination will be provided only upon receipt or written authorization from the authorized security representative of the Customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.2 Undertaking of the Telephone Company (continued)

(C) (continued)

(10) Coordination of billing evasion investigative activities of participating law enforcement agencies is the provision of billing evasion information to the law enforcement agencies, the collection of billing evasion information from the law enforcement agencies and the tracking, collecting and reporting of the results of such participation to the authorized security representative of Customer. This coordination will be provided only upon receipt of written authorization from the authorized security representative of the Customer.

(11) Review of Customer billing evasion deterrence control programs and related activities is advice to and/or training of Customer personnel on billing evasion deterrence and preventive controls and the development of billing evasion deterrence and preventive control programs for the Customer.

The Telephone Company will, at the request of the Customer, provide investigation service on a premium time basis. When investigation service is provided on such a basis, premium time charges as set forth in 17.4 following apply.

(D) Deterrence services will be provided at any location in the operating territory of the Telephone company that Telephone Company security personnel can safely and legally enter. Deterrence services will be provided, at request of the authorized security representative of the Customer, by written or telephonic notice. A telephone notice received for the authorized security of representative of the Customer, must be followed by written confirmation within one day. Deterrence services will be provided only after an investigation service has been provided by the Telephone Company and billing evasion activities, the recovery of devices and/or materials associated with the billing evasion activities, service review for possible suspension of Telephone Company service, and publicity assistance for publicizing billing evasion activity deterrence.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.2 Undertaking of the Telephone Company (continued)

(D) (continued)

(1) Contracting and interviewing of parties is the written or verbal notification to, or a face-to-face discussion with, a party or parties by Telephone Company security personnel in order to deter further billing evasion activities. Contacting and interviewing is provided at locations identified by law enforcement agencies, the Customer or the Telephone Company.

(2) Recovery of devices or materials is the attempt by Telephone Company security personnel to recover devices or materials which are used in association with Telephone Company facilities in billing evasion activities. Such recovery is provided at locations identified by the Telephone Company, law enforcement agencies or the Customer.

(3) Service review for possible suspension of Telephone Company service is the request for authority to suspend service from appropriate Telephone Company officers, notification to the end user that service will be suspended and, after review of the end user response, or lack thereof, suspension of service, if warranted, in the Telephone Company's judgment.

(4) Publicity assistance for publicizing billing evasion activity deterrence is the provision of information and personnel to aid in publicizing billing evasion activity deterrence. The Telephone Company will determine what information it will provide, if any, and will select the personnel and media, if any, to provide this service.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.3 Liability of the Telephone Company

Notwithstanding Section 2.1.3 preceding, in the absence of willful misconnect, no liability for damages to the Customer or other person or entity shall attach to the Telephone Company for its action or the conduct of its employees in providing billing Analysis Service.

8.3.4 Obligations of the Customer

(A) The authorized security representative of the Customer shall order all billing analysis service under a Special Order. The authorized security representative of the Customer shall order those Billing Analysis services it wishes to receive.

(B) With each other, the Customer shall designate and identify its authorized Security representative who will be responsible to protect the information and to whom the Billing Analysis Service information will be provided. The Customer shall assure and take ever effort to make sure the Billing Analysis Service information is provided to and used only by authorized personnel involved in billing evasion activity matters.

(C) When Billing Analysis Service investigation is ordered, the authorized Security representative of the Customer shall furnish all known details of the billing evasion activities, including the access lines, parties or messages to be investigated, and shall furnish all necessary end user information it possesses to the Telephone Company security personnel. The specification of the access line, party or message to be investigated shall be in writing by the authorized security representative of the Customer.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.4 Obligations of the Customer (continued)

(D) When law enforcement agencies are to be brought into the investigation, the authorized Security representative of the Customer shall secure their participation or authorize the Telephone Company in writing to obtain and coordinate such law enforcement agency participation.

(E) When evidence collected by the Telephone Company is to be produced in connection with a judicial proceeding, the Customer shall notify the Telephone Company of such a requirement in a timely manner.

(F) When the Customer requests that service be suspended for unauthorized use, the Customer shall furnish a written request authorized by an officer of the Customer. The request shall state the reason for the request and tariff, contract or legal provision permitting such suspension and shall correctly identify the end user, telephone number and the location of the end user service to be suspended.

(G) All inquiries from the Customer's end users concerning services provided under this tariff are to be handled by the Customer. Any questions to the Telephone Company shall be made by the authorized Security representative of the Customer.

(H) Except as set forth in 8.3.2 (D)(4) preceding, publicizing of actions resulting from services provided under this tariff shall be the responsibility of the Customer. The Customer shall not publicize that the Telephone Company assisted the Customer unless the Customer has written permission to do so from the Telephone Company.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.4 Obligations of the Customer (continued)

(I) When the authorized security representative of the Customer orders detection service or a detection and documentation scan of an individual line, it shall specify in writing the offices, lines or parties to be included in the scanning and reports the Telephone Company will provide.

(J) When provision of expert witness analysis is ordered by the Customer, the Customer shall be responsible for furnishing the evidence to be analyzed unless the services as set forth in 8.3.2(C)(10) preceding are ordered by the Customer.

(K) When provision of expert witness testimony is ordered by the Customer, the Customer shall include the name, if any, of the Telephone Company expert it desires and when and where the testimony is needed.

8.3.5 Payment Arrangements

(A) Minimum Periods

The minimum period for which billing analysis detection service continuous scanning is provided and for which charges apply is one week.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.5 Payment Arrangements (continued)

(B) Cancellation of a Special Order

A customer may cancel a special order for Billing Analysis Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the authorized security representative of the Customer that the Special Order is to be canceled. The verbal notice must be followed by written confirmation within 10 days. The service date for Billing Analysis Service is the date the Telephone Company security Organization receives the special order.

When a Customer cancels a special order for billing analysis service after the order date but prior to the start of service, a charge as listed following shall apply.

(1) For detection service, the per report charge for each 60-day report ordered and the per week charge for each office where a continuous scan is ordered.

(2) For investigative service, two times the appropriate hourly charge for the service ordered and the per occurrence charge for each documentation scan ordered.

(3) For deterrence service, two times the contact and interview of parties hourly charge for the service ordered.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.5 Payment Arrangements (continued)

(C) Changes to Special Orders

Customer requested changes to a pending special order for Billing Analysis Service will be undertaken if they can be accommodated by the Telephone Company. However, all changes to pending special orders for detection service will be considered as a discontinuance of the pending order and the placement to a new order and appropriate charges will apply. Any additional time required on the part of the Telephone Company personnel will be billed to the Customer at the appropriate hourly charges.

8.3.6 Rate Regulations

(A) The charge per report for the 60 day report, as set forth in 17.4 following, applies for each report provided to a Customer even though no signaling irregularities are found.

(B) The charge per office per week for continuous scan as set forth in 17.4 following applies for each week of service even though no signaling irregularities are found.

(C) The per hour rate for investigative service and/or deterrence service is for the use of one hour of one Telephone Company Security person's time.

(D) The Telephone company will keep a count of the hours and fraction thereof used by Telephone Company personnel to provide the service the Customer ordered and will bill the Customer in accordance with these records. The hours for each service ordered will be summed and then rounded to the nearest hour, except that when the total is less than one hour, one hour will be used to determine the charges.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.3 Billing Analysis Service (continued)

8.3.6 Rate Regulations (continued)

(E) Premium time is all hours for work performed outside the Telephone Company's normal work schedule and/or which requires additions to the work force.

(F) The Provision of billing analysis service per special order charge applies for each special order accepted by the Telephone Company for any billing analysis service.

8.4 Billing Information Service

At the request of the Customer, the Telephone Company will provide information to the Customer from its end user records, billing files and account data base.

8.4.1 General Description

Billing information service is the provision of information to the Customer from Telephone Company record systems labeled as Customer Records Information System (CRIS), Non-Sent-Paid Indicator Data Base (DBAs) and Customer Name and Address Bureau (CNA). Such billing information service will be limited to the provision of information to an Customer relating exclusively to end user services provided by that Customer. Information relating to services provided by any other entity will not be provided.

Information is defined as any entry in the records, data base or bureau listings which is not listed as proprietary to the Telephone Company. Any entry listed as proprietary to the Telephone Company will not be provided.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Analysis Service (continued)

8.4.2 Undertaking of the Telephone Company

(A) When billing information service is ordered by the Customer, the Telephone Company will provide information on a request by request basis as follows in (B) through (M) following at the rates and charges as set forth in Section 17.4.5.

(B) Upon request from a Customer and when the Customer has ordered message billing service bill processing service, the Telephone Company will provide information from its CRIS records as follows:

(1) message detail for a message end user

(2) account detail for a message end user

(3) service and equipment detail for a message end user

Message detail is message-billed records in Exchange Message Record (EMR) format in the CRIS file.

Account detail is data that furnishes the end user name, billing address and billing parameters other than message detail and/or service and equipment detail.

Service and equipment detail is data associated with the Customer's rate elements.

A message end user is an account with Customer message or bulk-billed detail (for a bill period) or an account which is marked, as set forth in (F) following, or established as an end user of the Customer's message or bulk-billed services.

Message detail, account detail and/or service and equipment detail which is confidential due to legal, national security, end user or other appropriate requirements will not be provided. If the Customer requires this information in order to bill its services, it shall secure written permission from the end user to obtain the information from the Telephone Company. The Customer shall furnish the Telephone Company the end user's written permission for the information to be released.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.2 Undertaking of the Telephone Company (continued)

(C) Upon request from a Customer and when the Customer has ordered private line billing service, the Telephone Company will provide information from its CRIS records as follows:

(1) account detail for a private line end user

(2) service and equipment detail for a private line end user.

Account detail is data that furnishes the end user name, billing address and billing parameters other than message detail and/or service and equipment detail.

Service and equipment detail is data associated with the Customer's rate elements.

A private line end user is an account with rate element detail (for a bill period) or an account which is established, at Customer request, as an end user of the Customer's private line (nonmessage) services.

Account detail and/or service and equipment detail which is confidential due to legal, national security, end user or other appropriate requirements will not be provided. If the Customer requires this information in order to bill its services, it shall secure written permission from the end user to obtain the information from the Telephone Company. The Customer shall furnish the Telephone Company the end user's written permission for the information to be released.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.2 Undertaking of the Telephone Company (continued)

(D) Upon request from an authorized supervisor of the Customer for end user information when automatic number identification (ANI) services is provided to the Customer by the Telephone Company or when the Customer offers a telecommunications service for which the billing is based on authorized calling or called parties, the Telephone Company will provide information from its DBAS records. Only current information which resides in the data base will be provided.

(E) Where Telephone Company facilities are available and subject to the agreement of the Telephone Company, CRIS and/or DBAS information may be provided on an interrogation basis at the request of the Customer.

The interrogation basis will permit the Customer to access a data file which contains the data base information from a data processing terminal at the Customer location, furnish an end user telephone number and, after verification that the information is authorized for the Customer's use, receive the end user information. The interrogation file will be provided during normal Telephone company business hours. The DBAS interrogation file will be updated each business day to reflect current end user information. The CRIS interrogation file will be updated each bill day (day bills are prepared and dated for an end user for a customer's service) and will be updated daily when information is available and when the Telephone Company updates the file on a daily basis to reflect current end user information.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.2 Undertaking of the Telephone Company (continued)

(E) (continued)

The Telephone Company will develop the Customer's CRIS and DBAS information order into a retrieval and interrogation program. Program development charges, as set forth in Section 17.4.5 following, apply for the hours required to design, develop, test and maintain the necessary programs.

(F) CRIS and/or DBAS information will be provided on a total file and/or file update basis as follows:

(1) The total file basis will permit the Customer to receive, at the Customer's option, all the end user information that is authorized for the Customer's use on paper printout, magnetic tape or fiche. The total file output will contain end user information for the current billing period. The billing period will be set by the Telephone Company. The magnetic tapes will be provided without the return of previously supplied tapes. The Telephone Company will supply the magnetic tapes. After the information system ordered by the Customer is in service, the paper printout, magnetic tape or fiche will be available from the Telephone Company within 10 working days of the Customer request.

Program development charges as set forth in Section 17.4.5(D), apply for the hours required to design, develop, test and maintain the necessary programs that are used to provide the paper output, magnetic tape or fiche.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.2 Undertaking of the Telephone Company (continued)

(F) (continued)

(1) (continued)

Once available, the paper printout magnetic tape or fiche will be sent to the Customer via first class U.S. Mail service. At the option of the Customer, the Customer may pick up the paper printout, magnetic tape or fiche at a location designated by the Telephone Company or request the information be data-transmitted to the Customer. When the information is data-transmitted to the Customer, the data transmission charges will be determined on an individual case basis.

(2) The file update basis will permit the Customer to receive, at the Customer option, all the end user information that is authorized for the Customer's use on paper printout, fiche or magnetic tape. The file update output will contain end user information for the current billing period only. The current billing period is the period associated with the most recent bill rendered to an end user. The magnetic tapes will be provided without the return of previously supplied tapes.

The Telephone Company will supply magnetic tapes. The file updates will include those records added and those records deleted, if any (deleted records may not be retained by all the Telephone Company). For CRIS information, the file updates will be provided on a monthly interval. For DBAS information, the file updates will be provided for each business day.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.2 Undertaking of the Telephone Company (continued)

(F) (continued)

(2) (continued)

Program development charges as set forth in Section 17.4.5(D), apply for the hours required to design, develop, test and maintain the necessary programs that are used to provide the paper output, fiche or magnetic tape.

Once available, the file update paper printout, fiche or magnetic tape will be sent to the Customer via first class U.S. Mail service. At the option of the Customer, the Customer may pick up the paper output, fiche or magnetic tape at a location designated by the Telephone Company or request the information be data-transmitted to the Customer. When the information is data-transmitted to the Customer, the data transmission charges will be determined on an individual case basis.

(3) The total file output and the file update output will, at the option of the Customer, be provided on a quick turnaround basis. Such quick turnaround output will be provided one working day after the information that the Customer ordered is available. Once available, the output will be provided on paper printout, fiche, or magnetic tape and will be sent to the Customer via first class U.S. Mail service. At the option of the Customer, the Customer may pick up the paper output, fiche or magnetic tape at a location designated by the Telephone Company or request the information be data-transmitted to the Customer. When the information is data-transmitted to the Customer, the data transmission charges will be determined on an individual case basis.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.2 Undertaking of the Telephone Company (continued)

(G) The Telephone Company will, at the request of the Customer, mark any message-billed message end user account, other than end user accounts with Customer credit cards or rate elements, as a user of the Customer's message services. After marking is ordered, the end user account will be marked as an Customer end user account at the time the first message is posted to the end user account. If not marked at the request of the Customer, such an end user account will not be identified as a Customer account unless there are Customer message details associated with the account for the bill period for which message detail is ordered by the Customer. The mark will be removed at the request of the Customer. Charges to mark the account and maintain the mark in future months as set forth in 17.4 following apply. Customer bulk-billed end user accounts and message end user accounts with Customer credit cards or Customer rate elements are counted as Customer accounts.

(H) Upon acceptance by the Telephone Company of a special order for billing information service from a Customer, the Telephone Company will determine the period of time to implement such service on an individual order basis.

(I) The Telephone Company will provide the format for interrogation of its data files and the format of any printed, magnetic tape or fiche output from its CRIS and DBAS files.

(J) Upon request for an authorized supervisor of the Customer who furnishes the account code assigned by the Telephone Company, the Telephone Company will provide name and town information from its CNA bureau. The CNA name and town data, but not street address, will be provided only when the Customer needs the information to authorize a call, to bill a call, or to handle an emergency situation.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.2 Undertaking of the Telephone Company (continued)

(J) (continued)

The information will be provided on a request by request basis by voice telecommunications. Name, town and state will be provided for a telephone number. A request includes the handling of one call and providing the data for one telephone number.

The Telephone Company will specify the location where requests are to be received and the format in which the request is to be made.

If the name and address associated with the telephone number is restricted due to the request of the end user, legal authority or law enforcement agency, no name or town location will be provided.

At the request of the Customer, written confirmation of the name and town location will be sent to the authorized supervisor making the request by first class U.S. Mail service.

(K) If the Customer requests the information ordered by the Customer be resupplied by the Telephone Company because of incorrect Customer specifications or errors, the Telephone Company will resupply the information in accordance with a new Customer order and all appropriate charges as set forth in Section 17.4.5 following will apply.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.2 Undertaking of the Telephone Company (continued)

(L) Where facilities are available and subject to the agreement of the Telephone Company, updating of Customer data bases or files from Telephone Company data processing terminals or equipment in Telephone Company locations may be undertaken at the request of the Customer. The charges for such a service will be determined on an individual case basis.

(M) The Telephone Company will provide billing information service under a special order. For all billing information services, the billing information service special order charge as set forth in Section 17.4.5 applies.

8.4.3 Liability of the Telephone Company

Notwithstanding 2.1.3 preceding, in the absence of willful misconduct, no liability for damages to the Customer or other person or entity shall attach to the Telephone Company for its action or the conduct of its employees in providing billing information service.

8.4.4 Obligations of the Customer

(A) The Customer shall order billing information service under a special order. The Customer shall order those billing information services for the states where it wishes to receive the services and shall specify how often it wishes the service to be provided.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.4 Obligations of the Customer (continued)

(B) With each order, the Customer shall identify the authorized individual and address to receive the billing information service output. When interrogation is ordered, the Customer shall identify the data processing terminals authorized to receive the information and the authorized individual who will be responsible for all terminal activities. When CNA service is ordered, the Customer will identify in writing and include the account codes assigned by the Telephone Company of all authorized individuals who will contact the CNA bureau.

(C) The Customer shall take every effort to make sure that billing information service output and interrogation capability is provided only to authorized personnel. The Customer shall agree, in writing to the Telephone Company, that the Customer will not provide the billing information service outputs to third parties for any use by such third parties except for work for the Customer and which is under complete control of the Customer.

(D) The Customer shall furnish, to the Telephone Company, when interrogation service is ordered all information necessary to allow the Telephone Company to establish an interrogation program. In addition, the Customer shall furnish the Telephone Company, for each data base and file where the interrogation is ordered, an estimate of the number of requests per business day that the Telephone Company data bases and file will be asked to handle. The Customer's terminals used to interrogate the Telephone Company data bases and files must be capable of working with Telephone Company equipment and software.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.4 Obligations of the Customer (continued)

(E) The Customer shall be responsible for all contacts and inquiries from its end users concerning billing information service.

(F) The Customer shall not publicize or represent to others that the Telephone Company jointly participates with the Customer in the development of the Customer's end user records, accounts, data bases or market data, records, files and data bases or other systems it assembles through the use of Billing Information Service.

(G) When the Customer orders marking of non-Customer credit card message-billed message end user accounts, all accounts containing that Customer's messages will marked starting with the next bill period and marking will continue until the Customer orders marking discontinued. The Customer shall, when it orders marking removed, furnish the telephone number of each end user account for which the mark is to be removed. The mark will be removed prior to the next bill period.

8.4.5 Payment Arrangements

(A) Minimum Periods and Minimum Monthly Charges

The minimum period for which billing information service CRIS and/or DBAS file interrogation is provided and for which charges apply is one year.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.5 Payment Arrangements (continued)

(A) Minimum Periods and Minimum Monthly Charges (continued)

The minimum monthly charges for CRIS and/or DBAS file interrogation are the charges for the total number of requests per business day furnished by the Customer as set forth in Section 8.4.4(D) preceding times 18 (i.e., 20 business days per month times 0.9).

When the Customer discontinues the service prior to the end of the one-year minimum period, the minimum monthly charge for the data base interrogation will apply for each remaining month and fraction of month.

(B) Cancellation of a Special Order

A Customer may cancel a special order for billing information service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the Customer that the special order is to be canceled. The verbal notice must be followed by written confirmation within 10 days. The service date for a billing information service is the date the Telephone Company notifies the Customer that the Telephone Company is ready to provide billing information service reports or receive interrogation requests.

When a Customer cancels a special order for billing information service after the order date but prior to the start of service, charges as listed following shall apply:

(1) For any service, the appropriate per hour rate for all hours expended by the Telephone Company to provide the service.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.5 Payment Arrangements (continued)

(B) Cancellation of a Special Order (continued)

(2) For any service, any expense for equipment obtained for the service where such equipment cannot be reused within six months.

(C) Changes to Special Orders

When the Customer requests changes for a pending special order for billing information service, they will be undertaken if they can be accommodated by the Telephone Company. Any additional time required on the part of Telephone Company personnel will be billed to the Customer at the appropriate hourly charges.

8.4.6 Rate Regulations

(A) The number and type of records for which charges apply as set forth in 17.4 following will be accumulated by the Telephone Company and the Telephone Company will bill the Customer in accordance with these accumulations. A record is a logical grouping of information as described in the programs that process the information, print the paper output, and load the magnetic tape or data file used to supply the detail which is data-transmitted or put on fiche. For each service and type of output ordered, the number of records processed by the Telephone Company to prepare the output will be used to determine the charges. The number of records processed will be determined using the number of records input to or the number of records output form the programs that process the information, print the paper output and load the magnetic tape or data file, whichever number of records is higher.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.6 Rate Regulations (continued)

(B) The number of hours and fraction thereof for which charges apply as set forth in Section 17.4 will be accumulated by the Telephone Company. The per hour rate is for the use of one hour of one Telephone Company programmer. The Telephone Company will bill the Customer for hourly charges in accordance with these accumulations. The accumulated hours for each order will be summed and rounded to the nearest hour, except that when the total is less than one hour, one hour will be used to determine the charges.

(C) When a CNA request is received, the Telephone Company will keep a count of the requests. The Telephone Company will bill the Customer in accordance with these records even though the Telephone Company was not able to provide a name and town location for all requests.

(D) When records are entered on a data file or magnetic tape in order to provide information to a Customer, the per tape charge applies for each data file or tape prepared. In addition, the per record charge applies for each record entered on the data file or tape. The Telephone Company will determine the charges based on the number of data files or tapes prepared and on its count of the records entered on the data file or tape.

(E) When marking of message end user accounts is ordered, the marking charge applies for each end user account marked. Once an account is marked, the maintenance of mark charge applies for each month following the month the account is marked until the Customer requests the mark be removed. No charges apply to remove the mark.

ACCESS SERVICE

8. Billing and Collection Services (continued)

8.4 Billing Information Service (continued)

8.4.6 Rate Regulations (continued)

(F) The provision of billing information service per special order charge applies for each special order accepted by the Telephone Company for any billing information service.

{1} See Section 7.4.2 preceding for application of Special Access Service Surcharge.

ACCESS SERVICE

10. Special Federal Government Access Services

10.1 General

10.1.1 General Description

This covers Special Access Services that are provided to a customer for use only by agencies or branches of the Federal Government and other users authorized by the Federal Government. Services provided to state emergency operations centers are included. These services provide for command and control communications, including communications for nation security, emergency preparedness and presidential requirements. They are required to assure continuity of Government in emergency and crisis situations and to provide for national security.

Services for command and control communications and for national security and emergency preparedness sometimes require short notice and short duration service provisions. These provisions are especially needed to meet presidential requirements or in response to natural, man-made, or declared emergencies. Requirements of this type cannot be forecasted and are usually needed for a relatively short period. The provision of service under these conditions may require the availability of facilities, such as portable microwave equipment, which are provided on a temporary basis by the Telephone Company or customer.

10.2 Emergency Conditions

These services will be provided on the date requested or as soon as possible thereafter when the emergency falls into one of the following categories:

- State of crisis declared by the National Command Authorities (includes commitments made to the National Communications System in the "National Plan for Emergencies and Major Disasters").

- Efforts to protect endangered U.S. personnel or property both in the U.S. and abroad. (Includes space vehicle recovery and protection efforts.)

- Communications requirements resulting from hostile action, a major disaster or a major civil disturbance.

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

. 10.2 Emergency Conditions (Cont'd)

. - The director (Cabinet level) of a Federal department, Commander of a Unified/Specified Command, or head of a military department has certified that a communications requirement is so critical to the protection of life and property or to the National Defense that it must be processed immediately.

. - Political unrest in foreign countries which affect the national interest.

. - Presidential service.

. 10.3 Intervals to Provide Service

. Services provided under the provisions or this section of the tariff are provided on an individual case basis. Therefore, orders for such service shall be placed under the Negotiated Interval provisions set forth in 5.2.1(B) preceding.

. **10.4 Safeguarding of Service**

. **10.4.1 Facility Availability**

. In order to insure communications during periods of emergency, the Telephone Company will, within the limits of good management, make available the necessary facilities to restore service in the event of damage or to provide temporary emergency service.

. In order to meet the requirements of agencies or branches of the Federal Government, the Telephone Company may utilize government-owned facilities, when necessary to provide service.

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.5 Federal Government Regulations

In accordance with Federal Government Regulations, all service provided to the Federal Government will be billed in arrears. However, this provision does not apply to other customers that obtain services under the provisions of this tariff to provide their services to the Federal Government.

10.6 Service Offerings to the Federal Government

The following unique services are provided to a customer for use only by agencies or branches of the Federal Government, other authorized users and state emergency operations centers. The rates and charges for these services shall be developed on an individual case basis and shall be consistent with the rates and charges for services offered in other sections of this tariff.

10.6.1 Type and Description

(A) Voice Grade Special Access Services

(1) Voice Grade Secure Communications Type I

Approximate bandwidth of 10-50,000 Hertz. Furnished for two-point secure communications on two-wire or four-wire metallic facilities between an IC premises location and an end user's premises. Services are conditioned as follows:

T-3 Conditioning - The absolute loss (referenced to 1 milliwatt) with respect to frequency shall not exceed:

15 dB at 10 Hz
13 dB at 100 Hz
9 dB at 1,000 Hz
20 dB at 10,000 Hz
30 dB at 50,000 Hz

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.6 Service Offerings to the Federal Government (cont'd)

10.6.1 Type and Description (cont'd)

(A) Voice Grade Special Access Services (cont'd)

(1) Voice Grade Secure Communications Type I (cont'd)

Additional conditioning (available in one or two directions on four-wire facilities only) to provide the following characteristics:

The absolute loss (referenced to one milliwatt) with respect to frequency shall not exceed:

0 dB at 1,000 Hz
± 1 dB between 1,000 Hz and 40,000 Hz
± 2 dB between 10 Hz and 50,000 Hz
(+ means more loss)

The net loss of the conditioned service (with or without additional conditioning) shall not vary by more than four dB at 1,000 Hz from the levels specified above. Voice frequency signaling or supervisory tones can be transmitted.

(2) Voice Grade Secure Communications Type II

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between an IC premises on an end user's premises and an end user's premises. Services are conditioned as follows:

G-1 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same as Voice Grade Secure Communications Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

. 10.6 Service Offerings to the Federal Government (cont'd)

. 10.6.1 Type and Description (cont'd)

. (A) Voice Grade Special Access Services (cont'd)

. (3) Voice Grade Secure Communications Type III

. Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between an IC premises switch and an end user's premises. Services are conditioned as follows:

. G-2 Conditioning - The absolute loss with respect to frequency and the net loss variation from the switch to an end user's premises shall be the same as Voice Grade Secure Communications Type I services without additional conditioning; from an end user's premises to the switch shall be the same as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

. (4) Voice Grade Secure Communications Type IV

. Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between two IC premises switches. Service are conditioned as follows:

. G-3 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same in both directions of transmission as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.6 Service Offerings to the Federal Government (cont'd)

10.6.1 Type and Description (cont'd)

(B) Wideband Digital Special Access Service

Service arrangements for secured communications to accommodate the transmission of binary digital baseband signals in a random polar format.

(1) Wideband Secure Communications Type I

For transmission at the rate of 18,750 bits per second.

(2) Wideband Secure Communications Type II

For transmission at the rate of 50,000 bits per second.

(3) Wideband Secure Communications Type III

To accommodate the transmission of restored polar two-level facsimile signals with a minimum signal element width of twenty microseconds at a rate of 50,000 bits per second.

To accommodate the transmission of binary digital baseband signals in a random polar format at the rate of 50,000 bits per second.

10.6.2 Mileage Application

Mileage, when used for rate application between two serving wire centers, shall be determined by the V and H Coordinates Methods as set forth in 2.7 preceding.

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

. 10.6 Service Offerings to the Federal Government (Cont'd)

. 10.6.3 Rates and Charges

. (A) Move Charges

. (1) When service without a termination charge associated with it, as set forth in Section 17.6 following, is move to a different building, the nonrecurring charge applies; when moved to a new location in the same building, a charge of one-half the nonrecurring charge applies.

. (2) When a service with a termination charge associated with it, as set forth in Section 17.6 following, is moved and is reinstalled at a new location, the customer may elect:

. - to pay the unexpired portion of the termination charge for the service, if any, with the application of a nonrecurring charge and the establishment of a new termination charge for such service at the new location, or

. - to continue service subject to the unexpired portion of the termination charge, if any, and pay the estimated costs of moving such service, provided that the customer requests these charges be quoted prior to ordering the service move. Charges for moving such service will be based on estimated costs attributable to the move.

. Move charges include the estimated costs of removal, restoration of services or facilities necessitated by the move, transportation, storage, reinstallation, engineering, labor, supervision, materials, administration, and any other specific items of cost directly attributable to the move.

ACCESS SERVICE

11. Special Facilities Routing of Access Services

. 11.1 Description of Special Facilities Routing of Access Services

. The services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Special Facilities Routing is involved when, in order to comply with requirements specified by the customer, the Telephone Company provides Switched Access Service, Special Access Service or Special Federal Government Access Service in a manner which includes one or more of the following conditions:

. 11.1.1 Diversity

. Two or more services must be provided over not more than two different physical routes.

. 11.1.2 Avoidance

. A service must be provided on a route which avoids specified geographical locations.

. 11.1.3 Cable-Only Facilities

. Certain Voice Grade services are provided on Cable-Only Facilities to meet the particular needs of a customer.

. Service is provided subject to the availability of Cable-Only Facilities. In the event of service failure, restoration will be made through the use of any available facilities as selected by the Telephone Company.

. Avoidance and Diversity are available on Switched Access Service as set forth in Section 6 preceding; Narrowband, Voice Grade and Wideband Analog Special Access Services as set forth in Section 7.2.1, Section 7.2.2 preceding and Special Federal Government Access Services as set forth in Section 10.6 preceding. Cable-Only Facilities are available for Switched Access Service as set forth in Section 6. preceding; Voice Grade Special Access Services as set forth in Section 7.2.2 preceding and Special Federal Government Access Services as set forth in Section 10.6 preceding.

ACCESS SERVICE

11. Special Facilities Routing of Access Services (Cont'd)

. 11.1 Description of Special Facilities Routing of Access Services (Cont'd)

. In order to avoid the compromise of special routing information, the Telephone Company will provide the required routing information for each specially routed service to only the ordering customer. If requested by the customer, this information will be provided when service is installed and prior to any subsequent changes in routing.

. The rates and charges for Special Facilities Routing of Access Services will be developed on an individual case basis & are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

ACCESS SERVICE

12. Specialized Service or Arrangements

. 12.1 General

. Specialized Service or Arrangements may be provided by the Telephone Company, at the request of a customer, on an individual case basis if such service or arrangements meet the following criteria:

. - The requested service or arrangements are not offered under other sections of this tariff.

. - The facilities utilized to provide the requested service or arrangements are of a type normally used by the Telephone Company in furnishing its other services.

. - The requested service or arrangements are provided within a LATA.

. - The requested service or arrangements are compatible with other Telephone Company services, facilities, and its engineering and maintenance practices.

. - This offering is subject to the availability of the necessary Telephone Company personnel and capital resources.

Rates and charges and additional regulations if applicable, for Specialized Service or Arrangements are provided on an individual case basis and are as set forth in 17.7 following.

Termination Liability

Termination Liability charges are applicable when any one of the following conditions are met:

- The customer disconnects the service or circuit prior to the expiration of the contract period.

- The customer requests that a circuit be moved to another location.

- When the jurisdiction of the circuit changes to intrastate.

When the total contract period has been completed, the customer will revert to month-to-month rates, unless the customer requests a new discount plan period.

There are two (2) types of Termination Liability calculations. The first is when the minimum period of twelve months is not fulfilled and the second is when the minimum period of twelve months is fulfilled but the total contract period was not met.

ACCESS SERVICE

12. Specialized Service or Arrangements

12.1 General (Cont'd)

When the minimum period of twelve months is not fulfilled, the Termination Liability calculation is as follows:

(# of months in minimum period x current monthly rate) - (# of months service was in place x (current monthly rate x (1-discount percent)))

As an example, a customer subscribed to a 36 month total contract period which had a 10 percent discount. The current monthly rate is $100. The customer disconnected service after the 5th month. The Termination Liability charges would be:

(12 months x $100) - (5 months x ($100 x (1-10%)))
= $750 Termination Liability Charges

When the minimum period of twelve months is fulfilled but the total contract period has not expired, the Termination Liability calculation is as follows:

(# of months service was in place x current monthly rate x discount percent)

As an example, a customer subscribed to a 36 month total contract period which had a 10 percent discount. The current monthly rate is $100. The customer disconnected service after the 15th month. The Termination Liability charges would be:

(15 months x $100 x 10%)
= $150 Termination Liability Charges

12.2 Terms and Conditions

12.2.1 Alternative DS3 Service

Provision of interoffice facilities provided by a competitive access provider for non multiplexed DS3 service from the Sugar Land exchange to carriers in Houston. This specialized arrangement will enable DS3 service to be provided by Sugar Land Telephone to customers served by the Sugar Land exchange.

Section 17.7 contains the rates and available locations.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services

. 13.1 Additional Engineering

. Additional Engineering will be provided by the Telephone Company at the request of the customer only when:

. **13.1.1** A customer requests additional technical information after the Telephone Company has already provided the technical information normally included on the Design Layout Report (DLR) as set forth in Section 6.1.5 and Section 7.1.7 preceding.

. **13.1.2** A customer requests the provision of engineering activities which are not normally provided as part of the design and installation of a service.

. **13.1.3** Additional engineering time is incurred by the Telephone Company to engineer a customer's request for a customized service as set forth in 7.1.1 preceding. The Telephone Company will notify the customer that additional engineering charges, as set forth in Section 13.1.3 following, will apply before any additional engineering is undertaken.

. **13.1.4** Charges For Additional Engineering

. The charges for additional Engineering are found in Section 17.3.7.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

. **13.2 Additional Labor**

. Additional labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in 13.2.1 through 13.2.5 following. The Telephone Company will notify the customer that additional labor charges as set forth in 13.2.6 following will apply before any additional labor is undertaken.

. **13.2.1 Overtime Installation**

. Overtime installation is that Telephone Company installation effort outside of regularly scheduled working hours.

. **13.2.2 Overtime Repair**

. Overtime repair is that Telephone Company maintenance effort performed outside of regularly scheduled working hours.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.2 Additional Labor (Cont'd)

13.2.3 Stand By

Stand by includes all time in excess of one-half (1/2) hour during which Telephone Company personnel stand by to make installation acceptance tests or cooperative tests with a customer to verify facility repair on a given service.

13.2.4 Testing and Maintenance with Other Telephone Companies

Additional testing, maintenance or repair of facilities which connect to facilities of other telephone companies, which is in addition to normal effort required to test, maintain or repair facilities provided solely by the Telephone Company.

13.2.5 Other Labor

Other Labor is that additional labor not included in 13.2.1 through 13.2.4 preceding.

13.2.6 Charges for Additional Labor

The charges for additional labor are found in Section 17.5.2.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services

13.3.1 Maintenance of Service

(A) When a customer reports a trouble to the Telephone Company for clearance, the customer shall be responsible for payment of a Maintenance of Service charge when Telephone Company personnel are dispatched to the customer's premises and no trouble is found in the Telephone Company's facilities. The charge shall be applied only after the customer has been shown and is satisfied that the Telephone Company's facilities are functioning properly. Failure of Telephone Company personnel to find trouble in Telephone Company facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.

(B) The customer shall be responsible for payment of a Maintenance of Service charge when the Telephone Company dispatches personnel to the customer's premises, and the trouble is in equipment or communications systems provided by other than the Telephone Company or in detariffed CPE provided by the Telephone Company.

In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service Charge applies.

(C) The charges for Maintenance of Service are found in Section 17.5.3.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.2 Restoration Priority

The Telephone Company will arrange a Special Access Service for Restoration Priority on receipt of certification in conformance with Part 64, Subpart D, Appendix A of the Federal Communication Commission's Rules and Regulations. A charge applies when a request to provide or change a Restoration Priority is received subsequent to the issuance of an Access Order to install the service. No charge applies when a Restoration Priority is discontinued.

The Restoration Priority Charge is found in Section 17.5.4.

13.3.3 Presubscription

(A) Presubscription is an arrangement whereby an end user may select and designate to the Telephone Company an IC to access, without an access code, for interLATA intrastate calls. This IC is referred to as the end user's predesignated IC.

(B) On the effective date of this tariff, all existing end users will have access to interstate MTS/WATS. Within six (6) months after the introduction of Feature Group D in a serving end office, end users may select one of the following options at no charge.

- Designate an IC as predesignated IC and dial 10XXX or other access codes (i.e., 950-10XX) to reach other ICs.

- Designate that they do not want to be presubscribed to any IC and choose to dial 10XXX or other access codes (i.e., 950-10XX) for all calls to all ICs, including AT&T. After the end user's initial selection of a predesignated ICs, for any additional change in selection, a nonrecurring charge, as set forth in (D) following, applies.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.3 Presubscription (Cont'd)

(C) New end users, who are served by end offices equipped with Feature Group D, will be asked to presubscribed to an IC at the time they place an order with the Telephone Company for Telephone Exchange Service. They may select either of the following options. There will be no additional charge for this initial selection.

- Designate an IC as predesignated IC and dial 10XXX or other access codes (i.e., 950-10XX) to reach other ICs.

- Designate that they do not want to be presubscribed to any IC and choose to dial 10XXX or other access codes (i.e., 950-10XX) for all calls to all ICs.

Subsequent to the installation of Telephone Exchange Service, and after the end user's initial selection of a predesignated IC, for any additional change in selection, a nonrecurring charge, as set forth in (D) following, applies.

(D) The nonrecurring charge for Presubscription is found in Section 17.5.5.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

. 13.3 Miscellaneous Services (Cont'd)

. 13.3.4 IntraLATA Presubscription (ILP)

(A) Presubscription is an arrangement whereby an end user may select and designate to the Telephone Company an interexchange Carrier (IC) to access, without an access code, for intraLATA intrastate toll calls. This IC is referred to as the end user's predesignated IC.

(B) New end users who subscribe to service after the ILP implementation date will be asked to select a predesignated IC when they place an order for Telephone Company Exchange Service. If a customer cannot decide upon an intraLATA IC, the customer will be assigned a 'No-Pic' and will have to dial an access code to make intraLATA toll calls.

An existing customer who does not make a choice for a predesignated IC when intraLATA equal access becomes available shall default to the serving Telephone Company.

During the first 180 days following ILP implementation new and existing end users will be able to make their initial intraLATA IC selection at no charge, any changes made 180 days after implementation will be subject to a nonrecurring charge as set forth in Section 17.5.6(A).

(C) If a customer has selected more than one intraLATA IC, the Telephone Company will process the PIC with the latest customer authorization date.

(D) An annual surcharge will be imposed on intraLATA toll providers to recover over a three-year period the Telephone Company's total service long run incremental cost of implementing intraLATA equal access, in accordance with Public Utility Commission Substantive Rule 23.103(f). The surcharge, as set forth in Section 17.5.6(B), will be billed to intraLATA toll providers using its originating intraLATA Switched Access minutes for the previous year.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services

Testing Services offered under this section of the tariff are optional and subject to rates and charges as set forth in 13.3.5(C) following. Other testing services provided by the Telephone Company in association with Access Services are furnished at no additional charge. These other testing services are described in 6.2.4 (A) and (B) preceding.

Testing services are normally provided by Telephone Company personnel at Telephone Company locations. However, provisions are made in (A)(5) and (B)(2) following for a customer to request Telephone Company personnel to perform testing services at the customer's premises. The offering of Testing Services under this section of the tariff is made subject to the availability of the necessary qualified personnel and test equipment at the various test locations mentioned in (A), (B) and (C) following.

(A) Switched Access Service

Testing Services for Switched Access are comprised of (a) tests which are performed during the installation of a Switched Access Service, and (b) tests which are performed after acceptance of such access services by a customer i.e., in-service tests. These in-service tests may be further divided into two broad categories of tests: scheduled and non-scheduled.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

Scheduled tests are those tests performed by the Telephone Company on a regular basis, e.g., monthly, which result in the measurement of Switched Access Service. Scheduled tests may be done on an automatic basis (no Telephone Company or customer technicians involved), on a cooperative basis (Telephone company technician(s) involved at Telephone Company office(s) and customer technician(s) involved at customer's premises), or a manual basis (Telephone Company technician(s) involved at Telephone Company office(s) and at customer's premises).

Nonscheduled tests are performed by the Telephone Company "on demand", which result in the measurement of Switched Access Services. Nonscheduled tests may involve Telephone Company technicians at Telephone Company offices and at the customer's premises.

(1) Additional Cooperative Acceptance Testing

Additional Cooperative Acceptance Testing (ACAT) of Switched Access Service involves the Telephone Company provision of a technician at its office(s) and the customer provides a technician at its premises, with suitable test equipment to perform the required tests. Additional Cooperative Acceptance Tests may, for example, consist of the following tests:

- C-Notched Noise
- Impulse Noise
- Phase Jitter
- Signal to C-Notched Noise Ratio
- Intermodulation (Nonlinear Distortion)
- Frequency Shift (Offset)
- Envelope Delay Distortion
- Dial Pulse Percent Break

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(2) Automatic Scheduled Testing

Automatic Scheduled Testing (AST) of Switched Access Services (Feature Groups B, C, and D), where the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent, will consist of monthly loss and C-message noise tests and annual balance test. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance tests, the IC may also order, at additional charges, gain-slope and C-notched noise testing.

The Telephone Company will provide a monthly AST report that lists the test results from each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as occurs basis.

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ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

. **13.3 Miscellaneous Services (Cont'd)**

. **13.3.5 Testing Services (Cont'd)**

. (A) Switched Access Service (Cont'd)

. (3) Cooperative Scheduled Testing

. Cooperative Scheduled Testing (CST) of Switched Access Services (Feature Groups B, C, D and Directory Access Service not routed through an access tandem), where the Telephone Company provides a technician at its office(s) and the customer provides a technician at its premises, with suitable test equipment to perform the required tests, will consist of quarterly loss and C-message noise tests, and annual balance tests. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance measurements, the customer may also order, at additional charges, gain-slope and C-notched noise testing.

. The Telephone Company will provide, on a quarterly basis, a CST report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

. **13.3 Miscellaneous Services (Cont'd)**

. **13.3.5 Testing Services (Cont'd)**

. (A) Switched Access Service (Cont'd)

. (4) Manual Scheduled Testing

. Manual Scheduled Testing (MST) of Switched Access Services (feature Groups B, D, and Directory Access Service not routed through an access tandem), where the Telephone Company provides a technician at its office(s) and at the customer's premises, will consist of quarterly loss and C-message noise tests, and annual balance tests. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance tests, the customer may also order, at additional charges, gain-slope and C-notched noise testing.

. The Telephone Company will provide, on a quarterly basis, a MST report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(5) Nonscheduled Testing

Nonscheduled Testing (NST) of Switched Access Services is where:

- the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent ("automatic testing"), or
- the Telephone Company provides a technician at its office(s) and the customer provides a technician at its premises, with suitable test equipment to perform the required tests ("cooperative testing"), or
- the Telephone Company provides a technician at its offices, and/or at the customer's premises with suitable test equipment to perform the required tests ("manual testing").

Nonscheduled Tests may consist of any tests, e.g., loss, noise, slope, envelope delay, which the IC may require.

(6) Obligations of the Customer

(A) The customer shall provide the Remote Office Test Line priming data to the Telephone Company, as appropriate, to support AST as set forth in 13.3.5(A)(2) preceding or NST as set forth in 13.3.5(A)(5) preceding.

(B) The customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(B) Special Access Service

The Telephone Company will, at the request of a customer, provide assistance in performing specific tests requested by the customer.

(1) Additional Cooperative Acceptance Testing (ACAT)

When a customer provides a technician at its premises or at an end user's premises, with suitable test equipment to perform the requested tests, the Telephone Company will provide a technician at its office for the purpose of conducting Additional Cooperative Acceptance Testing or Voice Grade Services. At the customer's request, the Telephone Company will provide a technician at the customer's premises or at the end user premises. These tests may, e.g., consist of the following:

- VG1 through VG5: Attenuation Distortion, C-Message Noise and Echo Control

- VG6 through VG12: Attenuation Distortion, C-Message Noise, Echo Control, Impulse Noise, Phase Jitter, Intermodulation Distortion, Envelope Delay Distortion and Frequency Shift.

(2) Nonscheduled Testing (NST)

When a customer provides a technician at its premises with suitable test equipment to perform the required tests, the Telephone Company will provide a technician at its office for the purpose of conducting Nonscheduled Testing. At the customer's request, the telephone Company will provide a technician at the customer's premises. Nonscheduled tests may consist of any tests, e.g., loss, noise, slope, envelope delay, which the customer may require.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

. **13.3 Miscellaneous Services (Cont'd)**

. **13.3.5 Testing Services (Cont'd)**

. (B) Special Access Service (Cont'd)

. (3) Obligation of the Customer

. When the customer subscribes to the Testing Service as set forth in this section, the customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

. (C) Rates and Charges

. (1) Switched Access

. (a) Additional Cooperative Acceptance Testing

. See Section 17.5.7 for applicable Rates and Charges.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

. **13.3 Miscellaneous Services (Cont'd)**

. **13.3.5 Testing Services (Cont'd)**

. (C) Rates and Charges (Cont'd)

. (1) Switched Access (Cont'd)

. (b) Automatic Scheduled Testing (AST)

. The three tests as set forth in Section 17.5.7(B) following represent the minimum offering, i.e., an order for testing must, at a minimum, consist of twelve 1004 Hz Tests per transmission path, twelve C-Message Noise Tests per transmission path and one Return Loss (Balance) Test per transmission path, per year. The Additional Tests as set forth in Section 17.5.7(B) following may be ordered by the customer, at additional charges, 60 days prior to the start of the customer prescribed schedule. The customer also may specify a more frequent schedule of tests 60 days prior to the start of the customer prescribed schedule.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

. **13.3 Miscellaneous Services (Cont'd)**

. **13.3.5 Testing Services (Cont'd)**

. (C) Rates and Charges (Cont'd)

. (1) Switched Access (Cont'd)

. (c) Cooperative Scheduled Testing (CST)

. The three tests as set forth in Section 17.5.7(C) following represent the minimum offering, i.e., an order for testing must, at a minimum, consist of four 1004 Hz Loss Tests per transmission path, four C-Message Noise Tests per transmission path and one Return Loss (Balance) Test per transmission path, per year. The Additional tests as set forth in Section 17.5.7(C) following may be ordered by the customer, at additional charges, 60 days prior to the start of the customer prescribed schedule. The customer also may specify a more frequent schedule of tests 60 days prior to the start of the customer prescribed schedule.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(d) Manual Scheduled Testing (MST)

The three tests as set forth in Section 17.5.7(D) following represent the minimum offering, i.e., an order for testing must, at a minimum, consist of four 1004 Hz Loss Tests per transmission path, four per transmission path and one Return Loss (Balance) Test per transmission path, per year. The Additional Tests as set forth in Section 17.5.7(D) following may be ordered by the customer, at additional charges, 60 days prior to the start of the customer prescribed schedule. The customer also may specify a more frequent schedule of tests 60 days prior to the start of the customer prescribed schedule.

See Section 17.5.7(D) for Rates and Charges.

(e) Nonscheduled Testing (NST)

The Rates and Charges for Nonscheduled Testing (NST) are found in Section 17.5.7(E).

(2) Special Access

(a) Additional Cooperative Acceptance Testing (ACAT)

See Section 17.5.8(A) for Rates and Charges.

(b) Nonscheduled Testing (NST)

See Section 17.5.8(B) for Rates and Charges.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

. **13.3 Miscellaneous Services (Cont'd)**

. **13.3.6 Provision of Access Service Billing Information**

Billing Mediums

The customer shall select the primary medium in which its official access service bills and customer service records are to be provided. This selection shall be on an account level basis, and shall be submitted in writing to the Telephone Company.

(A) Primary Bill

At no charge to the customer, the customer shall select as the primary billing medium one of the following billing formats: standard paper, magnetic tape, or data transmission. The primary billing medium shall serve as the customer's official bill. Should the customer fail to make a selection, the official copy of the customer's access service bills and customer service records will be provided in the standard paper format.

Upon acceptance by the Telephone Company of an order for electronic data transfer, the Telephone Company will determine the period of time to implement the transmission of such material on an individual order basis.

When magnetic tape or data transmission is requested as the primary monthly bill, the customer must sign a Document of Understanding.

When magnetic tape or data transmission is requested as the primary monthly bill, the customer will receive an abbreviated bill in paper format. The abbreviated bill will contain the following sections: All Page, Balance Due, Meet Point Billing Cross Reference, Detail of Payments Applied, Detail of Balance Due, Detail of Late Payment Charges, and Other Charges and Credits.

The Telephone Company will accept a request for change from one form of primary billing medium to another at no charge to the customer.

(B) Secondary Bill

At the customer's written request, a secondary bill, in addition to the customer's primary bill will be provided on a monthly basis. The customer may choose as the medium for the secondary bill one of the following formats: standard paper, magnetic tape, or data transmission. Charges for the provision of a secondary bill are set forth in 17.5.9 following.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

. **13.3 Miscellaneous Services (Cont'd)**

. **13.3.6 Provision of Access Service Billing Information (Cont'd)**

(B) Additional Copies

Additional copies of a customer's previous monthly access service bills will be provided in paper format, or magnetic tape/data transmission if the original bill was generated in this format. Requests for additional copies of previous monthly bills must be submitted in writing and shall specify the bill dates requested. Such a request, when not the result of a Telephone Company error will be subject to charges as set forth in 17.5.9 following. Unless specified otherwise, additional copies of the customer's access service bills and/or magnetic tapes will be sent via U.S. Mail Service.

. **13.3.7 Protective Connecting Arrangements**

. The Protective Connecting Arrangements (PCAs) are grandfathered and are offered subject to on-the-shelf availability.

. The Rates and Charges are found in Section 17.5.10.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications

Section 15.1 contains Switched Access Service Options (which are comprised of Interface Groups, Supervisory Signaling, Entry Switch Receive Level and Local Transport Termination) and Transmission Specifications.

15.1 Switched Access Service

Ten Interface Groups are provided for terminating the Local Transport at the customer's designated premises. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities Permit, the individual transmission path between the customer's designated premises and the first point of switching may, at the option of the customer, be provided with optional features as set forth in Section 15.1.1 following.

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer designated premises, the need for signaling conversions or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Telephone Company equipment be placed at the customer designated premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer designated premises are digital, then Telephone Company channel bank equipment must be placed at the customer designated premises in order to provide the voice frequency interface ordered by the customer.

15.1.1 Local Transport Interface Groups

Interface Groups are combinations of technical parameters which describe the Telephone Company handoff at the Point of termination at the customer designated premises. The technical specifications concurring the available interface groups and set forth in (A) through (D) following.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Group A (Cont'd)

Interface Group 1 is Provided with Type C Transmission Specifications, as set forth in Section 15.1.2(C) following, and Interface Groups 2 through 10 are Provided with Type A or B Transmission Specifications, as set forth respectively in Section 15.1.2(E) and (F) following, depending on the Feature Group and whether the Access Service is routed directly or through an access tandem. All Interface Groups are provided with Data Transmission Parameters.

Only certain premises interfaces are available at the customer designated premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups.

(A) Interface Group 1

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Interface Group 1 is not provided in association with FGC and FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB, FGC or FGD when the first point of switching provides only four-wire terminations.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(A) Interface Group (Cont'd)

The transmission path between the point of termination at the customer designated premises and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(B) Interface Group 2

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The transmission path between the point of termination at the customer designated premises and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(B) Interface Group 2 (Cont'd)

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(C) Interface Groups 3 through 5

Interface Groups 3 through 5 provide analog transmission at the point of termination at the customer designated premises. The various interfaces are capable of transmitting electrical signals at the frequencies illustrated following, with the capability to channelize voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Groups are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex equipment to derive the transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interfaces are provided with individual transmission path SF supervisory signaling.

Interface Group Identification No.	Transmission Frequency Bandwidth	Analog Hierarchy Level	Maximum No. of Channelized Voice Freq. Trans. Paths
3	60 - 108 kHz	Group	12
4	312 - 552 kHz	Supergroup	60
5	564 - 3084 kHz	Mastergroup	600

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(D) Interface Groups 6 through 10

Interface Groups 6 through 10 provide digital transmission at the point of termination at the customer designated premises. The various interfaces are capable of transmitting electrical signals at the nominal bit rates illustrated following, with the capability to channelize voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, a DS1 signal(s) in D3/D4 format.

The interfaces are provided with individual transmission path bit stream supervisory signaling.

Interface Group Identification No.	Nominal Bit Rate (Mbps)	Digital Hierarchy Level	Max. No. of Channelized Voice Freq. Trans. Paths
6	1.544	DS1	24
7	3.152	DS1C	48
8	6.312	DS2	96
9	44.736	DS3	672
10	274.176	DS4	4032

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(E) Local Transport Optional Features

Where transmission facilities permit, the Telephone Company will, at the option of the customer, provide the following features in association with Local Transport. An Access Order Charge as specified in 17.4.1(A) following is applicable on a per order basis when nonchargeable optional features are added subsequent to the installation of service.

- Customer Specified Entry Switch Receive Level

  Customer Specified Entry Switch Receive Level allows the customer to specify the receive transmission level at the first point of switching. The range of transmission levels which may be specified is described in Technical Reference TR-NPL-000334. This feature is available with Interface Group 2 through 10 for Feature Groups A and B.

- Customer Specification of Local Transport Termination

  Customer Specification of Local Transport Termination allows the customer to specify, for Feature Group B routed directly to an end office or access tandem, a four-wire termination of the Local Transport at the first point of switching in lieu of a Telephone Company selected two- wire termination. This option is available only when the Feature Group B arrangement is provided with Type B Transmission Specifications.

- Supervisory Signaling

  Supervisory Signaling allows the customer to order an optional supervisory signaling arrangement for each transmission path provided where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(E) Local Transport Optional Features (Cont'd)

The Interface Groups, as described in (A) through (D) preceding, represent industry standard arrangements. Where transmission parameters permit, the customer may select the following optional signaling arrangements in place of the signaling arrangements standard associated with the Interface Groups.

- For Interface Groups 1 and 2 associated with FGB, FGC or FGD DX Supervisory Signaling,

  E&M Type I Supervisory Signaling,
  E&M Type II Supervisory Signaling, or
  E&M Type III Supervisory Signaling

- For Interface Group 2 associated with FGB, FGC or FGD and in addition to the preceding

SF Supervisory Signaling, or Tandem Supervisory Signaling

- For Interface Groups 3 through 5

Optional Supervisory Signaling Not Available

- For Interface Groups 6 through 10

These Interface Groups may, at the option of the customer, be provided with individual transmission Path SF supervisory signaling where such signaling is available in Telephone Company central offices. Generally such signaling is available only where the first point of switching provides an analog (i.e., non digital) interface to the transport termination.

Additionally, in (F) following, there is a matrix of available Premises Interface Codes as a function of Interface Group, Telephone Company Switch Supervisory Signaling and Feature Group.

These optional supervisory signaling arrangements are not available in combination with the SS7 ordering option.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes

Following is a matrix showing premises interface codes which are available for each Interface Group. Their availability is a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see the Parameter Codes and Options as set forth in Section 15.2.2(A) following.

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	B	C	D
1	LO	2LS2	X			
	LO	2LS3	X			
	GO	2GS2	X			
	GO	2GS3	X			
	LO, GO,	2DX3	X			
	LO, GO,	4EA3-E	X			
	LO, GO	4EA3-M	X			
	LO, GO	6EB3-E	X			
	LO, GO	6EB3-M	X			
	RV, EA, EB, EC	2DX3		X	X	X
	RV, EA, EB, EC	4EA3-E		X	X	X
	RV, EA, EB, EC	4EA3-M		X	X	X
	RV, EA, EB, EC	6EB3-E		X	X	X
	RV, EA, EB, EC	6EB3-M		X	X	X
	EA, EB, EC	6EC3		X	X	
	RV	2RV3-0		X	X	X
	RV	2RV3-T		X	X	X
	SS7	2NO2				X
2	LO, GO	4SF2	X			
	LO, GO	4SF3	X			
	LO	4LS2	X			
	LO	4LS3	X			
	LO	4LS2	X			

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	B	C	D
2	GO	4GS2	X			
	GO	4GS3	X			
	GO	6GS2	X			
	LO, GO	4DX2	X			
	LO, GO	4DX3	X			
	LO, GO	6EA2-E	X			
	LO, GO	6EA2-M	X			
	LO, GO	8EB2-E	X			
	LO, GO	8EB2-M	X			
	LO, GO	6EX2-B	X			
	RV, EA, EB, EC	4SF2		X	X	X
	RV, EA, EB, EC	4SF3		X		
	RV, EA, EB, EC	4DX2		X	X	X
	RV, EA, EB, EC	4DX3		X		
	RV, EA, EB, EC	6DX2			X	
	RV, EA, EB, EC	6EA2-E		X	X	X
	RV, EA, EB, EC	6EA2-M	X	X	X	
	RV, EA, EB, EC	8EB2-E		X	X	X
	RV, EA, EB, EC	8EB2-M		X	X	X
	EA, EB, EC	8EC2-M			X	X
	RV	4RV2-O		X	X	X
	RV	4RV2-T		X	X	X
	RV	4RV3-0		X	X	
	RV	4RV3-T		X	X	
	SS7	4NO2				X

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	B	C	D
3	LO, GO	4AH5-B	X			
	RV, EA, EB, EC	4AH5-B		X	X	X
	SS7	4AH5-B				X
4	LO, GO	4AH6-C	X			
	RV, EA, EB, EC	4AH6-C		X	X	X
	SS7	4AH6-C				X
5	LO, GO	4AH6-D	X			
	RV, EA, EB, EC	4AH6-D		X	X	X
	SS7	4AH6-D				X

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	B	C	D
6	LO, GO	4DS9-15	X			
	LO, GO	4DS9-15L	X			
	RV, EA, EB, EC	4DS9-15		X	X	X
	RV, EA, EB, EC	4DS9-15L		X	X	X
7	LO, GO	4DS9-31	X			
	LO, GO	4DS9-31L	X			
	RV, EA, EB, EC	4DS9-31		X	X	X
	RV, EA, EB, EC	4DS9-31L		X	X	X
8	LO, GO	4DSO-63	X			
	LO, GO	4DSO-63L	X			
	RV, EA, EB, EC	4DSO-63		X	X	X
	RV, EA, EB, EC	4DSO-63L		X	X	X
9	LO, GO	4DS6-44	X			
	LO, GO	4DS6-44L	X			
	RV, EA, EB, EC	4DS6-44		X	X	X
	RV, EA, EB, EC	4DS6-44L		X	X	X
10	LO, GO	4DS6-27	X			
	LO, GO	4DS6-27L	X			
	RV, EA, EB, EC	4DS6-27		X	X	X
	RV, EA, EB, EC	4DS6-27L		X	X	X

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications

Descriptions of the transmission specifications available with each Feature Group as a function of the Interface Group selected by the customer, as set forth in (A) through (D) following. Descriptions of each of the these Standard Transmission Specifications and the two Data Transmission Parameters mentioned are set forth respectively in (E) through (G) and Section 15.1.3(A) and (B) following:

(A) Feature Group A

FGA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGA to the first point of switching.

(B) Feature Group B

FGB is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGB to the first point of switching.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(C) Feature Group C

FGC is provided with either Type B or Type C Transmission Specifications as follows:

- When routed to the end office either Type B or C is provided.
- When routed to an access tandem only Type B is provided.
- Type B or Type C is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1 when routed directly to an end office. Type B is provided with Interface Groups 2 through 10 whether routed directly to an end office or to an access tandem.

Type DB Data Transmission Parameters are provided with FGC for the transmission path between the customer designated premises and the end office when directly routed to the end office and between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(D) Feature Group D

FGD is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed to the end office either Type B or C is provided.
- When routed to an access tandem only Type A is provided.
- Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission specifications are provided with Interface Groups 2 through 10.

Type DB Data Transmission Parameters are provided with FGD for the transmission path between the customer designated premises and the end office when directly routed to the end office. Type DA Data Transmission Parameters are provided for the transmission path between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

(E) Type A Transmission Specifications

Type A Transmission Specifications is Provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is + or - 2.0 dB.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(E) Type A Transmission Specifications (Cont'd)

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

Route Miles	C-Message Noise
less than 50	32 dBrnCO
51 to 100	34 dBrnCO
100 to 200	37 dBrnCO
201 to 400	40 dBrnCO
401 to 1000	42 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBrnCO.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(E) Type A Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	21 dB	14 dB
POT to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11 dB

(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire ports of a four-wire point of termination shall be equal to or greater than:

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(F) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is + or - 2.5 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

	C-Message Noise#	
Route Miles	Type B1	Type B2
less than 50	32 dBmCO	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

For Feature Groups C and D only Type B2 will be provided. For Feature Groups A and B, Type B1 or B2 will be provided as set forth in Technical Reference TR-NPL-000334.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(F) Type B Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGC and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Feature Group, type of termination, and type of transmission path. They are greater than or equal to the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem		
- Terminated in 4-Wire trunk	21 dB	14 dB
- Terminated in 2-Wire trunk	16 dB	11 dB
POT to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem		
- For FGB access	8 dB	4 dB
- For FGC access (Effective 4-Wire transmission path at end office)	16 dB	11 dB
- For FGC access (Effective 2-Wire transmission path at end office)	13 db	6 db

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(F) Type B Transmission Specifications (Cont'd)

(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire Point of termination shall be equal to or greater than:

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

(G) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is + or - 3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(G) Type C Transmission Specifications (Cont'd)

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

	C-Message Noise#	
Route Miles	Type B1	Type B2
less than 50	32 dBmCO	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

For Feature Groups C and D only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference TR-NPL-000334.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(G) Type C Transmission Specifications (Cont'd)

(5) Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	13 dB	6 dB
POT to End Office - Direct	13 dB	6 dB
- Via Access Tandem (for FGB only)	8 dB	4 dB

15.1.3 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are Provided for the Feature Group arrangements. Type DB is provided with Feature Groups A, B and C and also with Feature Group D when Feature Group D is directly routed to the end office. Type DA is only Provided with Feature Group D and only when routed via an access tandem. Following are descriptions of each.

(A) Data Transmission Parameters Type DA

(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

less than 50 route miles	500 microseconds
equal to or greater than 50 route miles	900 microseconds

1004 to 2404 Hz

less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5 degrees peak-to- peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(B) Data Transmission Parameters Type DB

(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds

1004 to 2404 Hz

less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7 degrees peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

ACCESS SERVICE

16. Special Construction

This Section contains the regulations, liabilities, rates and charges applicable for special construction of Telephone Company facilities which are used to provide services offered in this and other Telephone Company tariffs.

When special construction of facilities is required, the provisions of this section apply in addition to all regulations, rates and charges set forth in other Telephone Company tariffs.

16.1 Ownership of Facilities

The Telephone Company retains ownership of all specially constructed facilities.

16.2 Interval to Provide Facilities

Based on available information and the type of service ordered, the Telephone Company will establish a completion date for the specially constructed facilities. The Telephone Company will make every reasonable effort to assure that the date is met. However, shortage of material, personnel or other factors may lengthen the installation interval. The Telephone Company does not guarantee that the facilities will be available on the scheduled date and assumes no liability if that date is missed. If the scheduled completion date cannot be met, the customer will be notified and a new completion date will be established.

16.3 Payments for Special Construction

16.3.1 Payment of Charges

All bills associated with special construction are due in accordance with the appropriate regulations in the service tariff under which service is being provided.

16.3.2 Start/End of Billing

Billing of recurring charges for specially constructed facilities starts on the day after the facilities are made available for use. Billing accrues through and includes the day that the specially constructed facilities are discontinued.

ACCESS SERVICE

16. Special Construction (Cont'd)

16.4 Liabilities and Charges for Special Construction

16.4.1 General

This section describes the various charges and liabilities that may apply when the Telephone Company provides special construction of facilities in accordance with an order for service. Written approval of all liabilities and charges must be provided to the Telephone Company prior to the start of construction.

16.4.2 Conditions Requiring Special Construction

Special construction is required when 1) suitable facilities are not available to meet an order for service, and 2) the Telephone Company constructs facilities, and 3) one or more of the following conditions exist:

- The Telephone Company has no other requirement for the facilities constructed.
- It is requested that service be furnished using a type of facility, or via a route, other than that which the Telephone Company would normally utilize in furnishing the requested service.
- More facilities are requested than would normally be required to satisfy an order.
- It is requested that construction be expedited, resulting in added cost to the Telephone Company.

16.4.3 Development of Liabilities and Charges

Special construction charges and liabilities will be developed based on estimated costs, except when actual costs are requested in writing prior to the start of special construction. In order to meet a scheduled service date when actual costs are requested, an initial special construction case will be made based on estimated costs. Such case will be revised when actual costs are available.

ACCESS SERVICE

16. Special Construction (Cont'd)

16.4 Liabilities and Charges for Special Construction (Cont'd)

16.4.4 Types of Liabilities and Charges

Depending on the specifics associated with each individual case, one or more of the following special construction charges and/or liabilities may be applicable:

(A) Nonrecurring Charge

A nonrecurring charge always applies and includes one or more of the following components:

(1) Quotation Charge

A nonrecurring charge for the preparation of a quotation applies whenever an estimate for special construction charges and liabilities is requested. In order to comply with Government regulations, a quotation charge will not apply when submitting unsolicited quotes or when submitting quotes in response to a general Request for Proposal or Invitation to Bid from agencies or branches of the Government.

(2) Expediting Charge

A nonrecurring charge may include an expediting charge when it is requested that special construction be completed on an expedited basis. The charge equals the difference in estimated costs between expedited and nonexpedited construction.

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16. Special Construction (Cont'd)

16.4 Liabilities and Charges for Special Construction (Cont'd)

16.4.4 Types of Liabilities and Charges (Cont'd)

(A) Nonrecurring Charge (Cont'd)

(3) Optional Payment

An optional payment charge may be included in the nonrecurring charge in association with a type of facility or route other than that which the Telephone Company would normally use in furnishing the requested service if lower recurring monthly charges are desired for the specially constructed facilities. This charge is equal to the excess installed cost or the total nonrecoverable cost, whichever is less. This election must be made in writing, before special construction starts. If this election is coupled with the actual cost option, the optional payment charge will reflect the actual cost of the specially constructed facilities.

(4) Replacement Charge

If any portion of specially constructed facilities for which an optional payment charge has been paid requires replacement involving capital investment, a replacement charge will apply. This charge will be in the same ratio to the total replacement cost as the initial optional payment charge was to the installed cost of the original specially constructed facilities. If any portion of the facilities subject to the replacement charge fails, service will not be restored until notification is provided in writing that replacement is required and such replacement is ordered.

(5) Rearrangement Charge

If the Telephone Company is requested to rearrange existing specially constructed facilities, a nonrecurring charge component equal to the cost of rearrangement will apply.

ACCESS SERVICE

16. Special Construction (Cont'd)

16.4 Liabilities and Charges for Special Construction (Cont'd)

16.4.4 Types of Liabilities and Charges (Cont'd)

(A) Nonrecurring Charge (Cont'd)

(6) Special Construction of Facilities for Use for less than One Month

When the Telephone Company is requested to construct facilities to provide service for less than one month, a nonrecurring charge only applies. In addition to the quotation preparation charge component, this nonrecurring charge recovers all elements of cost, including engineering, shipping of equipment, equipment installation, line-up, equipment leasing, space rental, equipment removal, and any other costs associated with the construction of the facilities.

ACCESS SERVICE

16. Special Construction (Cont'd)

16.4 Liabilities and Charges for Special Construction (Cont'd)

16.4.4 Types of Liabilities and Charges (Cont'd)

(B) Maximum Termination Liability and Termination Charge

A Maximum Termination Liability is equal to the nonrecoverable costs associated with specially constructed facilities and is the maximum amount which could be applied as a Termination Charge if all specially constructed facilities were discontinued before the Maximum Termination Liability expires.

The Maximum Termination Liability is executed in decreasing amounts at ten-year intervals over the average account life of the facilities. In the event that the average account life of the facilities is not an even multiple of ten, the last increment will reflect the appropriate number of years remaining.

Example Illustrating a 27-Year Average Account Life

Maximum Termination Liability	Effective Date	Expiration Date
$10,000.00	6/1/84	5/31/94
7,000.00	6/1/94	5/31/04
3,000.00	6/1/04	5/31/11

Prior to the expiration of each liability period, the customer has the option to (A) terminate the special construction case and pay the appropriate charges, or (B) extend the use of the specially constructed facilities for the new liability period.

The Telephone Company will notify the customer six months in advance of the expiration date of each ten-year liability period. The customer must provide the Telephone Company with written notification at least 30 days prior to the expiration of the liability period if termination is elected. Failure to do so will result in an automatic extension of the special construction case to the next liability period.

ACCESS SERVICE

16. Special Construction (Cont'd)

16.4 Liabilities and Charges for Special Construction (Cont'd)

16.4.4 Types of Liabilities and Charges (Cont'd)

(B) Maximum Termination Liability and Termination Charge (Cont'd)

A Termination Charge may apply when all services using specially constructed facilities are discontinued prior to the expiration of the liability period. The charge reflects the unamortized portion of the nonrecoverable costs at the time of termination, adjusted for net salvage and possible reuse. Administrative costs associated with the specific case of special construction and any cost for restoring a location to its original condition are also included.

(C) Annual Underutilization Liability and Underutilization Charge

Annual Underutilization Liability is a per unit amount which is based on the per unit cost of specially constructed facilities. The liability remains in effect until the expiration of the Maximum Termination Liability or until the special construction case is discontinued and all termination liabilities associated with the case are discharged. An underutilization charge may be applicable after the expiration of the minimum period, as set forth in the appropriate service tariff, under which service is being provided, depending on the quantity of specially constructed facilities in service.

No underutilization charges are computed or billed until one year after the minimum period expires. At that time an underutilization charge applies to the difference, if any, between the original number of specially constructed facilities and the number of specially constructed facilities in service at filed tariff rates. The underutilization charge applies from the date the minimum period expires and annually thereafter. For purposes of determining an underutilization charge, any facilities subject to minimum service period monthly charges are considered to be in service at filed tariff rates.

ACCESS SERVICE

16. Special Construction (Cont'd)

16.4 Liabilities and Charges for Special Construction (Cont'd)

16.4.4 Types of Liabilities and Charges (Cont'd)

(D) Recurring Monthly Charges

(1) Excess Capacity Charge

A recurring monthly excess capacity charge applies when more facilities are requested and subsequently specially constructed than are required to satisfy an order for service. The charge is based on the estimated cost difference between the facilities constructed and the facilities which would normally be required to meet the order for service. Charges apply until there are sufficient services to warrant the facilities which were originally constructed.

(2) Charge for Route or Type other than Normal

When special construction is requested using a route or type of facility other than that which the Telephone Company would normally use, a recurring monthly charge, in addition to the monthly rates for service, is applicable. The charge is equal to the difference between the recurring costs of the specially constructed facilities and the recurring cost of the facilities the Telephone Company would have normally used.

(a) When an Optional Payment Charge as set forth in 16.4.4(A) preceding has been elected, the recurring monthly charge will include specially constructed facility operating expenses only.

(b) If the actual cost option has been elected, the recurring charge will be adjusted to reflect the actual cost of the new construction when the costs have been determined. This adjusted recurring charge is applicable from the start of service.

ACCESS SERVICE

16. Special Construction (Cont'd)

16.4 Liabilities and Charges for Special Construction (Cont'd)

16.4.4 Types of Liabilities and Charges (Cont'd)

(E) Lease Charge

This charge applies when the Telephone Company leases equipment in order to meet service requirements. The amount of the charge is equal to the net added cost to the Telephone Company caused by the lease.

(F) Cancellation Charge

If a service order with which special construction is associated is canceled prior to the start of service, a cancellation charge will apply. The charge will include all nonrecoverable costs incurred by the Telephone Company in association with the special construction up to and including the time of cancellation.

16.5 Deferral of Start of Service

The Telephone Company may be requested to defer the start of service which will use specially constructed facilities subject to the provisions set forth in the service tariff under which service is being provided. Requests for special construction deferral must be in writing and are subject to the following regulations:

16.5.1 Construction Has Not Begun

If the Telephone Company has not incurred any installation costs before receiving a request for deferral, the quotation charge applies. The original quotation is subject to Telephone Company review at the time of reinstatement to determine if the original charge estimates are still valid.

An additional quotation charge will, therefore, apply. Any change in liabilities and charges requires concurrence in writing.

ACCESS SERVICE

16. Special Construction (Cont'd)

16.5 Deferral of Start of Service

16.5.2 Construction Has Begun

If the construction of facilities has begun before the Telephone Company receives a request for deferral, charges will vary as follows:

(A) All Services Are Deferred

When all services which will use specially constructed facilities are deferred, a charge based on the costs incurred by the Telephone Company during each month of the deferral will apply. Those costs include the recurring costs for that portion of the facilities already completed and any other costs associated with the deferral. The quotation charge and costs of any components of the nonrecurring charge which have been completed at the time of deferral will also apply.

(B) Some Services Are Deferred

When some services which will use the specially constructed facilities are deferred, the construction case will be completed and all special construction Charges will apply.

16.5.3 Construction Complete

If the construction of facilities has been completed before the Telephone Company receives a request for deferral, all special construction charges will apply.

ACCESS SERVICE

17. Rates and Charges

17.1 Service Order and Switched Access Installation Charges

		Rate	Section Reference
17.1.1	Local Transport - Installation Per Line or Trunk	$78.05	6.4.1(C)(1)
17.1.2	Trunk Group Conversion Charge		
	Windstream East Texas, LLC	$110.00	6.4.1(B)(3)
	Texas Windstream, Inc.	$110.00	6.4.1(B)(3)
	Windstream Communications Kerrville, L.P.	$100.00	6.4.1(B)(3)
17.1.3	Reserved		
17.1.4	Service Date Change Charge	$26.21	5.4.3(A)
17.1.5	Design Change Charge	$26.21	5.4.3(B)
17.1.6	Reserved		

17.2 Switched Access

17.2.1 Carrier Common Line Service (CCL)

	Rate	Section Reference	
Windstream East Texas, LLC			
CCL Premium Access Terminating	$.0000	3.8.5	
CCL Premium Access Originating			
Non-8YY Traffic	$.0100	3.8.5	**(C)**
8YY Traffic	$.0000 **(R)**		**(C)**
CCL Non Premium Access Terminating	$.0000	3.8.5	
CCL Non Premium Access Originating			
Non-8YY Traffic	$.0045	3.8.5	**(C)**
8YY Traffic	$.0000 **(R)**		**(C)**

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access (Cont'd)

17.2.1 Carrier Common Line Service (CCL) (Cont'd)

	Rate	Section Reference
Texas Windstream, Inc. (I)[1]		
CCL Premium Access Terminating	$.000000	3.8.5
CCL Premium Access Originating		
Non-8YY Traffic	$.010000	3.8.5
8YY Traffic	$.00000	
Texas Windstream, Inc. (II)[2]		
CCL Premium Access Terminating	$.000000	3.8.5
CCL Premium Access Originating		
Non-8YY Traffic	$.010000	3.8.5
8YY Traffic	$.00000	
Windstream Communications Kerrville, L.P.		
CCL Premium Access Terminating	$.000000	3.8.5
CCL Premium Access Originating		
Non-8YY Traffic	$.024278	3.8.5
8YY Traffic	$.00000	

[1] Includes all Texas Windstream, Inc. exchanges excluding those listed under Texas Windstream, Inc. (II) following.
[2] Includes the Bonita, Nocona, Ringgold and Spanish Fort exchanges.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access

17.2.2 Transport Service

Premium Access

	Rate	Section Reference
-Local Transport Termination, Per Access Minute		
Windstream East Texas, LLC	$0.0000	6.1.3(A)
Texas Windstream , Inc. (I)	$0.0000	6.1.3(A)
Texas Windstream , Inc. (II)	$0.0000	6.1.3(A)
- Local Transport Facility, Per Access Minute Per Mile		
Windstream East Texas, LLC	$0.0000	6.1.3(A)
Texas Windstream, Inc.	$0.0000	6.1.3(A)
- Carrier Identification Parameter (CIP)		
- Voice Grade	$3.44	6.10.4(B)
- DS1	$82.56	6.10.4(B)
- DS3	$2,311.68	6.10.4(B)

Non-Premium Access

- Local Transport Termination, Per Access Minute		
Windstream East Texas, LLC	$0.0000	6.1.3(A)
- Local Transport Facility, Per Access Minute Per Mile		
Windstream East Texas, LLC	$0.0000	6.1.3(A)
Network Blocking Per Blocked Call		
- Applies to FGD only	$0.080	6.8.6
800/888/877 Number Portability Access Service (NPAS)		
- Per Completed Query		
Windstream East Texas, LLC		
Basic	$0.0033	6.1.3(A)
Effective 7/1/2022 – 6/30/2023	$0.001750	
Effective on and after 7/1/2023	$0.000200	
Vertical Feature	$0.000000	6.1.3(A)
Texas Windstream, Inc.		
Basic	$0.004248	6.1.3(A)
Effective 7/1/2022 – 6/30/2023	$0.002224	
Effective on and after 7/1/2023	$0.000200	
Vertical Feature	$0.000000	6.1.3(A)
Windstream Communications Kerrville, L.P.		
Basic	$0.0030	6.1.3(A)
Effective 7/1/2022 – 6/30/2023	$0.001600	
Effective on and after 7/1/2023	$0.000200	
Vertical Feature	$0.000000	6.1.3(A)

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access

17.2.2 Transport Service (Cont'd)

Windstream Sugar Land	Rate
- Entrance Facility	
- Voice Grade Two-Wire, per Termination	$18.53
- Voice Grade Four-Wire, per Termination	$29.65
- High Capacity DS1, per Termination	$40.00
- High Capacity DS3, per Termination	$1,969.16
- Direct Trunked Transport	
- Direct Trunked Facility, per Mile	
- Voice Grade	$1.06
- High Capacity DS1	$5.00
- High Capacity DS3	$38.61
- Direct Trunked Termination, per Termination	
- Voice Grade	$11.81
- High Capacity DS1	$10.81
- High Capacity DS3	$609.50
- Multiplexing, per Arrangement	
- DS3 to DS1	$302.10
- DS1 to Voice	$149.70
- Tandem Switched Transport	
- Tandem Switched Facility	
Per Originating Access Minute Per Mile	
Non-8YY Traffic	$0.000600
8YY Traffic	*
Per Terminating Access Minute Per Mile	*
- Tandem Switched Termination	
Per Originating Access Minute Per Termination	
Non-8YY Traffic	$0.0015116
8YY Traffic	*
Per Terminating Access Minute Per Termination	*
- Tandem Switching	
Per Originating Access Minute Per Tandem	
on-8YY Traffic	$0.000900
8YY Traffic	*
Per Terminating Access Minute Per Tandem	*
- Tandem Switch Multiplexing	
Per Terminating Access Minute	*
- Tandem Direct Trunk Port	
- Voice Grade	$14.62
- DS1	$ 5.12

* Rates are billed as set forth in the Windstream Telephone System's FCC Tariff No. 6 found at: https://apps.fcc.gov/etfs/public/lecTariffs.action?idLec=154

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access

17.2.2 Transport Service (Cont'd)

Texas Windstream	Rate
- Entrance Facility	
- Voice Grade Two-Wire, per Termination	$17.71
- Voice Grade Four-Wire, per Termination	$28.34
- High Capacity DS1, per Termination	$106.83
- High Capacity DS3, per Termination	$1,882.06
- Direct Trunked Transport	
- Direct Trunked Facility, per Mile	
- Voice Grade	$0.79
- High Capacity DS1	$9.50
- High Capacity DS3	$36.90
- Direct Trunked Termination, per Termination	
- Voice Grade	$10.51
- High Capacity DS1	$10.33
- High Capacity DS3	$582.54
- Multiplexing, per Arrangement	
- DS3 to DS1	$302.10
- DS1 to Voice	$149.70
- Tandem Switched Transport	
- Tandem Switched Facility	
Per Originating Access Minute Per Mile	
Non-8YY Traffic	$0.000127
8YY Traffic	*
Per Terminating Access Minute Per Mile	*
- Tandem Switched Termination	
Per Originating Access Minute Per Termination	
Non-8YY Traffic	$0.0019905
8YY Traffic	*
Per Terminating Access Minute Per Termination	*
- Tandem Switching	
Per Originating Access Minute Per Tandem	
Non-8YY Traffic	$0.0002491
8YY Traffic	*
Per Terminating Access Minute Per Tandem	*
- Tandem Switch Multiplexing	
Per Terminating Access Minute	*
- Tandem Direct Trunk Port	
- Voice Grade	$14.62
- DS1	$ 5.12

* Rates are billed as set forth in the Windstream Telephone System's FCC Tariff No. 6 found at: https://apps.fcc.gov/etfs/public/lecTariffs.action?idLec=154

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access

17.2.2 Transport Service (Cont'd)

Windstream Communications Kerrville, L.P.	Rate
- Entrance Facility	
- Voice Grade Two-Wire, per Termination	$16.84
- Voice Grade Four-Wire, per Termination	$26.95
- High Capacity DS1, per Termination	$133.88
- High Capacity DS3, per Termination	$1,386.85
- Direct Trunked Transport	
- Direct Trunked Facility, per Mile	
- Voice Grade	$0.75
- High Capacity DS1	$8.00
- High Capacity DS3	$74.10
- Direct Trunked Termination, per Termination	
- Voice Grade	$9.99
- High Capacity DS1	$13.71
- High Capacity DS3	$612.43
- Multiplexing, per Arrangement	
- DS3 to DS1	$302.10
- DS1 to Voice	$149.70
- Tandem Switched Transport	
- Tandem Switched Facility	
Per Originating Access Minute Per Mile	
Non-8YY Traffic	$0.000150
8YY Traffic	*
Per Terminating Access Minute Per Mile	*
- Tandem Switched Termination	
Per Originating Access Minute Per Termination	
on-8YY Traffic	$0.0011029
8YY Traffic	*
Per Terminating Access Minute Per Termination	*
- Tandem Switching	
Per Originating Access Minute Per Tandem	
Non-8YY Traffic	$0.0020000
8YY Traffic	*
Per Terminating Access Minute Per Tandem	*
- Tandem Switch Multiplexing	
Per Terminating Access Minute	*
- Tandem Direct Trunk Port	
- Voice Grade	$14.62
- DS1	$ 5.12

* Rates are billed as set forth in the Windstream Telephone System's FCC Tariff No. 6 found at: https://apps.fcc.gov/etfs/public/lecTariffs.action?idLec=154

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.3 End Office

A. Local Switching

Premium	Rate	Section Reference
Windstream East Texas, LLC		
- Local Switching 1, per minute		
9-1-92 through 8-31-93	$.0084	6.1.3(B)(1)
9-1-93 through 8-31-94	$.0097	6.1.3(B)(1)
9-1-94 through 2-28-95	$.0113	6.1.3(B)(1)
- Local Switching 2, per Originating minute		
Non-8YY Traffic	$.0113	6.1.3(B)(1)
8YY Traffic	*	
- Local Switching 2, per Terminating minute	*	6.1.3(B)(1)
- Non-Premium Per Access Minute	$.0000	6.1.3(B)(1)
Texas Windstream, Inc. (I)		
- Local Switching 1, per Originating minute		
Non-8YY Traffic	$.007400	6.1.3(B)(1)
8YY Traffic	*	
- Local Switching 1, per Terminating minute	*	6.1.3(B)(1)
- Local Switching 2, per Originating minute		
Non-8YY Traffic	$.007400	6.1.3(B)(1)
8YY Traffic	*	
- Local Switching 2, per Terminating minute	*	6.1.3(B)(1)
Texas Windstream, Inc. (II)		
- Local Switching 1, per Originating minute		
Non-8YY Traffic	$.015600	6.1.3(B)(1)
8YY Traffic	*	
- Local Switching 1, per Terminating minute	*	6.1.3(B)(1)
- Local Switching 2, per Originating minute		
Non-8YY Traffic	$.015600	6.1.3(B)(1)
8YY Traffic	*	
- Local Switching 2, per Terminating minute	*	6.1.3(B)(1)
Windstream Communications Kerrville, L.P.		
- Local Switching 1, per Originating minute		
Non-8YY Traffic	$.015600	6.1.3(B)(1)
8YY Traffic	*	
- Local Switching 1, per Terminating minute	*	6.1.3(B)(1)
- Local Switching 2, per Originating minute		
Non-8YY Traffic	$.015600	6.1.3(B)(1)
8YY Traffic	*	
- Local Switching 2, per Terminating minute	*	6.1.3(B)(1)

B. Dedicated Trunk Port

DS0, Per Port	*
DS1, Per Port	*

* Rates are billed as set forth in the Windstream Telephone System's FCC Tariff No. 6 found at: https://apps.fcc.gov/etfs/public/lecTariffs.action?idLec=154

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.4 Assumed Minutes of Use

Per Month	Assumed Minutes Per Month	Section Reference
A. Feature Group A, Two Way Calling (1510 Originating, 2685 Terminating)	4195	6.5.4
B. Feature Group A, Originating Only	1510	6.5.4
C. Feature Group A, Terminating Only	2685	6.5.4
D. Feature Group B, Two Way Calling (3132 Originating, 5568 Terminating)	8700	6.6.4
E. Feature Group B, Originating Only	3132	6.6.4
F. Feature Group B, Terminating Only	5568	6.6.4

Information found on this page previously found on Page 3.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service

17.3.1 Access Connections

Each:	Monthly Rates
2-Wire (for use with NB1-5, VG1-3, 5-10,and AP1-4)	
- Windstream East Texas, LLC	$ 3.08
- Texas Windstream, Inc.	3.67
- Windstream Communications Kerrville, L.P.	3.67
4-Wire (for use with NB4-5, VG1-3, 5-10, and DA1-4 with DU facility interface)	
- Windstream East Texas, LLC	6.70
- Texas Windstream, Inc.	7.98
- Windstream Communications Kerrville, L.P.	7.98
Group (for use with WA1 & WA1T two are required for WA1T)	ICB rates and charges apply.
Supergroup (for use with WA2 for WA1T)	ICB rates and charges apply.
19.2 kbps (for use with WD1)	ICB rates and charges apply.
50 kbps (for use with WD2)	ICB rates and charges apply.
230.4 kbps (for use with WD3)	ICB rates and charges apply.
56 kbps (for use with WD4)	ICB rates and charges apply.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service

17.3.1 Access Connections (Cont'd)

Each:	Monthly Rates
DS1 - 1.544 Mbps (for use with HC1)	
- Windstream East Texas, LLC	$ 85.97
- Texas Windstream, Inc.	102.35
- Windstream Communications Kerrville, L.P.	102.35
DS1C - 3.152 Mbps (for use with HC1C)	ICB rates and charges apply.
DS2 - 6.312 Mbps (for use with HC2)	ICB rates and charges apply.
DS3 - 44.736 Mbps (for use with HC3)	ICB rates and charges apply.
DS4 - 274.176 Mbps (for use with HC4)	ICB rates and charges apply.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.2 Channel Mileage

Each:	Mileage Band	Monthly Rates Fixed Rate		Rate per Mile
2-Wire - Metallic (for use with NB1)	All	None	+	$ 4.87
2-Wire - Metallic/Other Means (for use with NB2)	All	None	+	$ 4.87
75 Baud (for use with NB4)	0-4	$ 8.56	+	4.96
	over 4-8	$18.47	+	2.48
	over 8-16	24.92	+	1.67
	over 16-25	24.92	+	1.67
	over 25-50	39.20	+	1.10
	over 50-100	54.74	+	.79
	over 100	79.10	+	.55
150 Baud (for use with NB5)	0-4	6.56	+	3.24
	over 4-8	7.33	+	3.05
	over 8-16	17.35	+	1.80
	over 16-25	17.35	+	1.80
	over 25-50	24.91	+	1.50
	over 50-100	48.43	+	1.02
	over 100	65.23	+	.86

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.2 Channel Mileage

Each:	Mileage Band	Monthly Rates Fixed Rate		Rate per Mile
2-Wire/4-Wire Voice				
(for use with VG1-3, 5-10 {1})	0-4	$ 3.71	+	$ 7.01
	over 4-8	14.31	+	4.37
	over 8-16	31.82	+	2.18
	over 16-25	40.15	+	1.66
	over 25-50	61.01	+	.83
	over 50- 100	72.68	+	.59
	over 100	102.29	+	.30
3.5 kHz Audio (for use with AP1)	0-4	$ 6.86	+	$ 3.12
	over 4-8	9.25	+	2.52
	over 8-16	9.25	+	2.52
	over 16-25	15.83	+	2.11
	over 25-50	15.83	+	2.11
	over 50- 100	19.61	+	2.03
	over 100	41.45	+	1.81
5 kHz Audio (for use with AP2)	0-4	$ 7.32	+	$ 3.58
	over 4-8	7.32	+	3.58
	over 8-16	12.63	+	2.91
	over 16-25	12.63	+	2.91
	over 25-50	16.62	+	2.76
	over 50- 100	27.12	+	2.55
	over 100	27.12	+	2.55
8 kHz Audio (for use with AP3)	0-4	$ 9.09	+	$ 5.62
	over 4-8	9.09	+	5.62
	over 8-16	18.77	+	4.41
	over 16-25	23.87	+	4.09
	over 25-50	23.87	+	4.09
	over 50- 100	34.37	+	3.88
	over 100	49.49	+	3.73

{1} Also used to provide NB4 and NB5 on 43 Carrier, using 43 CXR to NB4 and NB5 multiplexing

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.2 Channel Mileage (Cont'd)

Each:	Mileage Band	Monthly Rates Fixed Rate		Rate per Mile
15 kHZ Audio (for use with AP4 and AP8)	0-4	$ 18.96	+	$ 7.84
	over 4-8	18.96	+	7.84
	over 8-16	18.96	+	7.84
	over 16-25	32.42	+	7.00
	over 25-50	35.34	+	6.88
	over 50- 100	47.10	+	6.64
	over 100	47.10	+	6.64
Group (for use with WA1 & WA1T. Two are required for WA1T)	ALL	ICB rates and charges apply.		ICB rates and charges apply.
Supergroup (for use with WA2)	ALL	ICB rates and charges apply.		ICB rates and charges apply.
19.2 kbps (for use with WD1)	ALL	ICB rates and charges apply.		ICB rates and charges apply.
50.0 kbps (for use with WD2)	ALL	ICB rates and charges apply.		ICB rates and charges apply.
230.4 kbps (for use with WD3)	ALL	ICB rates and charges apply.		ICB rates and charges apply.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.2 Channel Mileage (Cont'd)

Each:	Mileage Band	Monthly Rates Fixed Rate		Rate per Mile
56.0 kbps (for use with WD4)	ALL	ICB rates and charges apply.		ICB rates and charges apply.
Digital Data 1 (for use with DA1)	0-4	$ 37.84	+	$ 1.03
	over 4-8	37.84	+	1.03
	over 8-16	41.34	+	.60
	over 16-25	41.34	+	.60
	over 25-50	45.75	+	.42
	over 50- 100	45.75	+	.42
	over 100	45.75	+	.38
Digital Data 2 (for use with DA2)	0-4	$ 32.88	+	$ 1.23
	over 4-8	32.88	+	1.23
	over 8-16	37.51	+	.65
	over 16-25	37.51	+	.65
	over 25-50	37.72	+	.64
	over 50- 100	43.60	+	.52
	over 100	43.60	+	.52
Digital Data 3 (for use with DA3)	0-4	$ 39.66	+	$ 1.15
	over 4-8	39.66	+	1.15
	over 8-16	43.49	+	.67
	over 16-25	45.77	+	.53
	over 25-50	45.77	+	.53
	over 50- 100	50.81	+	.43
	over 100	50.81	+	.43

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.2 Channel Mileage (Cont'd)

Each:	Mileage Band	Monthly Rates Fixed Rate		Rate per Mile
Digital Data 4 (for use with DA4)				
- Windstream East Texas, LLC and Texas Windstream, Inc.	0-4	$ 63.07	+	$ 7.72
	over 4-8	78.49	+	3.86
	over 8-16	93.95	+	1.93
	over 16-25	109.40	+	.97
	over 25-50	118.64	+	.60
	over 50- 100	131.24	+	.34
	over 100	148.04	+	.18
- Windstream Communications Kerrville, L.P.	0-4	$ 75.08	+	$ 9.19
	over 4-8	93.44	+	4.60
	over 8-16	111.84	+	2.30
	over 16-25	130.24	+	1.15
	over 25-50	141.24	+	.71
	over 50- 100	156.24	+	.41
	over 100	176.24	+	.21
DS1-1.544 Mbps {1} (for use with HC1)				
- Windstream East Texas, LLC	ALL	$ 31.94	+	$ 12.68
- Texas Windstream, Inc.	ALL	38.02	+	15.09
- Windstream Communications Kerrville, L.P.	ALL	38.02	+	15.09
DS1C-3.152 Mbps {1} (for use with HC1C)	ALL	ICB rates and charges apply.		ICB rates and charges apply.
DS2-6.312 Mbps {1} (for use with HC2)	ALL	ICB rates and charges apply.		ICB rates and charges apply.
DS3-44.736 Mbps {1} (for use with HC3)	ALL	$500.00		$101.00
DS4-274.176 Mbps {1} (for use with HC4)	ALL	ICB rates and charges apply.		ICB rates and charges apply.

{1} Additional applications are obtainable through the use of suitable multiplexing at the Hub.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions

(A) Facility Interface Combinations

(1) Narrowband Services

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
DC (for use with NB1 & 2)	DC	None	$ 137.42	$ 65.71
TT (for use with NB4)	TT	$ 2.21	267.50	155.29
DB-10 (for use with NB4)	TT	.30	244.26	139.85
DB-43 (for use with NB4) {1}	TT	6.34	228.84	133.31
DB-10 (for use with NB5)	IA	.30	244.26	139.85
DB-43 (for use with NB5) {1}	IA	6.34	228.84	133.31
AH (for use with NB2) {2}	DC	8.64	189.04	100.79
AH (for use with NB4) {2}	TT	10.68	219.03	130.57
AH (for use with NB5) {2}	IA	8.64	219.03	130.57

{1} Requires Voice to Telegraph multiplexer.
{2} Requires intermediate multiplexing.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
DS {1} (for use with NB2)	DC	$ 4.24	$ 184.83	$ 97.01
DS {1} (for use with NB4)	TT	$ 6.28	$ 228.84	$ 133.31
DS {1} (for use with NB5)	TT	$ 4.24	$ 228.84	$ 133.31

{1} Requires intermediate multiplexing.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(1) Narrowband Services (Cont'd)

End User	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
TT (for use with NB6)	TT	$ 2.21	$ 267.50	$155.29
IA (for use with NB7	IA	$ 6.34	$ 228.84	$ 133.31

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
AB (for use with VG2)	AC	$ 14.93	$ 76.31	$ 52.37
AB (for use with VG2)	SF	18.11	123.39	76.03
AH {1} (for use with VG2)	AC	16.21	57.67	32.95
AH {1} (for use with VG5, 6 & 10)	DA	5.71	61.84	32.68
AH {1} (for use with VG5)	DE	16.56	31.40	14.62
AH {1} (for use with VG9)	DX	13.99	69.69	40.54
AH {1} (for use with VG3, 7 & 8)	DY	14.72	65.56	36.41
AH {1} (for use with VG3, 7 , 8, & 9)	EA	18.82	69.69	40.54
AH {1} (for use with VG3, 7, 8, & 9)	EB	18.82	69.69	40.54
AH {1} (for use with VG1)	GO	21.49	53.18	30.14

{1} Requires intermediate Group to Voice Multiplexer.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
AH (for use with VG1,3&7)	GS	$ 21.92	$ 53.18	$ 30.14
AH (for use with VG2&7)	LA	17.43	66.98	39.61
AH (for use with VG2&7)	LB	17.43	57.14	32.42
AH {1}(for use with VG2&7)	LC	17.43	57.67	32.95
AH {1} (for use with VG1, 2&7)	LO	17.43	57.67	32.95
AH {1} (for use with VG2)	LR	17.43	51.53	28.49
AH {1} (for use with VG1,2, 3,7 & 8)	LS	16.21	51.53	28.49
AH {1} (for use with VG1,2, 5,6,7,& 9)	NO	11.43	46.85	23.81
AH {1} (for use with VG3& 7)	RV	12.96	57.67	32.95
AH {1} (for use with VG2,3, 7,8,&9)	SF	19.40	69.69	40.54

{1} Requires intermediate Group to Voice Multiplexer.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
DA (for use with VG10)				
- Windstream East Texas, LLC	DA	$ 4.23	$ 133.48	$ 88.32
- Texas Windstream, Inc.	DA	5.03	158.90	99.19
- Windstream Communications Kerrville, LP	DA	5.03	158.90	99.19
DB (for use with VG6 & 10)				
- Windstream East Texas, LLC	DA	$ 4.23	$ 133.48	$ 88.32
- Texas Windstream, Inc.	DA	5.03	158.90	99.19
- Windstream Communications Kerrville, LP	DA	5.03	158.90	99.19
DB (for use with VG6)	NO	5.72	97.30	59.56
DD (for use with VG5)	DE	11.73	95.52	58.94
DS (for use with VG2) {1}	AC	11.81	54.77	30.51
DS (for use with VG5, 6 & 10) {1}	DA	3.99	63.34	34.64
DS (for use with VG5) {1}	DE	11.73	30.04	13.72
DS (for use with VG9) {1}	DX	9.58	58.46	29.75
DS (for use with VG3, 7, 8, & 9) {1}	DY	10.32	58.46	29.75
DS (for use with VG3, 7, 8, & 9) {1}	EA	14.42	59.31	30.60

{1} Requires intermediate DS1 to Voice Multiplexer.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
DS (for use with VG3, 7, 8 & 9) {1}	EB	$ 14.42	$ 59.31	$ 30.60
DS (for use with VG1) {1}	GO	17.09	42.71	20.13
DS (for use with VG1, 3, & 7) {1}	GS	17.51	42.71	20.13
DS (for use with VG2, & 7) {1}	LA	13.03	62.45	35.52
DS (for use with VG2 & 7) {1}	LB	13.03	54.99	30.72
DS (for use with VG2 & 7) {1}	LC	13.03	54.77	30.51
DS (for use with VG1, 2 & 7) {1}	LO	13.03	54.77	30.51
DS (for use with VG2) {1}	LR	11.60	42.71	20.13
DS (for use with VG1, 2, 3, 7 & 8) {1}	LS	13.24	42.71	20.13
DS (for use with VG1, 2, 5, 6, 7 & 9) {1}	NO	7.03	46.91	24.33

{1} Requires intermediate DS1 to Voice Multiplexer.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
DS (for use with VG3, & 7) {1}	RV	$ 8.56	$ 54.77	$ 30.51
DS (for use with VG2, 3, 7, 8, & 9) {1}	SF	14.99	59.31	30.60
DS (for use with VG9) {1}	DX	10.98	112.53	66.79
DS (for use with VG3, 7, & 9) {1}	DY	11.71	112.53	66.79
DS (for use with VG3, 7, 8, & 9) {1}	EA	15.52	122.98	76.03
DS (for use with VG3, 7, 8 & 9) {1}	EB	15.52	122.98	76.03
DS (for use with VG2 & 7) {1}	LA	14.14	128.87	83.30
DS (for use with VG2 & 7) {1}	LB	14.14	115.98	74.05
DS (for use with VG2, & 7) {1}	LC	14.14	111.29	71.11
DS (for use with VG2 &7) {1}	NO	7.03	46.91	24.33

{1} Requires intermediate DS1 to Voice Multiplexer.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
DX (for use with VG2, & 7) {1}	LO	$ 14.14	$ 111.29	$ 71.11
DX (for use with VG2, 3, 7, & 9) {1}	LS	15.46	110.01	68.85
DX (for use with VG3 & 7) {1}	RV	9.66	111.29	71.11
DX (for use with VG2, 3, 7, 8, & 9) {1}	SF	16.09	122.98	76.03
EA (for use with VG2) {1}	AC	17.02	111.29	71.11
EA (for use with VG9) {1}	DX	14.79	135.76	82.23
EA (for use with VG3, 7 & 8) {1}	DY	15.52	112.53	66.79
EA (for use with VG3, 7, 8, 9) {1}	EA	18.90	136.62	83.08

{1} Requires intermediate DS1 to Voice Multiplexer.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
EA (for use with VG3, 7, 8, & 9) {1}	EB	$ 18.90	$ 136.62	$ 83.08
EA (for use with VG2, & 7) {1}	LA	18.24	128.87	83.30
EA (for use with VG2 & 7) {1}	LB	18.24	115.98	74.05
EA (for use with VG2 & 7) {1}	LC	18.24	111.29	71.11
EA (for use with VG2 & 7) {1}	LO	18.24	111.29	71.11
EA (for use with VG2, 3, 7, & 8) {1}	LS	19.57	110.01	68.85
EA (for use with VG3 & 7) {1}	RV	18.58	111.29	71.11
EA (for use with VG3, 7, 8 & 9) {1}	SF	20.20	122.98	76.03
EA (for use with VG2) {1}	AC	17.02	111.29	71.11
EA (for use with VG9) {1}	DX	14.80	135.76	82.23

{1} Requires intermediate DS1 to Voice Multiplexer.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
EB (for use with VG3, 7, & 8) {1}	DY	$ 15.52	$ 112.53	$ 66.79
EB (for use with VG3, 7, 8 & 9) {1}	EA	19.63	136.62	83.08
EB (for use with VG3, 7, 8 & 9) {1}	EB	19.63	136.62	83.08
EB (for use with VG2 & 7) {1}	LA	18.24	128.87	83.30
EB (for use with VG2 & 7) {1}	LB	18.24	115.98	74.05
EB (for use with VG2, & 7) {1}	LC	18.24	111.29	71.11
EB (for use with VG7) {1}	LO	18.24	111.29	71.11
EB (for use with VG2, 3, 7, & 8) {1}	LS	19.57	110.01	68.85
EB (for use with VG3 & 7) {1}	RV	13.77	111.29	71.11

{1} Requires intermediate DS1 to Voice Multiplier

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
EB (for use with VG3, 7, 8, &9) {1}	SF	$ 20.20	$ 122.98	$ 76.03
EC (for use with VG3, 7 & 8) {1}	DY	15.52	112.53	66.79
EC (for use with VG3, 7 & 8) {1}	EA	19.63	136.62	83.08
EC (for use with VG3, 7 & 8) {1}	EB	19.63	136.62	83.08
EC (for use with VG3, 7 & 8) {1}	SF	20.20	122.98	76.03
EX (for use with G3, & 7) {1}	GS	17.59	110.01	69.07
EX (for use with VG2 &7) {1}	LA	13.10	128.87	83.30
EX (for use with VG2 & 7) {1}	LB	13.10	115.98	74.05
EX (for use with VG2 & 7) {1}	LC	13.10	111.29	71.11
EX (for use with VG1, 2 & 7)	LO	13.10	111.29	71.11

{1} Requires intermediate DS1 to Voice Multiplier

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
EX (for use with VG2) {1}	LR	$11.68	$111.29	$71.11
EX (for use with VG1,2,3 &7) {1}	LS	14.44	110.01	68.85
EX (for use with VG7) {1}	SF	15.07	122.98	76.03
GO (for use with VG1, 3&7) {1}	GS	11.68	81.04	51.43
GO (for use with VG3 & 7) {1}	GS	23.60	122.98	76.03
GS (for use with VG1) {1}	GO	25.69	81.04	51.43
LO (for use with VG1,2,3,7 &8) {1}	LS	18.92	80.74	51.16
LO (for use with VG2,3, &7) {1}	SF	19.55	122.98	76.03
LR (for use with VG 2)	LR	14.72	80.98	48.58
LR (for use with VG 2)	SF	18.10	122.98	76.03
LS (for use with VG 2&7)	LA	17.58	119.50	61.03

{1} Requires intermediate DS1 to Voice Multiplier

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
LS (for use with VG2 & 7) {1}	LB	$ 17.58	$ 116.50	$ 61.44
LS (for use with VG2 & 7) {1}	LC	17.58	106.22	50.21
LS (for use with VG1,2, &7){1}	LO	17.58	106.22	50.21
LS (for use with VG2 & 3){1}	SF	19.55	122.98	76.03
NO (for use with VG6 & 10){1}	DA	5.72	96.89	59.56
NO (for use with VG1, 2, 5, 6, 7 & 9){1}	NO	5.59	89.91	56.19
RV (for use with VG3 & 7) {1}	RV	8.64	81.04	51.43
RV (for use with VG3 & 7) {1}	SF	15.07	122.98	76.03
SF (for use with VG2) {1}	AC	17.62	111.29	71.11
SF (for use with VG9)	DX	15.41	122.98	76.03

{1} Requires intermediate DS1 to Voice Multiplier

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
SF (for use with VG3, 7, & 8) {1}	DY	$ 16.14	$ 112.53	$ 66.79
SF (for use with VG3, 7, 8 & 9) {1}	EA	20.24	122.98	76.03
SF (for use with VG3, 7, 8 & 9) {1}	EB	20.24	122.98	76.03
SF (for use with VG1, 3 & 7) {1}	GS	23.34	110.77	69.07
SF (for use with VG2 & 7) {1}	LA	18.85	128.87	83.30
SF (for use with VG2 & 7) {1}	LB	18.85	115.98	74.05
SF (for use with VG2 & 7) {1}	LC	18.85	111.29	71.11
SF (for use with VG1, 2 & 7) {1}	LO	18.85	111.29	71.11
SF (for use with VG2) {1}	LR	17.42	110.01	68.85

{1} Requires intermediate DS1 to Voice Multiplier

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(2) Voice Grade Services (Cont'd)

IC	End User	Monthly Rates per Termination	Nonrecurring Charges Per Service: First Service	Nonrecurring Charges Per Service: Additional Service
SF (for use with VG1, 2, 3, 7 & 8) {1}				
- Windstream East Texas, LLC	LS	$ 20.19	$ 110.01	$ 68.85
- Texas Windstream, Inc.	LS	24.03	130.97	81.96
- Windstream Communications Kerrville, LP	LS	24.03	130.97	81.96
SF (for use with VG3 & 7) {1}	RV	14.38	111.29	71.11
SF (for use with VG7, 8 & 9) {1}	SF	20.82	116.47	70.31

{1} Requires intermediate DS1 to Voice Multiplier

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(3) Program Audio Services

IC	End User	Monthly Rates per Service Termination	Nonrecurring Charges Per Service Termination: First Service	Nonrecurring Charges Per Service Termination: Additional Service
PG3 (for use with AP1) {1}	PG3	$ 3.07	$ 949.00	$ 682.84
DS (for use with AP1) {1}	PG3	3.07	820.23	719.46
AH (for use with AP1) {2}	PG3	3.07	830.90	729.24
PG5 (for use with AP2)	PG5	15.81	949.00	682.84
DS1 (for use with AP2) {1}	PG5	15.81	820.23	719.46
AH (for use with AP2) {2}	PG5	15.81	830.90	729.24
PG8 (for use with AP3)	PG8	15.14	949.00	682.84
DS (for use with AP3) {1}	PG8	15.14	820.23	719.46

{1} Requires intermediate DS1 to Voice Multiplexer. (One voice channel for AP1, two voice channels for AP2, three voice channels for AP3 and six voice channels for AP4).
{2} Requires intermediate Group to Voice Multiplexer.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(3) Program Audio Services (Cont'd)

IC	End User	Monthly Rates per Service Termination	Nonrecurring Charges Per Service Termination: First Service	Nonrecurring Charges Per Service Termination: Additional Service
AH (for use with AP3) {2}	PG8	$ 15.14	$ 830.90	$ 729.24
PG1 (for use with AP4)	PG1	75.34	949.00	682.84
DS (for use with AP4) {1}	PG1	75.34	820.23	719.46

{1} Requires intermediate DS1 to Voice Multiplexer. (Six voice channels for AP4).
{2} Requires intermediate Group to Voice Multiplexer

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(3) Program Audio Services (Cont'd)

IC	End User	Monthly Rates per Service Termination	Nonrecurring Charges Per Service Termination: First Service	Nonrecurring Charges Per Service Termination: Additional Service
PG (for use with AP5, 6, 7, 8, 9, 10 & 11)	PG	$ 3.07	$ 949.00	$ 682.84

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(4) Wideband Analog Services

IC	End User	Monthly Rates per Service Termination	Nonrecurring Charges Per Service Termination: First Service	Nonrecurring Charges Per Service Termination: Additional Service
AH-D (for use with WA1)	AH-B	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
AH-C (for use with WA1)	AH-B	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
AH-B (for use with WA1)	AH-B	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
AH-C (for use with WA2)	AH-C	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(4) Wideband Analog Services (Cont'd)

IC	End User	Monthly Rates per Service Termination	Nonrecurring Charges Per Service Termination: First Service	Nonrecurring Charges Per Service Termination: Additional Service
AH-D (for use with WA2)	AH-C	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(5) Wideband Digital Services

IC	End User	Monthly Rates per Service Termination	Nonrecurring Charges Per Service Termination: First Service	Nonrecurring Charges Per Service Termination: Additional Service
WD-19S (for use with WD1)	WC-19	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
WB-18S (for use with WD1)	WC-18	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
WB-19A (for use with WD1)	WC-19	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
WB-50S (for use with WD2)	WC-50	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
WB-40S (for use with WD2)	WC-40	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(5) Wideband Digital Services (Cont'd)

IC	End User	Monthly Rates per Service Termination	Nonrecurring Charges Per Service Termination: First Service	Nonrecurring Charges Per Service Termination: Additional Service
WB-50A (for use with WD2)	WC-50	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
WB-23S (for use with WD3)	WC-23S	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
WB-23A (for use with WD3)	WC-23	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
WB-64 (for use with WD4)	DU-56	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
DO (for use with WD4)	DU-56	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(6) Digital Data Access Services

IC	End User	Monthly Rates per Service Termination	Nonrecurring Charges Per Service Termination: First Service	Nonrecurring Charges Per Service Termination: Additional Service
DU-24 (for use with DA1)	DU-24	None	$ 1014.33	$ 738.30
DS (for use with DA1) {1}	DU-24	None	862.28	756.05
DU-48 (for use with DA2)	DU-48	None	1014.76	738.69
DS (for use with DA2) {1}	DU-48	None	862.53	756.28
DU-96 (for use with DA3)	DU-96	None	1015.64	739.48
DS (for use with DA3) {1}	DU-96	None	862.96	756.66
DU-56 (for use with DA4)				
- Windstream East Texas, LLC	DU-56	$ 9.84	1042.45	912.65
- Texas Windstream, Inc.	DU-56	11.71	1241.01	1086.49
- Windstream Communications Kerrville, LP	DU-56	11.71	1241.01	1086.49
DS (for use with DA4) {1}	DU-56	$ 17.14	884.87	778.07

{1} Digital Data Carrier Multiplexing Equipment is Required.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(7) High Capacity Services

IC	End User	Monthly Rates per Service Termination	Nonrecurring Charges Per Service Termination: First Service	Nonrecurring Charges Per Service Termination: Additional Service
DS-15 (for use with HC1)				
- Windstream East Texas, LLC	DU	$ 445.76	$ 251.10	$ 136.08
- Texas Windstream, Inc.	DU	530.67	298.93	162.00
- Windstream Communications Kerrville, LP	DU	530.67	298.93	162.00
DS-31 (for use with HC1C) {1}				
- Windstream East Texas, LLC	DS-31	$ 446.90	$ 241.86	$ 136.08
- Texas Windstream, Inc.	DS-31	532.02	287.93	162.00
- Windstream Communications Kerrville, LP	DS-31	532.02	287.93	162.00
DS-31 (for use with HC1C)	DS-15	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
DS-63 (for use with HC2) {1}	DS-63	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
DS-63(for use with HC2)	DS-15	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply

{1} Available only from an IC terminal location to another IC terminal location.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(A) Facility Interface Combinations (Cont'd)

(7) High Capacity Services (Cont'd)

IC	End User	Monthly Rates per Service Termination	Nonrecurring Charges Per Service Termination: First Service	Nonrecurring Charges Per Service Termination: Additional Service
DS-44 (for use with HC3) {1}	DS-44	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
DS-44 (for use with HC3)	DS-15	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
DS-27 (for use with HC4)	DS-27	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply
DS-27 (for use with HC4)	DS-15	ICB rates and charges apply	ICB rates and charges apply	ICB rates and charges apply

{1} Available only from an IC terminal location to another IC terminal location.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(B) Voice Grade Performance

IC	Monthly Rates {1}	Nonrecurring Charges: First Service {1}	Nonrecurring Charges: Additional Service {1}
Performance			
VG1	$ 4.80	$ 298.29	$ 157.26
VG2	4.80	298.29	157.26
VG3	4.80	298.29	157.26
VG5	4.80	298.29	157.26
VG6	4.80	303.34	157.26
VG7	4.80	303.34	157.26
VG8	4.80	306.51	157.26
VG9	4.80	306.51	157.26
VG10	4.80	298.59	157.26

{1} The monthly rates and nonrecurring charges apply on a per two-point service or each section (i.e., mid link or end link) of a multipoint service basis.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(C) Hub Functions

(1) Multiplexing

	Monthly Rates	Non-Recurring Charges
DS4 to DS1: An arrangement that provides a 274.176 Mbps capacity to multiplex, on a digital time division basis, 28 DS1 channels. (available with HC4) - Per arrangement	ICB rates and charges apply	ICB rates and charges apply
DS3 to DS1: An arrangement that provides a 44.736 Mbps capacity to multiplex, on a digital time division basis, 28 DS1 channels. (available with HC3) - Per arrangement	ICB rates and charges apply	ICB rates and charges apply
DS2 to DS1: An arrangement that provides a 6.312 Mbps capacity to multiplex, on a digital time division basis, four DS1 channels. (available with HC2) - Per arrangement	ICB rates and charges apply	ICB rates and charges apply

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(C) Hub Functions (Cont'd)

(1) Multiplexing (Cont'd)

	Monthly Rates	Non-Recurring Charges
DS1C to DS1: An arrangement that provides a 3.152 Mbps capacity to multiplex, on a digital time division basis, two DS1 channels. (available with HC1C) - Per arrangement	ICB rates and charges apply	ICB rates and charges apply
Supergroup to Group: An arrangement that provides a Supergroup capacity (60) channels to multiplex, on a frequency division basis, five Groups (12 channels each). (available with WA2) - Per arrangement	ICB rates and charges apply	ICB rates and charges apply
Group to DS1: An arrangement that provides two group capabilities (i.e., WA1T) to multiplex to a DS1 level. (arrangement with WA1T) - Per arrangement	ICB rates and charges apply	ICB rates and charges apply

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(C) Hub Functions (Cont'd)

(1) Multiplexing (Cont'd)

	Monthly Rates	Non-Recurring Charges
DS1 to Voice or Digital Data: An arrangement that provides a 1.544 Mbps capacity to multiplex, on a digital time division basis, 24 Voice or Digital Data {1} grade channels. (available with HC1)		
- Per arrangement	$ 86.72	$ 127.41
Group to Voice: An arrangement that provides a Group capacity to multiplex, on a frequency division basis, 12 Voice grade channels. (available with WA1)	ICB rates and charges apply	ICB rates and charges apply
- Per arrangement		
Voice to Narrowband (43 Type Carrier): An arrangement that provides a voice grade capacity to multiplex on a frequency division basis, NB4 and NB5 channels. (available with VG6)		
- Per arrangement	209.52	245.67

{1} Digital Data channels are only available from the serving wire center serving the Telephone Company designated Digital Hub. Digital Data on DS1 is used only as a component of DA1-4.17.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(C) Hub Functions (Cont'd)

(1) Multiplexing (Cont'd)

	Monthly Rates	Nonrecurring Charge	
		Initial	Subsequent
Digital Data Multiplexing: (Required with digital Data Access service with DS facility interface at IC terminal location).			
Carrier Multiplexing Unit: An arrangement that provides a 1.5444 Mbps capacity to multiplex on a digital time division basis, 23 64 kbps channels.			
- Per Unit	$ 126.80	$ 117.99	None
Carrier Multiplexing Plug-Ins			
- Per 64 kbps channel equipped {1}	1.31	44.60	$113.57
Carrier Sub-Multiplexing Unit: An arrangement that provides a 64 kbps capacity to multiplex on a digital time division basis, subspeed Digital Data Access Services			
- Per Unit			
- 20 2.4 kbps services	122.97	74.47	140.31
- 10 4.8 kbps services	63.38	59.54	126.94
- 5 9.6 kbps services	44.06	59.54	126.94

{1} Required with DS1 to Digital Data channels hub multiplexing capability.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(C) Hub Functions (Cont'd)

(2) Bridging

Narrow Band Bridges	Monthly Rates	Non-Recurring Charges
- Two-Wire Bridging: (available with NB102)		
- Per Port	$ 2.68	$ 4.41
- Telegraph Bridging: (available with NB4-7)		
- Two-Wire		
- Per Port	2.68	5.28
- Four-Wire		
- Per Port	2.68	8.78
Voice Grade Bridges		
- Voice Bridging: (available with VG2)		
- Two-Wire		
- Per Port	2.68	5.28
- Four-Wire		
- Per Port	2.68	8.78
- Data Bridging: (available with VG5, 6 & 10)		
- Two-Wire		
- Per Port	4.43	5.28

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(C) Hub Functions (Cont'd)

(2) Bridging (Cont'd)

Voice Grade Bridges	Monthly Rates	Non-Recurring Charges
- Data Bridging: (Cont'd)		
Four-Wire - Per Port	$ 4.43	$ 8.78
- DATAPHONE Select-A-Station Bridging: (available with VG5)		
Sequential Arrangement		
Ports - Per 2-wire channel connected	20.53	5.28
- Per 4-wire channel connected	109.04	8.78
Addressable Arrangement		
Ports - Per 2-wire channel connected	22.02	5.28
- Per 4-wire channel connected	112.01	8.78

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(C) Hub Functions (Cont'd)

(2) Bridging (Cont'd)

	Monthly Rates	Non-Recurring Charges
Program Audio Bridges (available with AP1-4) Distribution Amplifiers - Per Bridge	$ 35.28	$ 29.73
Digital Data Access Bridges (available with DA1-4) Central office bridge - Per Port	$ 6.48	$ 8.78

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(D) Optional Features and Functions

(1) Voice Grade Services

(a) Conditioning:

(1) C-Type Conditioning

	Monthly Rates	Nonrecurring Charges	
		Initial	Subsequent
Per Two-Point Service or each section (i.e. mid link or end link) of a Multipoint Service.	$ 5.50	$ 9.27	$ 573.68

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(D) Optional Features and Functions (Cont'd)

(1) Voice Grade Services (Cont'd)

(a) Conditioning: (Cont'd)

(2) D-A - Type Conditioning

	Monthly Rates	Nonrecurring Charges Initial	Nonrecurring Charges Subsequent
Per Two-Point Service or each section (i.e. mid link or end link) of a Multipoint Service.	$ 1.23	$ 7.92	$ 572.33

(b) Improved Return Loss 2-Wire

	Monthly Rates	Nonrecurring Charges Initial	Nonrecurring Charges Subsequent
- Per end user premises, per service	1.64	$ 11.42	$ 33.43

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(D) Optional Features and Functions (Cont'd)

(1) Voice Grade Services (Cont'd)

(c) Improved Return Loss at Four-Wire Point of Interface

	Monthly Rates	Nonrecurring Charges Initial	Nonrecurring Charges Subsequent
Per IC terminal location, per service	$ 1.64	$ 20.73	$ 42.75

(d) IC Specified End User Premises

	Monthly Rates	Nonrecurring Charges Initial	Nonrecurring Charges Subsequent
- Per end user premises, per service	None	$ 8.09	$ 30.11

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(D) Optional Features and Functions (Cont'd)

(2) Program Audio Services

(a) Gain Conditioning

	Monthly Rates	Nonrecurring Charges	
		Initial	Subsequent
Per services	$ 3.63	48.40	284.72

(b) Stereo

	Monthly Rates	Nonrecurring Charges	
		Initial	Subsequent
Per services	None	48.40	284.72

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Digital Data Access Services

		Nonrecurring Charges	
	Monthly Rates	Initial	Subsequent
Loop Transfer Arrangement			
-Per Arrangement	$ 14.21	$ 73.89	$156.52

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Features and Functions (Cont'd)

(D) Optional Features and Functions (Cont'd)

(4) High Capacity Services

	Monthly Rates	Nonrecurring Charges	
		Initial	Subsequent
Automatic Protection Switching			
- Per arrangement	$ 236.17	$ 57.35	$ 134.11

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.4 Special Access Lines

	Monthly Rates	Nonrecurring Charge: First Service	Nonrecurring Charge: Additional Service
2-Wire (for use with NB1,2, 4, 5-7, VG1-3, 5-10, and AP1-11) {1}			
- Windstream East Texas, LLC	$ 28.20	None	None
- Texas Windstream, Inc.	34.28	None	None
- Windstream Communications Kerrville, LP	34.28	None	None
4-Wire (for use with NB 4-7, VG1-3, 5-10, and DA 1-4) {1}			
- Windstream East Texas, LLC	$ 45.53	None	None
- Texas Windstream, Inc.	54.20	None	None
- Windstream Communications Kerrville, LP	54.20	None	None
Group (for use with WA1) {1}	ICB rates and charges apply.		
Supergroup (for use with WA2) {1}	ICB rates and charges apply.		

{1} See Section 7.4.2 preceding for application of Special Access Service Surcharge.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.4 Special Access Lines (Cont'd)

	Monthly Rates
19.2 kbps (for use with WD1) {1}	ICB rates and charges apply.
50 kbps (for use with WD2) {1}	ICB rates and charges apply.
230.4 kbps (for use with WD3) {1}	ICB rates and charges apply.
56 kbps (for use with WD4) {1}	ICB rates and charges apply.
DS1 - 1.544 Mbps (for use with HC1) {1}	
- Windstream East Texas, LLC	$ 93.10
- Texas Windstream, Inc.	110.83
- Windstream Communications Kerrville, LP	110.83
DS1C - 3.152 Mbps (for use with HC1C) {1}	ICB rates and charges apply.

{1} See Section 7.4.2 preceding for application of Special Access Service Surcharge.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.4 Special Access Lines (Cont'd)

	Monthly Rates	Nonrecurring Charge
Each:		
DS2 - 6.312 Mbps (for use with HC2) {1}	ICB rates and charges apply.	
DS3 - 44.736 Mbps (for use with HC3) {1}	$2000.00	$700.00
DS4 - 274.176 Mbps (for use with HC4) {1}	ICB rates and charges apply.	
Optional Feature:		
Hybrid: Provides conversion from 4-wire SAL to 2-wire termination at end user premises. Required to meet effective four-wire performance with a 2-wire end user premises facility interface.	$ 4.50	$ 11.42

{1} See Section 7.4.2 preceding for application of Special Access Service Surcharge.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.4 Special Access Service Surcharge

	Monthly Rates
Per Voice Equivalent Channel	$21.00

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services

17.4.1 Recording Service

The rates and charges are:

		Rate
(A)	Recording,	
	- per Customer message	$ 0.0264
	- per Special Order	$ 16.80
(B)	Assembling and editing,	
	- per Customer message*	ICB rates and charges apply

* Applicable when Recording Service is ordered without Message Processing Service. Not applicable when Message Processing Service, as set forth in 8.2.1 following, is provided to the IC except as set forth in 8.2.1(B)(1)(c) and 8.2.1(B)(2)(d) following.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.1 Recording Service (Cont'd)

		Rate
(C)	Provision of Customer message detail,	
	- unsorted without address charges apply information, per record processed	ICB rates and charges apply
	- sorted output without address information, per record processed	ICB rates and charges apply
	- unsorted output without address information, per record processed	ICB rates and charges apply
	- per tape or data file	ICB rates and charges apply

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.1 Recording Service (Cont'd)

		Rate
(C)	Data transmission to a Customer location	
	- per record transmitted	ICB rates and charges apply

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.2 Message Billing Service

		Rates
(A)	Message Processing Service	
	- 1 year period, per message	*
	- 3 year period, per message	*
	- 5 year period, per message	*
(B)	Additional Message Processing,	
	- per message above the message capacity ordered and allowance specified	#

* The Message Processing Service rate for each specific offering is included in the appropriate Bill Processing Service rate set forth in Section 17.4.2(G) following.

\# The Additional Message Processing rate is included in the Additional Bill Processing message-billed processing rate or bulk-billed processing rate, as appropriate, set forth in Section 17.4.2(G) following.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.2 Message Billing Service (Cont'd)

		Rates
(C)	Program Development,	
	- Basic, per hour (applicable to work performed within the Telephone Company's normal work schedule and using the normal work force)	ICB rates and charges apply
	- Premium, per hour (applicable to work performed outside the Telephone Company's normal work schedule and/or which requires additions to the work force)	ICB rates and charges apply
(D)	Data transmission of rated Customer messages detail between other exchange Telephone Company locations,	
	- per record transmitted	ICB rates and charges apply

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.2 Message Billing Service (Cont'd)

		Rates
(D)	(continued)	
	- per record received	ICB rates and charges apply
(E)	Provision of rated Customer message detail,	
	- per record processed	ICB rates and charges apply
	- per tape or data file	ICB rates and charges apply
(F)	Data transmission of rated Customer message details to a location designated	
	- per record transmitted	ICB rates and charges apply

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.2 Message Billing Service (Cont'd)

(G) Bill Processing Service,

	Rates			
	Messages per End User Account Per Month			
	1 to 10	11 to 100	101 to 600	Over 600
message-billed processing,				
- 1 year period, per message	$0.0869	$0.0869	$0.0869	$0.0869
- 3 year period, per message	ICB	ICB	ICB	ICB
- 5 year period, per message	ICB	ICB	ICB	ICB

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.2 Message Billing Service (Cont'd)

(G) Bill Processing Service, (continued)

	Rates			
	1 to 100	11 to 100	101 to 600	Over 600
Message Billed Inquiry				
- 1 year period, per message	*	*	*	*
- 3 year period, per message	*	*	*	*
-5 year period, per message	*	*	*	*

	Rates
bulk-billed processing,	
- 1 year period, per message	$0.0869
- 3 year period, per message	ICB rates and charges apply
- 5 year period, per message	ICB rates and charges apply

* The message-billed inquiry rate is included in the appropriate message-billed processing rate set forth preceding.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.2 Message Billing Service (Cont'd)

(G) Bill Processing Service, (Cont'd)

	Rates
bulk-billed inquiry,	#
- 1 year period, per message	#
- 3 year period, per message	#
- 5 year period, per message	#

(H) Additional Bill Processing, per message above the bill capacity ordered and allowance specified,

- message-billed processing, each.	$0.0869
- message-billed inquiry, each	*
- bulk-billed processing, each	0.0869
- bulk-billed inquiry, each	#

(I) Message-Billed Service, in which one or more messages or message service related rate elements are billed.

- per bill rendered for an end user account	0.3948

* The Additional Bill Processing inquiry rate is included in the appropriate Additional Bill Processing processing rate set forth preceding.

\# The bulk-billed inquiry rate is included in the appropriate bulk-billed processing rate set forth preceding.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.2 Message Billing Service (Cont'd)

(J)	Bulk-Billed Service, in which a charge associated with a bulk-billed service is billed,	
	- per bill rendered for an end user account,	$ 0.39
(K)	End User Account Activity,	
	- Special Order Charge to receive end user account data,	ICB rates and charges apply
	- End User Account Establishment and Change, except rate element rate level changes and rate structure, Charge, per end user account established or changed per recurring or nonrecurring rate element established or changed and end user balance due changed, each	*
	- End User Account Rate Element Rate Level Change Charge, per rate element changed, each	*
	- End User Account Rate Element Rate Structure Change Charge, per rate element changed, each	ICB rates and charges apply

* Rates for these offerings are included in the Bill Processing Service message-billed processing and bulk-billed processing rates, as appropriate, set forth in Section 17.4.2(G) preceding.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.2 Message Billing Service (Cont'd)

		Rates
(L)	Data transmission from a Customer location of Message Billing Service detail or information	
	- per record received	ICB rates and charges apply
(M)	Credit Card Issuance,	
	- preparation, per end user account	*
	- distribution, per card	ICB rates and charges apply
(N)	Message Billing Service Special Order Charge,	
	- per Special Order	$ 16.80
(O)	Retention of Records Under Accounting Orders,	
	- per order per month	ICB rates and charges apply

* Rates for these offerings are included in the Bill Processing Service message billed processing and bulk-billed processing rates, as appropriate, set forth in Section 17.4.2(G) preceding.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.3 Private Line Billing Services

The rates and charges are:

	Rates
(A) End User Account Activity	
-Special Order to receive end user account data, per Special Order	ICB rates and charges apply
- End User Account Establishment and Change, except rate element rate level changes and rate structure changes, Charge, per end user account established or changed and per recurring and nonrecurring rate element established or changes, each	*

* Rate for this offering is included in the Bill rendering charge rate set forth in Section 17.4.3(B) following

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.3 Private Line Billing Services (Cont'd)

		Rates
(A)	(Continued)	
	-End User Account Rate Element Rate Level Change Charge per rate element changed	*
	-End User Account Rate Element Rate Structure Change Charge, per rate element changed	ICB rates and charges apply
(B)	Bill Rendering charge	
	-per bill rendered for an end user account	$ .97
(C)	Program Development Charge	
	-Basic, per hour (applicable to work performed within the Telephone Company's normal work schedule and using the normal work force)	ICB rates and charges apply
	-Premium, per hour (applicable to work performed outside the Telephone's Company's normal work schedule and/or which require additions to the work force)	ICB rates and charges apply

* Rate for this offering is included in the Bill rendering charge rate set forth in Section 17.4.3(B) following.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.3 Private Line Billing Services (Cont'd)

		Rates
(D)	Inquiry,	
	-per bill rendered for an end user account	*
(E)	Private Line Billing Special Service Order Charge,	
	-per Special Order	$ 16.80
(F)	Retention of Records Under Accounting Orders	
	-per order per month	ICB rates and charges apply

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.4 Billing Analysis Service

		Rates
(A)	Detection Service,	
	- 60 Day Report per office, per report	BAAVE
	- Continuous Scan per Office, per week	ICB
(B)	Investigative Service	ICB
	- Identification Report, per hour*	ICB
	- Collection of Evidence, per hour*	ICB
	- Documentation Scan per line, per occurrence	ICB
	- Preparation of Affidavit and Prosecutive Summary, per hour*	ICB
	- Preservation of Evidence, per week	ICB
	- Assist Law Enforcement, per hour*	ICB
	- Provision of Expert Witness Analysis, per hour*	ICB
	- Provision of Expert Witness Testimony, per hour*	ICB
	- Coordination services, per hour*	ICB
	- Review services, per hour*	ICB

* Premium time per hour rates are two time the per hour rates and will, when necessary, be included in the ICB rates and charges.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.4 Billing Analysis Service (Cont'd)

		Rates
(A)	Deterrence Service,	
	- Recovery of devices, per hour	ICB
	- Contact and Interview of Parties per hour	ICB
	- Service Review, per hour	ICB
	- Publicity Assistance, per hour	ICB
(D)	Provision of Billing Analysis Service,	
	- Per Special Order	ICB

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.4 Billing Analysis Service (Cont'd)

	Rates			
	Message Detail	Account Detail	Service and Equipment Detail	Detail on Tape
Service,				
- Paper output, per record processed	ICB	ICB	ICB	
- Magnetic tape per record processed per tape or data file.	ICB	ICB	ICB	ICB
- Fiche output, per record processed	ICB	ICB	ICB	

* The Quick Turnaround per record charge and the per tape charge is three times the 10 working day per record charge and per tape charge.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.4 Billing Information Service (Cont'd)

		Rates
(B)	DBAS Information Service,	#
	- Paper output, per record processed	
	- Magnetic tape, per record processed per tape or data file	#
	- Fiche output, per record processed	#
(C)	CRIS File or DBAS File interrogation,	
	- per request received	#
(D)	Program Development charge,	
	- Basic, per hour (applicable to work performed within the Telephone Company's normal work normal work schedule and using the normal work force)	ICB rates and charges apply

These offerings are only provided where facilities are available. When facilities can be made available with agreement of the telephone company, ICB rates and charges apply.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.4 Billing Information Service (Cont'd)

		Rates
(B)	(Continued)	
	- Premium, per hour (applicable to work performed performed outside the Telephone Company's normal work schedule and/or which requires additions to the work force.	ICB rates and charges apply
(E)	Information Service	
	- CNA interrogation per request received	*
	- CNA interrogation confirmation per request confirmed	*
(F)	Data transmission to a Customer location of billing information service details, per record transmitted	ICB rates and charges apply

These offerings are only provided where facilities are available. When facilities can be made available with the agreement of the telephone company, ICB rates and charges apply.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Billing and Collection Services (Cont'd)

17.4.4 Billing Information Service (Cont'd)

		Rates
(G)	Marking of messages end users accounts	
	- marking per end user account	ICB rates and charges apply
	- maintenance of mark, per end user account per month	ICB rates and charges apply
(H)	Updating of Customer data bases or files	
	- per record transmitted	ICB rates and charges apply
(I)	Provision of bill information services	
	- per special order	ICB rates and charges apply

These offerings are only provided where facilities are available. When facilities can be made available with the agreement of the telephone company, ICB rates and charges apply.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges

17.5.1 Charges for Additional Engineering

The charges for additional Engineering are as follows:

	Additional Engineering Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
(A)	Basic Time, regularly scheduled working hours, per engineer		
	- Windstream East Texas, LLC	$55.44	$33.42
	- Texas Windstream, Inc.	$55.44	$33.42
	- Windstream Communications Kerrville, LP	$66.00	$39.79
(B)	Overtime, outside of regularly scheduled working hours, per engineer.		
	- Windstream East Texas, LLC	$61.66	$39.65
	- Texas Windstream, Inc.	$61.66	$39.65
	- Windstream Communications Kerrville, LP	$73.41	$47.20

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.1 Charges for Additional Engineering (Cont'd)

Additional Engineering Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
(A) Installation or Repair		
- Overtime, outside of regularly scheduled working hours, on a scheduled work day, per technician		
- Windstream East Texas, LLC	$24.62 {1}	$2.60 {1}
- Texas Windstream, Inc.	$24.62 {1}	$2.60 {1}
- Windstream Communications Kerrville, LP	$29.31 {1}	$3.10 {1}
- Premium Time, outside of scheduled work day, per technician		
- Windstream East Texas, LLC	$27.23 {1}	$5.22 {1}
- Texas Windstream, Inc.	$27.23 {1}	$5.22 {1}
- Windstream Communications Kerrville, LP	$32.42 {1}	$6.21 {1}
(B) Standby		
- Basic Time, regularly scheduled working hours hours, per technician		
- Windstream East Texas, LLC	None	$15.04
- Texas Windstream, Inc.	None	$15.04
- Windstream Communications Kerrville, LP	None	$17.91
- Overtime, outside of regularly scheduled working hours, on a scheduled work day, per technician		
- Windstream East Texas, LLC	None	$17.65 {1}
- Texas Windstream, Inc.	None	$17.65 {1}
- Windstream Communications Kerrville, LP	None	$21.01 {1}
- Premium time, outside of scheduled work day, per technician.		
- Windstream East Texas, LLC	None	$20.26 {1}
- Texas Windstream, Inc.	None	$20.26 {1}
- Windstream Communications Kerrville, LP	None	$24.12 {1}

{1} A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.2 Charges for Additional Labor (Cont'd)

	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Testing and Maintenance with other telephone companies, or other Labor		
- Basic Time, regularly scheduled working hours, per technician		
- Windstream East Texas, LLC	$37.06	$15.04
- Texas Windstream, Inc.	$37.06	$15.04
- Windstream Communications Kerrville, LP	$44.12	$17.91
- Overtime, outside of regularly scheduled working hours on a scheduled work day, per technician		
- Windstream East Texas, LLC	$39.66 {1}	$17.65 {1}
- Texas Windstream, Inc.	$39.66 {1}	$17.65 {1}
- Windstream Communications Kerrville, LP	$47.22 {1}	$21.01 {1}
- Premium Time, outside of scheduled work day, per technician		
- Windstream East Texas, LLC	$42.28 {1}	$20.26 {1}
- Texas Windstream, Inc.	$42.28 {1}	$20.26 {1}
- Windstream Communications Kerrville, LP	$50.33 {1}	$24.12 {1}

{1} A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.3 Maintenance of Service

Maintenance of Service Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
- Basic Time, regularly scheduled working hours, per technician		
- Windstream East Texas, LLC	$37.06	$15.04
- Texas Windstream, Inc.	$37.06	$15.04
- Windstream Communications Kerrville, LP	$44.12	$17.91
- Overtime, outside of regularly scheduled working hours on a scheduled work day, per technician		
- Windstream East Texas, LLC	$39.66 {1}	$17.65 {1}
- Texas Windstream, Inc.	$39.66 {1}	$17.65 {1}
- Windstream Communications Kerrville, LP	$47.22 {1}	$21.01 {1}
- Premium Time, outside of scheduled work day, per technician		
- Windstream East Texas, LLC	$42.28 {1}	$20.26 {1}
- Texas Windstream, Inc.	$42.28 {1}	$20.26 {1}
- Windstream Communications Kerrville, LP	$50.33 {1}	$24.12 {1}

{1} A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5. Restoration Priority

	Nonrecurring Charge
Restoration priority, per service arranged	
- Windstream East Texas, LLC	$ 87.38
- Texas Windstream, Inc.	$ 87.38
- Windstream Communications Kerrville, LP	$104.02

17.5.5 InterLATA Presubscription

	Nonrecurring Charge
Charges will be billed based on the Company's interstate tariff and assigned to the interstate jurisdiction.	

17.5.6 IntraLATA Presubscription

	Nonrecurring Charge
(A) PIC Change per Telephone Exchange Service line or trunk	$ 5.00
	Annual Charge
(B) Cost Recovery apportioned per originating IntraLATA Switched Access minute	$16,146.87

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access

(A) Additional Cooperative Acceptance Testing

Testing Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Basic Time, regularly scheduled working hours, per technician	$36.75	$14.73
Overtime, outside of regularly scheduled working hours on a scheduled workday, per technician	{1}39.50	{1}17.48
Premium Time, outside scheduled work day, per technician	{1}42.24	{1}20.23

{1} A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(B) Automatic Scheduled Testing (AST)

The three tests as set forth in (I) following represent the minimum offering, i.e., an order for testing must, at a minimum, consist of twelve 1004 Hz Tests per transmission path, twelve C-Message Noise Tests per transmission path and one Return Loss (Balance) Test per transmission path, per year. The Additional Tests as set forth in (II) following may be ordered by the customer, at additional charges, 60 days prior to the start of the customer prescribed schedule. The customer also may specify a more frequent schedule of tests 60 days prior to the start of the customer prescribed schedule.

(1) Basic Offering {1}	Monthly Rates
1004 Hz Loss Tests performed within a one year period, per test ordered, per transmission path	$0.05

{1} Subject to a one year minimum contract period, and annually thereafter.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(B) Automatic Scheduled Testing (AST) (Cont'd)

To First Point of Switching	Monthly Rates
(1) (Cont'd)	
Basic Tests {1} (Cont'd)	
C-Message Noise Tests performed within a one year period, per test ordered, per transmission path.	$0.05
Return Loss (Balance Tests) performed within a one year period, per test ordered, per transmission path.	0.05
(2) Additional Tests	
Gain-Slope Tests performed within a one year period, per test ordered, per transmission path.	0.05

{1} Subject to a one year minimum contract period, and annually thereafter.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(B) Automatic Scheduled Testing (AST) (Cont'd)

To First Point of Switching	Monthly Rates
(2) (Cont'd)	
Additional Tests (Cont'd)	
C-Notched Noise Tests performed within a one year period, per test ordered, per transmission path	$0.05

(3) Example

A customer schedules 13 1004 Hz Loss Tests, 13 C-Message Noise Tests and 2 Return Loss Tests on one trunk for a year. The charges will be computed as follows:

+13	X	.06	=	.78
+13	X	.06	=	.78
+ 2	X	.06	=	.12

$ 1.68 per month, per trunk

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(C) Cooperative Scheduled Testing (CST)

To First Point of Switching	Monthly Rates
(1) Basic Offering {1}	
1004 Hz Loss Tests performed within a one year period, per test ordered, per transmission path	$0.29

{1} Subject to a one year minimum contract period, and annually thereafter.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(C) Cooperative Scheduled Testing (CST) (Cont'd)

To First Point of Switching	Monthly Rates
(1) Basic Tests {1} (Cont'd)	
C-Message Noise Tests performed within a one year period, per test ordered, per transmission path.	$0.21
Return Loss (Balance) Tests performed within a one year period, per test ordered, per transmission path	0.46
(2) Additional Tests	
Gain-Slope Tests performed within a one year period, per test ordered, per transmission path	0.29

{1} Subject to a one year minimum contract period, and annually thereafter.17.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(C) Cooperative Scheduled Testing (CST) (Cont'd)

To First Point of Switching	Monthly Rates
(2) C-Notched Noise Tests performed within a one year period, per test ordered, per transmission path	$0.21

(3) Example

A customer schedules 6 1004 Hz Loss Tests, 6 C-Message Noise Tests and 4 Return Loss Tests on one trunk for a year. The charges will be computed as follows:

+6	X	.34	=	2.04
+6	X	.25	=	1.50
+4	X	.55	=	2.20

$ 5.74 per month, per trunk

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(D) Manual Scheduled Testing (MST)

To First Point of Switching	Monthly Rates
(1) Basic Tests {1}	
1004 Hz Loss Tests performed within a one year period, per test ordered per transmission path	$0.76

{1} Subject to a one year minimum contract period, and annually thereafter.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(D) Manual Scheduled Testing (MST) (Cont'd)

To First Point of Switching	Nonrecurring Charges
(1) Basic Tests {1} (Cont'd)	
C-Message Noise Tests performed within a one year period, per test ordered, per transmission path.	$0.50
Return Loss (Balance) Tests performed within a one year period, per test ordered, per transmission path.	1.01
(2) Additional Tests	
Gain-Slope Tests performed within a one year period, per test ordered, per transmission path	.76

{1} Subject to a one year minimum contract period, and annually thereafter.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(D) Manual Scheduled Testing (MST) (Cont'd)

To First Point of Switching	Nonrecurring Charges
(2) Additional Tests (Cont'd)	
C-Notched Noise Test performed within a one year period, per test ordered, per transmission path.	$0.50

{1} Subject to a one year minimum contract period, and annually thereafter.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(E) Nonscheduled Testing (NST)

Automatic Testing:

To First Point of Switching	Nonrecurring Charges
1004 Hz Loss, per test performed	$10.45
C-Message Noise, per test performed	10.45
Return Loss (Balance), per test performed	10.45
Gain-Slope, per test performed	10.45
C-Notched Noise, per test performed	10.45

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(E) Nonscheduled Testing (NST) (Cont'd)

Testing Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Basic Time, regularly scheduled working hours, per technician	$ 36.75	$ 14.73
Overtime, Outside of regularly scheduled working hours on a scheduled work day, per technician	{1} 39.50	{1} 17.48
Premium Time, outside scheduled work day, per technician	{1} 42.24	{1} 20.23

{1} A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(E) Nonscheduled Testing (NST) (Cont'd)

Testing Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Basic Time, regularly scheduled working hours, per technician	$ 36.90	$ 14.88
Overtime, Outside of regularly scheduled working hours on a scheduled work day, per technician	{1} 39.58	{1} 17.56
Premium Time, outside of scheduled work day, per technician	{1} 42.26	{1} 20.24

{1} A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.7 Testing Services - Switched Access (Cont'd)

(F) Additional Cooperative Acceptance Testing (ACAT)

Testing Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Basic Time, regularly scheduled working hours, per technician	$ 37.06	$ 15.04
Overtime, Outside of regularly scheduled working hours on a scheduled work day, per technician	{1} 39.66	{1} 17.65
Premium Time, outside of scheduled work day, per technician	{1} 42.28	{1} 20.26

{1} A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.8 Testing Services - Special Access

(A) Nonscheduled Testing (NST)

Testing Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Basic Time, regularly scheduled working hours, per technician	$ 37.06	$ 15.04
Overtime, Outside of regularly scheduled working hours on a scheduled work day, per technician	{1} 39.66	{1} 17.65
Premium Time, outside of scheduled work day, per technician	{1} 42.28	{1} 20.26

{1} A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.9 Provisions of Access Service Billing Information

Regulations concerning Access Services Billing are set forth in 13.3.6 preceding.

(1) Secondary Bill

	Monthly Rate
Standard Paper(per page)	
Requests for copies less than 100 pages	$0.00
Requests for copies more than 100 pages	$0.03
Magnetic Tape(per tape)	$39.50
Data Transmission(per transmission)	$20.25

(2) Additional Copies

	Non Recurring Charge
Standard Paper(per page)	
Requests for copies less than 100 pages	$0.00
Requests for copies more than 100 pages	$0.06
Magnetic Tape(per tape)	$48.00
Data Transmission(per transmission)	$28.00

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.10 Protective Connecting Arrangements

Description	Monthly Rates	Nonrecurring Charges
Automatic PCA with a contact type signaling interface for 2 or 4-wire voice-band connections of CPE communications systems to Telephone Company Special Access Services	$ 4.91	None
Automatic PCA for connection of a customer, authorized user or joint user provided communications system arranged for CPE dial or automatic channel signaling, to a Telephone Company Special Access Service which terminates at the distant end in a telephone company-provided PBX arranged for dial or automatic signaling (4-wire).	8.48	$ 73.21
PCA which provides for connection of CPE automatic telephone answering devices to central office, PBX trunk, key system lines, and centrex station lines by key system lines, and centrex station lines by means of a 2-wire interface.	ICB Rates and Charges apply	ICB Rates and Charges apply.
PCA for connection of CPE answering or recording equipment to Telephone Company lines, for one-way voice transmission in each direction but not simultaneously. Recording of two-way conversations is prevented, by the PCA.	4.54	25.83

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.10 Protective Connecting Arrangements (Cont'd)

Description	Monthly Rates	Nonrecurring Charges
PCA for use with CPE answer only equipment where two-way is required	ICB Rates and charges apply.	ICB Rates and charges apply.
Same application as above with voice control disconnect and automatic receive volume limiting.	ICB Rates and charges apply.	ICB Rates and charges apply.
PCA for use with CPE to provide data on PBX trunks. Also requires standard PBX trunk PCA.	ICB Rates and charges apply.	ICB Rates and charges apply.
PCA to permit connection of CPE message registers to exchange facilities of the Telephone Company for indications of message registration for outgoing calls over the associated central office trunks (facilities). Each trunk would also have a PCA (typically CDH or CD8 for connection of the CPE PBX. Association of the trunk with the station is made by the CPE.	ICB Rates and charges apply.	ICB Rates and charges apply.
Alarm coupler for use with rotary dial, one-way transmission CPE alarm signaling device.	ICB Rates and charges apply.	ICB Rates and charges apply.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.10 Protective Connecting Arrangements (Cont'd)

Description	Monthly Rates	Nonrecurring Charges
PCA to permit the connection of CPE to a Telephone Company special recording trunk arranged for 2-way service, i.e., outward dialing by hotel/motel guests and rering by the operator of the Telephone Company long distance switchboard.	ICB Rates and charges apply.	ICB Rates and charges apply.
For termination of CPE tie lines, with CPE channel signaling, in Centrex systems 4-wire.	$6.05	$ 18.14
PCA used for automatic connection of CPE voice transmitting and/or receiving terminal equipment to an exchange line or PBX/CTX station line, or to a Switched Access Line, e.g., a WATS access line.	7.90	6.55
PCA to provide for connection of CPE terminal equipment to Telephone Company central office key system and PBX station lines, and Switched Access Lines, e.g., WATS access lines, via 3-wire interface.	ICB Rates and charges apply.	ICB Rates and charges apply.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.10 Protective Connecting Arrangements (Cont'd)

Description	Monthly Rates	Nonrecurring Charges
PCA for connection of CPE voice communications systems and/or terminal equipment via 2-wire interface to Telephone Company lines and trunks (only loop start trunks not equipped for toll diversion), or terminal equipment.	ICB Rates and charges apply.	ICB Rates and charges apply.
Manual PCA used to connect a cord switchboard position of a CPE system, which provides supervisory signals, to an exchange trunk line.	ICB Rates and charges apply.	ICB Rates and charges apply.
Automatic PCA used to connect an exchange trunk line arranged for two-way combination service to and from the attendant position and from the dial switching equipment of a CPE system.	$8.78	$32.80
Automatic PCA used to connect an exchange trunk line arranged for one-way incoming service to the attendant position of a CPE system.	ICB Rates and charges apply.	ICB Rates and charges apply.
Automatic PCA used to connect an exchange trunk line arranged for one-way outgoing service from the attendant position of a CPE system.	ICB Rates and charges apply.	ICB Rates and charges apply.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Miscellaneous Charges (Cont'd)

17.5.10 Protective Connecting Arrangements (Cont'd)

Description	Monthly Rates	Nonrecurring Charges
Automatic PCA used to connect an exchange trunk line arranged for one-way outgoing service from the dial switching equipment of a CPE system	ICB Rates and Charges apply.	ICB Rates and Charges apply.
Automatic PCA used to connect an exchange trunk line arranged for two-way service to and from the attendant position of a CPE system.	$6.55	$32.80
PCA used for automatic connecting of CPE voice transmitting and/or receiving terminal equipment bridged to an exchange line or PBX/CTX station line, or to a Switched Access Line, e.g., WATS access line, which is terminated in a Telephone Company station.	7.90	6.55
Automatic PCA used to connect an exchange trunk line, arranged for one-way service, i.e., outward dialing by hotel/motel guests to the operator position of a Telephone Company long distance switchboard (the equivalent of a toll terminal).	ICB Rates and Charges apply	ICB Rates and Charges apply.
PCA to provide for connection of CPE originate only or originate and answer terminal equipment.	ICB Rates and Charges apply.	ICB Rates and Charges apply.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.6 Special Federal Government Access Services

17.6.1 Service Offerings to the Federal Government

(A) Voice Grade Special Access Service

Voice Grade Secure Communications	Monthly Rates	Nonrecurring Charges	Termination Charges
Type I, each T-3 Conditioning	ICB rates and charges apply		
Additional Conditioning per service termination	ICB rates and charges apply		
Type II, each G-1 Conditioning	ICB rates and charges apply		
Type III, each G-2 Conditioning	ICB rates and charges apply		
Additional Conditioning, per service termination	ICB rates and charges apply		
Type IV, each G-3 Conditioning	ICB rates and charges apply		
Additional Conditioning, per service termination	ICB rates and charges apply		

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.6 Special Federal Government Access Services

17.6.1 Service Offerings to the Federal Government

(A) Voice Grade Special Access Service

Wideband Secure Communications	Monthly Rates	Nonrecurring Charges	Termination Charges
Type I, each	ICB rates and charges apply		
Type II, each	ICB rates and charges apply		
Type III, each	ICB rates and charges apply		

17.7 Specialized Service or Arrangements

Specialized Service or Arrangements are provided in accordance with 12.1 preceding on an individual case basis as set forth following:

Non multiplexed DS3 rate from Windstream central office to following locations in Houston:

	Houston Location	Month to Month	36 Month Contract	60 Month Contract	Nonrecurring
Rate per DS3, no MUX	AT&T01 POP	$3955.05	$3291.20	$3018.35	$363.00
Rate per DS3, no MUX	AT&TFY POP	$3553.85	$3019.20	$2763.35	$363.00
Rate per DS3, no MUX	MCI POP	$3553.85	$3019.20	$2763.35	$363.00
Rate per DS3, no MUX	Sprint POP	$4155.65	$3427.20	$3145.85	$363.00
Rate per DS3, no MUX	CLAY LSO	$3955.05	$3291.20	$3018.35	$363.00
Rate per DS3, no MUX	BUFFALO LSO	$3052.35	$2679.20	$2444.60	$363.00