

**CTC Communications Corp.**  
**d/b/a EarthLink Business**  
1170 Peachtree Street NE, Suite 900  
Atlanta, GA 30309  
Issued By: Vice President, Tax

New Hampshire Tariff No. 1  
Original Title Page

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Effective: April 5, 2017

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ACCESS SERVICES

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**CTC Communications Corp.**  
**d/b/a EarthLink Business**  
1375 Peachtree Street, Level A  
Atlanta, GA 30309

This Tariff applies to Access Service furnished by CTC Communications Corp. d//b/a EarthLink Business (“CTC” or the “Company”) between one or more points in the State of New Hampshire. This tariff is on file with the New Hampshire Public Utilities Commission and copies may be inspected during normal business hours at the Company’s principal place of business.

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**CHECK SHEET**

Pages of this tariff, as indicated below, are effective as of the date shown at the bottom of the respective pages. Original and revised pages, as named below, comprise all changes from the original tariff and are currently in effect as of the date on the bottom of this page.

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**SYMBOLS**

The following symbols shall be used in this tariff for the purpose indicated below:

- C - To signify changed regulation or condition.
- D - To signify a discontinued material, including listing, rate, rule or condition.
- I - To signify an increased rate.
- M - To signify material relocated from or to another part of tariff schedule with no change in text, rate, rule or condition.
- N - To signify new material including listing, rate, rule or condition.
- R - To signify a reduction.
- S - To signify reissued material.
- T - To signify change in wording of text but not change in rate, rule or condition.

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**TARIFF FORMAT**

- A. Page Numbering - Page numbers appear in the upper right corner of the page. Pages are numbered sequentially, however, new pages are occasionally added to the tariff. When a new page is added between pages already in effect, a decimal is added. For example, a new page added between pages 14 and 15 would be 14.1.
- B. Page Revision Numbers - Revision numbers also appear in the upper right corner of each page. These numbers are used to determine the most current page version on file with the Commission. For example, the 4<sup>th</sup> Revised Page 14 cancels the 3<sup>rd</sup> Revised Page 14. Because of various suspension periods, deferrals, etc. the Commission follows in their tariff approval process, the most current page number on file with the Commission is not always the tariff page in effect.
- C. Paragraph Numbering Sequence - There are nine levels of paragraph coding. Each level of coding is subservient to its next higher level:
- 2.
  - 2.1.
  - 2.1.1.
  - 2.1.1.A.
  - 2.1.1.A.1.
  - 2.1.1.A.1.(a).
  - 2.1.1.A.1.(a).I.
  - 2.1.1.A.1.(a).I.(i).
  - 2.1.1.A.1.(a).I.(i).(1).
- D. Check Sheets - When a tariff filing is made with the Commission, an updated check sheet accompanies the tariff filing. The check sheet lists the pages contained in the tariff, with a cross reference to the current revision number. When new pages are added, the check sheet is changed to reflect the revision. All revisions made in a given filing are designated by an asterisk (\*). There will be no other symbols used on the check sheet if these are the only changes made to it (*i.e.*, the format, etc. remains the same, just revised revision levels on some pages). The tariff user should refer to the latest check sheet to find out if a particular page is the most current on file with the Commission.

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**SECTION 1 - TARIFF INFORMATION**

1.1 Referencing

1.1.1 Reference to Other Tariffs

Whenever reference is made in this tariff to other tariffs of the Company, the reference is to the tariffs in force as of the effective date of this tariff and to amendments thereto and successive issues thereof. The regulations, rates and charges contained herein are in addition to the applicable regulations, rates and charges specified in other tariffs of the Company which are referenced herein.

1.1.2 Reference to Other Publications

- A. Technical Reference Documents referenced as NTR-XXXX can be obtained from Manager, Information Management, Telesector Resources Group, Product Engineering, 441 Ninth Avenue, Floor 2 NY, NY 10001.
- B. PUB AS No. 1, Issue II and Addendum can be obtained from NECA Inc., Director- Tariff and Regulatory Matters, 100 S. Jefferson Road, Whippany, NJ 07981 and the FCC's Commercial Contractor.
- C. NECA FCC Tariff No. 5 can be obtained from the FCC's Commercial Contractor.
- D. Other Technical publications (referenced as PUB, TR-NPL, TR-TSY, CB or SR) can be obtained from Bell Communications Research, Inc. Distribution Storage Center, 60 New England Ave., Piscataway, NJ 08854.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions

800 Data Base Access Query – A database look up which returns a valid identification code.

800 Data Base Access Service – A service which uses database system to identify 800 access Customers on a 1-Digit Basis. For purposes of administering the rules and regulations set forth in this tariff regarding the provision of 800 database access, except where otherwise specified, the term 800 database access shall include 888, 877, 855, 844, 8333 and 822 NPAs.

800 Service Management System (800 SMS) – The main operations support system used to create and update 800 service records in the national data base.

800 Service Provider – A telecommunications company, including exchange carriers and Interexchange Carriers or resellers of exchange or interexchange services that offers 800 Service to end-users.

Access Code – A uniform five, six or seven digit code assigned by the Company to an individual Customer. The five digit code has the form 10XXX, the six digit code has the form 101XXX and the seven digit code has the form 950-XXXX or 950-1XXX.

Access Concentrator – The network equipment which collects Customer data information from many access lines, multiplexes the data onto trunks for delivery to the packet switch and vice versa. The access concentrator improves the efficiency of a communications circuit by combining a number of low speed inputs into a single, higher speed output.

Access Minutes – The usage of exchange facilities in intrastate service for the purpose of calculating chargeable usage. On the originating end of an intrastate call, usage is measured from the time the originating end-user's call is delivered by the Company to and acknowledged as received by the Customer's facilities connected with originating exchange. On the terminating end of an intrastate call, usage is measured from the time is received by the end-user in the terminating exchange. Timing of usage at both originating and terminating ends of an intrastate call shall terminate when the calling or the called party disconnects, whichever event is recognized first in the originating and terminating exchanges, as applicable.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

Access Tandem – A Company switching system that provides a concentration and distribution function for originating and terminating traffic between end offices and a Customer's premises.

Address Code – A code up to six alphanumeric characters which identifies Information Providers

Advance Payment – Part or all of a payment required before the start of service.

Answer/Disconnect Supervision – 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 called party has answered.

Asynchronous – A form of communication whereby each data character is individually synchronized by means of start and stop elements.

Asynchronous Transmission Mode (ATM) – A high-speed switching technique that uses fixed type cells to transmit voice, video and data over fiber optic cabling.

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

Automatic Number Identification (ANI) – Allows the automatic transmission of a caller's billing account telephone number to a local exchange company, interexchange carrier or a third party subscriber. The primary purpose of ANI is to allow for billing of toll calls.

Balance (100 Type) Test Line – An arrangement in an end office which provides for balance and noise testing.

Bill Message – An informational or advertising narrative developed by the Interexchange carrier and approved by the Company that appears on the Interexchange Carrier's bill, and / or invoice to be used with manual and / or mechanized bill message service.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

**Bill Message Service** – Consists of the preparation of mechanized and / or manual bill messages for an Interexchange Carrier end user Customer's bill and mechanized bill message service is used for an Interexchange Carrier's end user's invoice.

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

**Broadband** – A data transmission scheme where multiple transmissions including voice, data and video share a communications path.

**Bursty Traffic** – Communications traffic characterized by short periods of high intensity separated by fairly long intervals of little or no utilization.

**Business Day** – The Time of day that a Company is open for business. Generally, in the business community, these are 8AM or 9AM to 5PM or 6PM, respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty hour work week. However, business day hours for the Company may vary based on Company policy, contract or location. To determine such hours for an individual Company, or Company location, that Company should be contacted.

**Busy Hour Minutes of Capacity (BHMC)** – The Customer specified maximum amount of switched access service and / or directory assistance service access minutes the Customers expects to be handled in an end office switch during any hour in an 8AM to 11PM period for the feature group and / or directory assistance service ordered. The Customer furnished BHMC quantity is the input data the Companies to determine the number of transmission paths for the feature group and / or the directory assistance service ordered.

**Byte** – A grouping of Bits. A Byte may or may not be directly translatable into information meaningful to the user.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

Call – A Customer attempt for which the complete address code (e.g. 0-, 911 or ten digits) is provided to the serving dial tone office.

Call Request Packet – The first packet in each session which contains the call request information.

Carrier or Common Carrier – See Interexchange Carrier

CCS – A hundred call seconds, which is 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 – A local Company switching system where telephone exchange service Customer station loops are terminated for purposes of interconnection to each other and to trunks.

Central Office Data Voice Multiplexer (CDVM) – A device attached to an exchange service line at the serving wire center which allows for the expansion of the channel to permit simultaneous or independent transmission of data and voice.

Central Office Prefix – The first three digits (NXX) of seven digit telephone number assigned to a Customer's telephone exchange service when dialed on a local basis.

Centralized Automatic Reporting on Trunks Testing – A type of testing which includes the capacity for measuring operational and transmission parameters.

Centrex CO – A central office based offering that provides Customers with such services as intercom calling, direct inward dialing, access to private facilities, route selection and station billing details.

Channel(s) – An electrical (or photonics, in the case of fiberoptic based transmission systems), communications path between two or more points of termination.

Common Channel Signal Access – The capability which allows Customer access to the Company SS7 Signaling network.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

Channel Service Unit (CSU) – Equipment which performs one or more of the following functions: (a) termination of a digital signal; (b) regeneration of a digital signal; (c) detection and / or correction of signal format error and (d) remote loop back.

Channelize – The process of multiplexing - demultiplexing wider bandwidth or higher speed channels into narrower bandwidth or slower speed channels.

C-Message Noise – The C-Message Frequency weighted average noise within 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.

C-Notched Noise – The C-Message Frequency weighted noise with a holing tone, which is removed at the measuring end through a notch (very narrow band) filter.

Commission – Refers to the New Hampshire Public Utilities Commission

Common Channel Signaling Access – The capability which allows Customer access to the CompanySS7 signaling network.

Common Line – A line or trunk, pay telephone line or other facility provided under the general and / or local exchange service tariffs of the Company, terminated on a central office switch. A common line residence is a line or trunk provided under the residential 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 – Channels and other facilities which are capable of communications between terminal equipment provided by other than the Company.

Conversation Minutes – The measurement of minutes beginning when either answer supervision or an off-hook supervisory signal is received from terminating end-user's end office and ending when either disconnect supervision or an on hook supervisory signal is received from the terminating end-user's office, indicating the called party has disconnected.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

Customer(s) – Any individual, partnership association, joint stock company, trust, corporation or governmental entity which subscribes to the services offered under this tariff including Interexchange Carriers, end-users and Cable TV companies.

Data – Circuit Terminating Equipment - Company network channel terminating equipment that interfaces with Customer- provided data terminal equipment.

Data Terminal Equipment – Terminals or computers that interface with the packet network or ISDN.

Data Transmission (107 Type) Test Line – An arrangement which provides for a connection to a signal source which provides test signals for one way testing of data and voice transmission parameters.

Decibel – A unit used to express relative difference in power, usually between acoustic or electric signals, equal ten times the common logarithm of the ratio of two signals.

Decibel Reference Noise C-Message Weighting – Noise power measurements with C-message weighting in decibels relative to power measurement with C-message weighting in decibels relative to a reference 1000 Hertz Tone of 90 db below one milliwatt.

Decibel Reference Noise C-Message Referenced to 0 – Noise power decibel reference noise C-message weighting referred to or measured at a zero transmission level point.

Dedicated Transport – The use of circuits and equipment for transport by a signal Customer.

Detail Billing – The listing of each message and / or rate element for which charges to a Customer are due on a bill prepared by the Company.

Direct Trunk Transport – Transport of switched access service, over facilities dedicated to the use of a single Customer, without switching at the tandem, either between the serving wire center and the end office, or between two Customer-designated Company offices.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.3 Definitions (Cont'd.)

Directory Assistance – The provision of telephone numbers by a Company operator when the operator location is accessed by the customer by dialing (NPA) 555-1212.

Directory Assistance Location – A Company office where Company equipment first receives the directory assistance call from a Customer's premises and selects the first operator to respond to the directory assistance call.

Echo Control – The control of reflected signals in a telephone transmission path.

Echo Path Loss – The measure of reflected signal at a four wire point of termination without regard to the send and receive transmission level point.

Echo Return Loss – A frequency weighted measure of return loss over the middle of the voice band (approximately 500 to 2500 Hertz), where talker echo is most annoying

Effective Two-Wire – A condition which permits the simultaneous transmission in both directions over a channel, but it is possible to insure independent information transmission in both directions.

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

End Office Switch – A Local Company switching system where telephone exchange service Customer station loops are terminated for purposes of interconnection to trunk. Included are remote switching modules and remote switching systems served by a host office in a different wire center.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

End User – Any Customer of intrastate telecommunications service that is not a carrier, except that a carrier other than a Company shall be deemed to be an end-user when such uses a telecommunications services exclusively as a private reseller shall be deemed to be an end user.

Entrance Facility – Transport from the Customer designated premises to the serving wire center of the Customer premises or to an alternate serving wire center negotiated with the Company.

Entry Switch – See First Point of Switching

Envelope Delay Distortion – A measure of the linearity of the phase verses frequency of a channel.

Equal Level Echo Path Loss (ELEPL) – A measure of Echo Path Loss (EPL) at a four wire interface which is corrected by the difference between send and receive Transmission Level Point (TLP).  $ELEPL = EPL - TLP(\text{send}) + TLP(\text{receive})$ .

Ethernet – A local area network protocol defined by the IEEE. It defines how data is transmitted on and retrieved from local area computer networks.

Exchange – A unit generally smaller than LATA, established by the Company for the administration of communications specified area which usually embraces a city, town or village and its environs. It consist of one or more central offices together with the associated facilities used in furnishing communications service within that area. One or more designated exchanges comprise a given LATA.

Exit Message – A Signaling System 7 message sent to an end office by the Company's tandem switch to mark the carrier connect time when the Company's tandem switch sends an initial address message to an Interexchange Carrier.

Expected Measured Loss – A calculated loss in which specified 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.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

Federal Communications Commission (or “FCC”) – Independent government agency that develops and implements policy concerning interstate and international communications.

Fiber Optic Cable – A thin filament of glass with a protective outer coating through which a light beam carrying communications signals may be transmitted by means of multiple internal reflections to a receiver, which translates the message.

Field Identifier – Two or four characters that are used on service orders to convey specific instructions. Field identifiers may or may not have associated data. Selected field identifiers are used in Company billing systems to generate NRCs.

First Come-First Served – A procedure followed when a shortage of facilities or equipment occurs, such that an access service ordered cannot be installed. The orders delayed by the shortage of facilities will be prioritized according to the sequence in which they were received. That is, when facilities or equipment become available, the first order received will be the first order processed.

First Point of Switching – The first Company location at which switching occurs on the terminating path of a call proceeding from the Customer’s premises to the terminating end-office and, at the same time, the last Company location at which switching occurs on the originating path of a call proceeding from the originating end office to the Customer’s premises.

Host Customer – A Customer who authorizes a service user to connect a special access, switched access or CCSA service(s) to its multiplexed high capacity service under terms and conditions specified in this tariff for shared billing arrangement.

Host Office – An electronic switching system which provides call processing capabilities for one or more remote switching modules or remote switching systems.

Impedance Balance – The method of expressing echo return loss and ringing returning loss at a four wire interface whereby the gains and / or loss of the four wire portion of the transmission path, including hybrid, are not included in the specification.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

**Impulse Noise** – 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** – A condition in which regulations, rates and charges for an offering under the provisions of this tariff are developed based on the circumstances in each case.

**Initial Address Message** – A Signaling System 7 message sent in the forward direction to initiate trunk set up with busying of an outgoing trunk which carries the information about that trunk along with other information relating to the routing and handling of the call to the next switch.

**Inserted Connection Loss** – 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.

**Integrated Access Device (IAD)** – Installed at Customer's location, this equipment converts voice and data traffic into ATM Cells.

**Integrated Communications Network (ICN)** – The Company's facilities-based network which utilizes ATM switching protocol to provide uncompressed PVC based voice connectivity, variable CIR, Full Port CIR and Hybrid Frame Relay/ATM service, dedicated internet access and video-conferencing connectivity services.

**Interexchange Carrier or Interexchange Common Carrier** – Any individual, partnership, association, joint stock company, trust governmental entity or corporation, other than the Company, certified by or registered with the DTE and engaged for hire in the intrastate communications by wire or radio, between two or more exchanges.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

**Intermediate Hub** – A wire center that provides multiplexing which can serve itself and one or more wire centers within the LATA. In an intermediate hub (wire center), a DS3 or DS1 facility can be multiplexed and the individual switched access channels terminated at the Customer designated end office or access tandem switch(es) located within the local serving area of that wire center. The individual special access channels are terminated at the Customer designated premises located within the local servicing area of that wire center. Individual special access channels can be extended through any designated wire center(s) subtending the intermediate hub within the LATA to terminate at Customer designated premises located within the local service area of each wire center.

**Intermodulation Distortion** – A measure of non-linearity 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).

**Internetwork Carrier** – Any individual, partnership, association, joint stock company, trust government entity or corporation engaged in the hire in transport of packet data between packet networks.

**Interstate Communications** – Both Interstate and Foreign Communications.

**Intrastate Communications** – Any communications within a state subject to oversight by a state regulatory commission as provided by the laws of the state involved.

**Invoice** – End User billing media containing among other things, Interexchange carrier rated messages, bill messages, promotional messages, other charges, other charge messages and associated taxes calculated by the Interexchange carrier.

**Invoice Billing Data Files** – Invoice, adjustment and text data files which contain, among other things, information regarding Interexchange end user Customer taxes, rated messages, adjustments, other charges, bill messages, promotional messages and other charge messages.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

Kbps – Kilobits per second, denotes thousands of bits per second.

Key System – A Key system is an on-site telephone system geared to under 100 telephone organizations. Like a PBX, a Key System switches calls to and from the public network and within the user's organization.

Link Access Procedure – D Protocol - An international protocol that defines the interface between the Customer's equipment and packet network data terminating equipment and between packet networks. LAPD protocol is also a reference to the section of the published international recommendations established by the CCITT.

Legal Holiday – Days other than Saturday or Sunday on which the Companies normally closed. These include New Year's Day, Independence Day, Labor 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 Companies closed.

Line-Side Connection – A connection of a transmission path to the line side of a local exchange switching system.

Local Access and Transport Area (LATA) - A Local Access and Transport Area established pursuant to the Modification of Final Judgment entered by the United States District Court for the District of Columbia in Civil Action No. 82-0192; or any other geographic area designated as a LATA in the National Exchange Carrier Association, Inc. Tariff FCC No. 5.

Local Calling Area – A geographical area as defined in No. 1, in which an end user (telephone exchange service subscriber) may complete a call without incurring MTS charges.

Local Tandem Switch - A local Company switching unit by which local or access telephonic communications are switched to and from an end office switch.

Local Area Network (LAN) - Located on an on individual organization's premises, a LAN enables computer devices to communicate with each other.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

Loss Deviation – The variation of actual loss from the designed value.

Major Fraction Thereof – Any period in excess of one-half of the stated amount of time.

Message - a call.

Milliwatt (102 Type) Test Line – An arrangement in an end office which provides a 1004 Hz tone at 0 dBm0 for one way transmission measurements towards the Customer's premises from the Company end office.

Network Address – Numeric characters used to identify the originating or destination point of each virtual call within a packet network. The term network address is synonymous with data terminal number.

Network Control Signal – The transmission of signals used in telecommunications system which performs functions such as supervision (control, status and charge signals), addressing signaling, (e.g., dialing), calling and called number identifications, rate of flow, service selection error control and audible tone signals (call progress signals indicating reorder or busy conditions, alerting coin denominations, coin collect and coin return tones) to control digital cross connect.

Network Controller – The central computer system used with Network Reconfiguration service to control the reconfiguration of Customer private line networks provisioned through digital cross connect system devices.

Network Controller Access – A method for the Customer to access the centrally located network controller which provides Customers with the management and control function for NRS.

Network Map – The complete configuration of a Customer's frame relay port connections and permanent virtual circuits as defined by inter connectivity of network addresses and logical channels.

Nonrecurring Charges – A onetime charge that applies for a specific work activity (i.e., installation or change to an existing service).

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

Nonsynchronous Test Line – An arrangement in step by step end offices which provides operational tests which are not as complete as those provided by synchronous test lines, but can be made more rapidly.

North American Numbering Plan – A three digit area (numbering plan area) code and a seven digit telephone number made up of a three digit central office code plus a four digit station number.

Octet – A continuance sequence of eight binary numbers

Off Hook – The active condition of switched access or a telephone exchange service line

On Hook – The idle condition of switched access or a telephone exchange service line.

Open Circuit Test Line – 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.

Operator Services Provider – The interstate provider of operator services to which an end user placing an operator assisted call is connected when the end user's pre-subscribed Interexchange Carrier designates a provider of operator service to handle its operator traffic.

Originating Direction – The use of switched access service for the origination of calls from an end user premises to an Interexchange Carrier premises.

Other Charges – Credits and debits that appear on an Interexchange Carrier's end user Customer's invoice accompanied by explanatory text

Other Charge Messages – A message from an Interexchange Carrier end user Customer's invoice that describes an Interexchange Carrier charge or credit and is accompanied by an Interexchange determined credit or debit.

Packet – A continuance sequence of information usually in binary form, which is switched through a packet network as an integral unit. A packet may include Customer data, transmission or routing information and error control information.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

Packet Switch – The component of the packet switching network which performs the routing and switching functions.

Permanent Virtual Circuit - A circuit which is the electronic equivalent of a private line between two destinations network addresses.

Phase Jitter – The unwanted phase variations of a signal.

Point Code – A unique nine digit numeric identifier that identifies a Customer's Signaling System 7 capable switch and other SS7 network elements or nodes.

Point of Termination – The demarcation point or network interface, at which the Company's responsibility for the provision of access service ends. The point of demarcation or network interface is the point of interconnection between Company communications facilities and Customer provided facilities as defined in Section 68.3 of the FCCs Rules and Regulations.

Port Connection – A communications interface provided by the Company through which the Customer or an authorized user is connected to the network.

Promotional Message – A Message for an Interexchange Carrier end user Customer's invoice that describes an Interexchange Carrier Promotional Program and is accompanied by an Interexchange Carrier determined credit or debit.

Protocol – A set of rules and procedures that permit the orderly exchange of information within and across a network.

Registered Equipment – The Customer's premises equipment which complies with and as approved within the registration provisions of Part 68 of the FCCs Rules and Regulations.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

Remote Node – A Company building in which remote switching modules and / or remote switching systems are located.

Remote Switching Modules and / or Remote Switching Systems – Small remotely controlled electronic end office switches which obtain their call processing capability from an ESS type host office and cannot accommodate direct trunks to a Customer.

Return Loss – 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.

Service Access Code – A three digit code that takes place of an NPA in the dialing sequence. Particular services provided by a Customer, BOC, or independent company, may include but are not limited to 700 (Interexchange Carrier Service). Service access codes are associated with the switched access services that may be ordered by a Customer as part of the access services tariff. A Company may screen calls and route to a Customer specified point of presence based upon the service access code dialed.

Service Control Point – The Signaling System 7 node where Company databases reside.

Service User – A Customer who connects a special access, switched access or CCSA service(s) to the multiplexed high capacity service of a host Customer under the terms and conditions specified in this tariff for a shared billing arrangement.

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

Short Circuit Test Line – An arrangement in an end office which provides for an AC short circuit termination of a trunk line by means of at least four microfarads.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

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

Signaling Point – A switch that is capable of SS7 signaling.

Signaling Point of Interconnection – The Customer designated location, in the same LATA as the Company STP, where Signaling System 7 signaling information is exchanged between the Company and the Customer.

Signaling System 7 Network – A digital data network carrying signaling information which interfaces with the Company voice / data network services using the ANSI CCS7 protocol

Signaling Transfer Point – A signaling point which routes and / or transfer signaling messages through the common channel signaling network.

Singing Return Loss – The frequency weighted measure of return loss at the edges of the voice band (200 to 500 Hz and 2,500 to 3,000 Hz), where singing (instability) problems are most likely to occur.

Special Order – An order for a billing and collection service or an order for a directory assistance service.

Subtending End Office of an Access Tandem – An end office that has final trunk group routing through that tandem.

Super-Intermediate Hub – A wire center that serves itself and / or subtending wire centers in an entire LATA or within in one or more specific NPA(s) in a LATA for the provision of multiplexing (DS3 to DS1 or DS1 to Voice). In this super-intermediate hub (wire center) a DS3 to DS1 facility can be multiplexed and the individual channels terminated at Customer designated end office or access tandems switches, or at a Customer designated premises located within the local service area of this super-intermediate hub. The individual channels can be extended through its subtending wire center(s) to terminate at Customer designated premises located within the local service area of each subtending wire center.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

Switched Virtual Circuit – A communications channel (logical channel) established on a switched basis as a result of the call established procedure via one network address calling another network address. The communications channel exists until the call is terminated by either the calling or called party.

Switching Point Code – A unique nine character, numeric code that identifies a switch that is supported by the SS7 Signaling. (See Point Code).

Switching System – The hardware and / or software utilized by the Company for the establishment and maintenance of a given central office.

Synchronous – A form of communications whereby data characters are sent in a continuous stream to the destination.

Synchronous Test Line – An arrangement in an end office which performs marginal operational tests of supervisory and ring tipping functions

Tandem Switched Transport – Transport of switched access service to an end office that includes switching equipment.

Terminating Direction – The use of switched access service for the completion of calls from a Customer premises to an end user premises.

Terminus Hub – A wire center in which a DS3 or DS1 facility can be multiplexed into individual channels. A Terminus Hub serves only Customers in the wire center in which the multiplexing is preformed.

Text File – The data file transmitted by the IC which will consist of the bill messages, promotional messages and other charge messages for invoice billing.

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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

**Throughput** – The amount of information that can be moved through a port connection to and from a Customer’s computer or terminal during a specified time interval. High throughput occurs at transmission rates of 9.5 Kbps or 56 Kbps. Low to medium throughput occurs at transmission speeds up to 9.6 Kbps.

**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 (105Type) Test Line / Responder** – 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.

**Trunk** – A transmission path connecting two switching systems in a network, used in the establishment of an end to end connection.

**Trunk Circuit Identification Code** – The number assigned to each switch trunk to identify it to the SS7 Signaling System.

**Trunk Group** – A set of trunks which are traffic engineered as a unit for the establishment of connection between switching systems in which all of the communications paths are interchangeable.

**Trunk Side Connection** – The connection of a transmission path to the trunk side of a local exchange switching system.

**Two-Wire to Four-Wire Conversion** – 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 facility.

**CTC Communications Corp.**  
**d/b/a EarthLink Business**  
1170 Peachtree Street NE, Suite 900  
Atlanta, GA 30309  
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**SECTION 1 - TARIFF INFORMATION (CONT'D.)**

1.2 Definitions (Cont'd.)

**VOIP PROVIDER** – For the purposes of this Tariff, any service provider, including but not limited to carriers, that originates and/or terminates traffic in Internet protocol (“IP”) format.

**VOIP PROVIDER PARTNER** – Any VoIP Provider that uses the Company’s services to exchange traffic with the PSTN.

**VOIP-PSTN TRAFFIC** – traffic exchanged between the Company and a Customer in Time-Division-Multiplexing format that originates and/or terminates in IP format.

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ACCESS SERVICES

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**SECTION 2 - GENERAL REGULATIONS**

2.1 Undertaking of the Company

The Company undertakes to furnish access services in accordance with the terms and conditions of this tariff.

All services or commitments undertaken by the Company, and provided through the use of the facilities and/or services acquired from another carrier, are subject to any limitations set out in applicable tariff filed by the other carriers or in carrier-to-carrier agreements, and such limitations are hereby incorporated by reference.

2.1.1 Scope

This tariff contains regulations and rates and charges applicable to the provision of Intrastate Access Services and other miscellaneous services, hereinafter referred to collectively as service(s), provided by CTC Communications Corp. d/b/a EarthLink Business, hereinafter referred as the Company, to Interexchange Carriers (IXCs), Competitive Local Exchange Carriers (CLECs) and End-users.

- A. For purposes of administering this tariff, IXCs, end users and CLECs are hereinafter referred to as Customers.
- B. Customized service packages and competitive pricing arrangements at negotiated rates may be furnished on a case by case basis in response to requests by Customers to the Company from proposals or for competitive bids. Service offered under this tariff provision will be provided to Customers pursuant to a contract. Rates will be filed with the Commission for approval when they are so determined. Unless otherwise specified, the regulations for such arrangements are in addition to the applicable regulations and prices in other sections of this tariff.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.1 Undertaking of the Company (Cont'd.)

2.1.2 Shortage of Equipment or Facilities

The Company reserves the right to limit or to allocate the use of existing facilities, or of additional facilities offered by the Company, when necessary because of a lack of facilities, or due to any other cause beyond the Company's control.

2.1.3 Terms and Conditions

- A. Service is provided Seven (7) days a week, Twenty-Four (24) hours a day. For the purpose of computing charges in this tariff, a month is considered to have 30 days.
- B. Customers may be required to enter into written service orders which shall contain or reference a specific description of the service ordered, the rates and charges, the duration of the services and the terms and conditions in this tariff. Customers will also be required to execute any other documents as may be reasonably requested by the Company.
- C. In any action between the parties to enforce any provision of this tariff, the prevailing party shall be entitled to recover legal fees and court costs from the non-prevailing party in addition to other relief a court may award.
- D. This Tariff shall be interpreted and governed by the laws of the United States without regard for its choice of laws provision.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.1 Undertaking of the Company (Cont'd.)

2.1.4 Claims

Company shall be indemnified and held harmless by Customer against all claims, suits, proceedings, expenses, losses, liabilities, or damages (collectively "Claims") arising from the use of the services pursuant to this Tariff involving:

- A. Claims of third parties, including patrons or Customers of Customer, arising out of, resulting from, or related to the use of the services;
- B. Claims for libel, slander, invasion of privacy, or infringement of copyright arising from any communication using the services;
- C. Claims for patent infringement arising from combining or using the facilities and equipment furnished pursuant to this Tariff in connection or in combination with facilities or equipment not furnished by the Company; and
- D. All other Claims arising out any act or omission of Customers or patrons of Customer, in connection with the services made available to the Customer pursuant to this Tariff.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.1 Undertaking of the Company (Contd.)

2.1.5 Testing, Maintenance and Adjusting

Upon suitable notice, the Company may make such tests, adjustments, and inspections as may be necessary to maintain the Company's facilities in satisfactory operating condition. No interruption allowance will be credited to the Customer for the periods during which the Company makes such tests, adjustments, or inspections.

The Company shall have no responsibility for the maintenance and repair of any kind with respect to equipment and facilities not provided by the Company. The Company will charge the Customer for any maintenance visits with respect to service problems which are determined to arise from equipment or facilities not provided by the Company.

2.1.6 Non-Routine Installations

At the Customer's request, installation and/or maintenance may be performed outside the Company's regular business hours or in hazardous locations. In such cases charges based on not less than the cost of actual labor, material, or other costs incurred by or charged to the Company will apply. If Installation is started during regular business hours but extends beyond regular business hours into time periods including, but not limited to, weekends, holidays, and/or night hours, additional charges may apply.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.1 Undertaking of the Company (Cont'd.)

2.1.7 Governmental Authorizations

The provision of services under this Tariff is subject to and contingent upon the Company obtaining and retaining such approvals, consents, governmental authorizations, licenses and permits, as may be required or be deemed necessary by the Company. The Company shall use reasonable efforts to obtain and keep in effect all such approvals, consents, authorizations, licenses and permits that may be required to be obtained by it. The Company shall be entitled to take, and shall have no liability whatsoever for, any action necessary to bring the services into conformance with any rules, regulations, orders, decisions, or directives imposed by the New Hampshire Public Utilities Commission or any other applicable agency, and the Customer shall fully cooperate in and take such action as may be requested by Company to comply with any such rules, regulations, orders, decisions or directives.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.2 Use of Service

2.2.1 Lawful Use

The service provided under this tariff shall not be used for an unlawful purpose.

2.2.2 Resale

In conformance with the regulations in this Tariff, a private reseller and a reseller offering service for public use as certified by the Commission's may receive service under the Company's Price Lists.

2.2.3 Access Service Connections

Equipment and systems (i.e., terminal equipment, multiline terminating systems and communications systems) may be connected with switched and special access service furnished by the Company where such connection is made in accordance with the provisions stated in Section 2 and in AS No. 1. A copy of AS No. 1 may be obtained from NECA, as specified in Section 1.2, preceding.

2.2.4 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 Company in the provision of such services.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.2 Use of Service (Cont'd.)

2.2.5 Minimum Periods of Service

- A. The minimum periods for which services are provided and for which rates and charges are applicable, except as otherwise specified is one month. In the case of specialized service or arrangement provided on an individual case basis, one month is the minimum period of service unless a different minimum period is established with the individual case basis.
- B. When a service is discontinued prior to the expiration of the minimum period, charges are applicable, whether the service is used or not. The applicable charge will be the total monthly charges at the rate in effect at the time service is discontinued, for the remainder of the minimum period plus all applicable NRCs.
- C. If the period of use exceeds one month, the charges for the fractional part of a month following and consecutive with a full month are proportionate part of the monthly charges, based on the actual number of days the service is furnished. For the purpose of determining charges for a fractional part of a month, every month is considered to have thirty (30) days.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.2 Use of Service (Cont'd.)

2.2.6 Provision of Equipment and Facilities

- A. Except as otherwise indicated, Customer-provided station equipment at the Customer's premises for use in conjunction with this service shall be so constructed, maintained and operated as to work satisfactorily with the facilities of the Company.
- B. The Company shall not be responsible for the installation, operation or maintenance of any Customer-provided communications equipment. Where such equipment is connected to service furnished pursuant to this tariff. The responsibility of the Company shall be limited to the furnishing of services under this tariff and to the maintenance and operation of such services in the proper manner. Subject to this responsibility, the Company shall not be responsible for:
  - 1. the through transmission of signals generated by Customer-provided equipment or for the quality of, or defects in, such transmission; or
  - 2. the reception of signals by Customer-provided equipment; or
  - 3. network control signaling where such signaling is performed by Customer-provided network control signaling equipment.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.3 Prohibited Use

- 2.3.1 The services the Company offers shall not be used for any unlawful purpose or for any use for which the Customer has not obtained all required governmental approvals, authorization, licenses, consents and permits.
- 2.3.2 The Company may require applicants for service who intend to use the Company's offering for resale and/or for shared use to file a letter with the Company confirming that their use of the Company's offerings complies with relevant laws and regulations, policies, orders, and decisions.
- 2.3.3 The Company may require a Customer to immediately shut down its transmission if such transmission is causing interference to others.
- 2.3.4 A Customer, joint user, or authorized user may not assign, or transfer in any manner, the service or any rights associated with the service without the written consent of the Company. The Company will permit a Customer to transfer its existing service to another entity if the existing Customer has paid all charges owed to the Company for regulated access services. Such a transfer will be treated as a disconnection of existing service and installation of new service, and non-recurring installation charges as stated in this tariff will apply.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.4 Responsibility of the Company

2.4.1 Scope

- A. The Company does not undertake to transmit messages under this tariff.
- B. The Company will for maintenance purposes, test its services only to the extent necessary to detect and / or clear troubles.
- C. The Company does not warrant that its facilities and services meet standards other than those set forth in this tariff.
- D. The provision of such services by the Company as set forth in this tariff does not constitute a joint undertaking with the Customer for the furnishing of any service.
- E. Signals applied to a metallic facility shall conform to the limitations set forth in AS No. 1. In the case of application of telegraph signaling systems, the Customer shall be responsible, at its own expense, for the provision of current limiting devices to protect the Company facilities from excessive current due to abnormal conditions and for the provision of noise mitigation networks when required to reduce excessive noise.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.4 Responsibility of the Company (Cont'd)

2.4.2. Liability

- A. The liability of the Company for damages arising out of the furnishing of its Services, including but not limited to mistakes, omissions, interruptions, delays, or errors, or other defects, representations, or use of these services or arising out of the failure to furnish the service, whether caused by acts or omission, shall be limited to the extension of allowances for interruption as set forth in Section 2.11. The extension of such allowances for interruption shall be the sole remedy of the Customer and the sole liability of the Company.
- B. The Company will not be liable for any direct, indirect, incidental, special, consequential (including lost revenue or profits), exemplary or punitive damages to Customer as a result of any Company service, equipment or facilities, or the acts or omissions or negligence of the Company's employees or agents.
- C. The Company shall not be liable for any delay or failure of performance or equipment due to causes beyond its control, including but not limited to: acts of God, fire, flood, explosion, vandalism, cable cut or other catastrophes; any law, order, regulation, direction, action, or request of the United States Government, or of any other government, including state and local governments having or claiming jurisdiction over the Company, or of any department, agency, commission, bureau, corporation, or other instrumentality of any one or more of these federal, state, or local governments, or of any civil or military authority; national emergencies; insurrections; riots; wars; unavailability of rights-of-way or materials; or strikes, work stoppages, or other labor difficulties.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.4 Responsibility of the Company (Cont'd)

2.4.2 Liability of the Company (Cont'd.)

- H. The Company shall be indemnified, defended and held harmless by the Customer against any claim, loss or damage arising from Customer's use of services, involving claims for libel, slander, invasion of privacy, or infringement of copyright or unauthorized use of trademark, trade name, or service mark arising out of material, data, information or other content transmitted over the Company's Facilities.
- I. The Customer shall indemnify, defend, hold harmless the Company against claims of patent infringement arising from combining or connecting the Company's facilities or equipment with facilities equipment, apparatus or systems of a Customer.
- J. The Customer shall indemnify, defend, hold harmless the Company against all other claims (including without limitation, claims for damage to any other business or property or injury to or death of any person) arising out of any act or omission of the Customer, the Customer's agents or Authorized Users in connection with any service or facilities or equipment provided by the Company.
- K. THE COMPANY MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, EXCEPT THOSE EXPRESSLY SET FORTH HEREIN.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.4 Responsibility of the Company, (Cont'd)

2.4.3. Provision of Service

- A. The use, installation and restoration of services shall be in accordance with Part 64.401, Appendix A, of the FCC's Rules and Regulations, which specifies the priority system for such activities. Subject to the compliance with those rules, where a shortage of facilities or equipment exists at any time, either for temporary or protracted periods, the services offered herein will be provided to Customers on a first-come, first-served basis.
- B. The services offered under the provisions of this tariff are subject to availability. The Company, to the extent that such services are or can be made available with reasonable effort; and after provision has been made for the Company's telephone exchange services, will provide to the Customer upon reasonable notice services offered in other applicable sections of this tariff at the rates and charges specified therein.
- C. Services are provided Twenty-Four (24) hours daily, seven (7) days per week, except as set forth in other applicable sections of this tariff.

2.4.4. The Point of Termination of Service

The Access Services provided under this tariff include Company communications facilities up to the point of termination, which denotes the demarcation point, and will be installed by the Company to such point of termination. If the point of termination is moved subsequent to the original installation, move charges apply as appropriate as defined in Section 5 of this Tariff. Any additional terminations at the Customer premises beyond such point of termination are the sole responsibility of the Customer.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.5 Customer Notification and Coordination

2.5.1 Changes and Substitutions

- A. Except as provided for equipment and systems subject to FCC Part 68 rules in 47 C.F.R. Section 68.110.(b), the Company may, where such action is reasonably required in the operation of its business perform the following actions.
1. Substitute, change or rearrange any facilities used in providing service under this tariff, including but not limited to the following:
    - a. Substitution of different metallic facilities;
    - b. Substitution of carrier or derived facilities for metallic facilities used to provide other than metallic facilities; and
    - c. Substitution of metallic facilities for carrier or derived facilities used to provide other than metallic facilities.
  2. Change in minimum protection criteria.
  3. Change in operating or maintenance characteristics of facilities.
  4. Change in operations or procedures of the Company.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.5 Customer Notification and Coordination (Cont'd)

2.5.1 Changes and Substitutions (Cont'd.)

- B. In the case of any such situation, change or rearrangement, the transmission parameters will be within the range specified for the individual services involved. The 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 Customer will be given adequate notice in writing. Reasonable time will be allowed for any design and implementation required by the change in operating characteristics. The Company will work cooperatively with the Customer to determine reasonable notification requirements.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.5 Customer Notification and Coordination (Cont'd.)

2.5.2 Refusal and Discontinuance of Service

- A. Unless the provision of Section 2.5.5.B or Section 2.2.3, apply, if the Customer fails to comply with Section 2.6, including any payments to be made by it on the dates and times herein specified, the Company may, on Thirty (30) Days written notice by US Certified Mail to the person designated by the Customer to receive such notices of noncompliance, refuse additional applications for the service and / or refuse to complete any pending orders for service at any time thereafter. If the Company does not refuse additional applications for service in the date specified in the Thirty (30) Day's notice, and the Customer's noncompliance continues, nothing contained herein shall preclude the Company's right to refuse additional applications for service without further notice.
  
- B. Unless the provisions of Section 2.5 or 2.2.3, apply, if the Customer fails to comply with Section 2.6, including any payments to be made by it on the dates and times herein specified, the Company may, on Thirty (30) days written notice by Certified Mail to the person designated by the Customer to receive such notices of noncompliance, discontinue the provision of the services involved on the date specified in the Thirty (30) Days notice, and the Customer's noncompliance continues, nothing contained herein shall preclude the Company's right to discontinue the provision of the services involved without further notice.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.5 Customer Notification and Coordination (Cont'd.)

2.5.3 Service affective Activities.

A. The Company will provide the Customer timely notification of service affecting activities that may occur in normal operation of its business. Generally, such activities are not individual Customer service specific; they affect many Customer services. No specific advance notification period is applicable to all service activities. The Company will work cooperatively with the Customer to determine the reasonable notification requirements. With some emergency or unplanned service affecting conditions, such as an outage resulting from cable damage, notification to the Customer may not be possible. Such activities may include, but are not limited to the following activities.

1. Equipment or facilities additions,
2. Removals or rearrangements,
3. Routine and preventative maintenance,
4. Major Switching machine change out.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.5 Customer Notification and Coordination (Cont'd.)

2.5.4. Provision of Ownership of Telephone Numbers

- A. The Company reserves the right to assign, designate or change telephone numbers, any other call number designations associated with access services, or the Company serving central office prefixes associated with such numbers, when necessary in the conduct of its business.
- B. Should it become necessary to make a change in such number(s), the Company will furnish to the Customer six months notice, by Certified US Mail, of the effective date and an explanation of the reason(s) for such changes.
  - 1. In the case of emergency situations, (e.g., a fire in the wire center), it may be necessary to change a telephone number without six months notice in order to provide service to the Customer.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.5 Customer Notification and Coordination (Cont'd.)

2.5.5 Interference or Impairments

- A. The Characteristics and methods of operation of any circuits, facilities or equipment provided by any entity other than the Company and associated with the facilities utilized to provide services under this tariff shall not: (a) interfere with or impair service over any facilities of the Company, affiliated companies or its connecting or concurring carriers involved in its services, (b) cause damage to their plant, (c) impair the privacy of any communications carried over Company facilities or create hazards to the employees of any of them or the public.
- B. Except as provided for equipment or systems subject to the FCC Part 68 rules in 47 C.F.R. 68.108, if such characteristics or methods of operation are not in accordance with the preceding paragraph, the 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, nothing contained herein shall be deemed to preclude the Company's right to temporarily discontinue forthwith the use of a service if such action is reasonable under the circumstances.
  - 1. In case of such temporary discontinuance, the Customer will be promptly notified and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance.
  - 2. During such period of temporary discontinuance, credit allowance for service interruptions is not applicable, as specified in Section 2.11.2, following.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6 Responsibilities of the Customer

2.6.1 Scope

- A. The services provided under this tariff shall be maintained by the Company. The Customer or others may not rearrange, move, disconnect, remove, or attempt to repair any facilities provided by the Company, other than by connection or disconnection to any interface means used, except with the written consent of the Company.
- B. The Customer may not assign or transfer the use of services provided under this tariff; however, where there is no interruption of use or relocation of the services, such assignment or transfer may be made to the following individual(s) or parties.
  - 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
  - 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.
- C. In all cases of assignment or transfer, the written acknowledgment of the Company is required prior to such assignment or transfer which acknowledgment shall be made within fifteen (15) days from the receipt of notification. All regulations and conditions contained in this tariff shall apply to such assignee or transferee.
- D. The assignment or transfer of services does not relieve or discharge the assignor or the transferor from remaining jointly or severally liable with the assignee or transferee for any obligations existing at the time of the assignment or transfer.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6 Responsibilities of the Customer (Cont'd.)

2.6.2 Liability of the Customer

- A. The Customer shall pay all applicable charges as set forth in this tariff.

The Customer is responsible for any damage to or loss of the Company facilities or equipment caused by the acts or omissions of Customer, authorized user or joint user as defined by these regulations, unless caused by the negligence or willful misconduct of the employees or agents of the Company.

- B. The Customer shall reimburse the Company for damages to the 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 Company's facilities, or due to malfunction of any facilities or equipment provided by other than the Company. The 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 Company for the damages to the extent of such payment.

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

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6 Responsibilities of the Customer (Cont'd.)

2.6.2 Liability of the Customer

- D. The Customer shall defend, indemnify and hold harmless the Company from and against all law suits, claims, losses or damages including punitive damages, attorney's 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 Company's services provided under this tariff, including without limitation Workmen's Compensation claims, actions for infringement of copyright and / or unauthorized use of program material, libel and slander actions based on 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 tortuous conduct of the Customer, its officers, agents or employees.
  
- E. The Customer shall defend, indemnify and hold harmless the 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 or omission of the Customer in the course of using services provided under this tariff.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6 Responsibilities of the Customer (Cont'd.)

2.6.3 Equipment Space and Power

- A. The Customer shall make available to Company such space, power, environmental, conditioning and other resources at Customer's premises as Company shall request for the provisioning of services offered under this tariff. Customer shall provide the necessary equipment space, conduit, electrical power and suitable environmental conditions required to provide the services, as specified by the Company, at each Customer termination point, without charge or cost to the Company. Customer agrees to return such equipment and wiring to Company at the expiration of the applicable term in its original condition, ordinary wear and tear excepted. Customer shall bear the risk of any loss or damage to Company's equipment or wiring located at on Customer's premises, except where such loss or damage is caused by Company. Customer shall be responsible for insuring that the equipment, wiring, space and associated facilities, conduit and rights-of-way are protected against, fire, theft, vandalism or other casualty, and that the use thereof complies with the applicable laws, rules and regulations and with all applicable lease or other contractual agreements. Company shall install such wiring and equipment as reasonably directed by Customer to comply with lease or other contractual obligations to which Customer is a party.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6 Responsibilities of the Customer (Cont'd.)

2.6.3 Equipment Space and Power (Cont'd.)

- B. Customer shall provide a safe place to work which complies with all laws and regulations along the rights-of-way and in the equipment spaces which it is responsible for obtaining, and at which Company authorized personnel, employees, or agents may be installing, inspecting, maintaining, replacing, repairing or removing facilities and equipment.
- C. Customer shall arrange access to any of the rights-of-way, conduit, and equipment space which it is responsible for obtaining at any time so that Company's authorized personnel, employees, or agents may install, repair, maintain, inspect, replace or remove any and all facilities and associated equipment provided by Company. Access to such sites shall be made available at a time mutually agreeable to Customer and Company. Customer acknowledges that, when repair work is required to restore services after interruption, it may be necessary to provide access on a twenty-four (24) hour, seven (7) day a week basis. Company shall also have the right to obtain access to the cable installed in Customer provided conduit at any place or junction box. No credit allowance under Section 2.11, will be made for the period during which service is interrupted for such purposes.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6 Responsibilities of the Customer (Cont'd.)

2.6.4 Ownership of Facilities and Theft

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

2.6.5 Availability for Testing

The services under this tariff shall be available to the Company at times mutually agreed upon in order to permit the Company to make tests, adjustments appropriate for maintaining the services in satisfactory operating condition. Such tests and adjustments shall be completed within a reasonable time. No credit allowance will be allowed for any interruptions involved during such tests and adjustments.

2.6.6 Coordination with Respect to Network Contingencies.

The Customer shall, in cooperation with the Company, coordinate in planning the actions to be taken to maintain maximum network capability following natural or manmade disasters which affect telecommunications services.

2.6.7 Balance

All signals for transmission over the services provided under this tariff shall be delivered by the Customer balanced to ground except for ground start, duplex (DX) and McCulloh Loop (alarm system) type signaling and dc telegraph transmissions at speeds of 75 baud or less.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6. Responsibilities of the Customer (Cont'd.)

2.6.8. Design of Customer Services

Subject to the provisions of Section 2.5.1, preceding, the Customer shall be solely responsible, at its own expense for overall design of its services and for any redesigning or rearrangement of its services which may be required because of a change of facilities, operations or procedures; however, the Customer shall not represent that the Company jointly participates in the Customer's service.

2.6.9. References to the Company

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

2.6.10. Jurisdictional Report Requirements

- A. For purposes of implementation, the Customer is required to update their jurisdictional report in conformance with regulations contained herein, for the impending effective quarter.
- B. The Customer is required in accordance with the following regulations, to report projected and actual switched access services Percentages of Interstate Usage (PIUs) to the Company unless specified otherwise in the regulations that follow.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6 Responsibilities of the Customer (Cont'd.)

2.6.10 Jurisdictional Report Requirements (Cont'd.)

- C. For purposes of developing and reporting Percentages of Interstate Use, the Customer shall consider every call that enters the Customer's network (either directly or indirectly) at a point in a state different from the state in which the called station is located to be interstate. The Customer shall consider every call that enters the Customer's network (directly or indirectly) at a point within the same state as that which the called party is located to be intrastate.
- D. The Customer is responsible for reporting percentages of interstate use by feature group, by traffic type (as defined in Section 1.3) and by service access code (including but not limited to 700 Service Access Code, 800 and 900 Access Service).
  - 1. Percentages of Interstate Use are to be reported by the Customer in whole numbers. The whole number percentages will be used by the Company to apportion the use, rates and / or NRCs between interstate and intrastate jurisdictions.
- E. From the projected PIU, the Company will determine the projected percentage of intrastate use originating by subtracting the projected PIU originating from 100, and determine the projected percentage of intrastate use terminating, by subtracting the projected PIU terminating from 100.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6 Responsibilities of the Customer (Cont'd.)

2.6.10 Jurisdictional Report Requirements (Cont'd.)

- F. In the event that the projected PIUs provided by the Customer when ordering service changes prior to the date upon which the Company provides that a service to the Customer, the Customer shall report the PIU change(s) to the Company prior to service completion.
- G. The Customer must also provide an interstate percentage of use for entrance facilities and direct trunked transport facilities.
  - 1. PIU's are to be reported by the Customer in whole numbers
  - 2. At the Customer's option, separate PIU's may be provided for each entrance facility and the direct trunked transport facility ordered.
  - 3. When an entrance facility and a direct trunked transport facility are ordered at the same time as one physical facility, the Customer has the option of providing only one PIU to the Company.
  - 4. The Customer has the option of providing one PIU for entrance facilities and direct trunked transport facilities per LATA. The PIU for the LATA must be provided for each entrance facility and / or direct trunked transport facility when the Customer places the order for service.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6 Responsibilities of the Customer (Cont'd.)

2.6.10 Jurisdictional Report Requirements (Cont'd.)

H. Changes in PIUs - subsequent to the Customer's reports at the time of ordering Switched Access Service, the Customer is required to report to the Company any change in projected PIU and shall report such change to the Company on a quarterly basis. The Customer shall report such changes effective the first day of January, April, July and October.

1. The Customer shall forward the revised report so that it is received by the Company no later than the 21<sup>st</sup> day of January, April, July and October.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6 Responsibilities of the Customer (Cont'd.)

2.6.10 Jurisdictional Report Requirements (Cont'd.)

- I. In addition to the preceding regulations, the following service specific reporting requirements apply.
  - 1. When a Customer projected interstate percentage of originating and terminating Feature Group D, the Customer shall provide the PIU for each FGD Tandem.
  - 2. The Customer's reported PIU of Feature Group D used for 800 and / or 900 service shall identify on a further separated basis, originating usage which terminates on a common line.
  
- J. The intrastate access minutes for a group will be billed as set forth in Section 2.6.10.K. The projected interstate percentages of use and intrastate percentages of use will be used to determine the charges as specified in Sections 2.6.10.J.1 and 2.6.10.J.2.
  - 1. The number of originating access minutes for a group will be multiplied by the projected interstate percentage of originating use to determine the originating interstate access minutes. The number of originating interstate access minutes so determined will be subtracted from the total number of originating access minutes for the group to determine the originating intrastate access minutes.
  - 2. The number of terminating access minutes for a group will be multiplied by the projected interstate percentage of terminating use to determine the terminating interstate access minutes. The number of terminating interstate access minutes so determined will be subtracted from the total number of terminating interstate access minutes for the group to determine the terminating intrastate access minutes.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.6 Responsibilities of the Customer (Cont'd)

2.6.10 Jurisdictional Report Requirements (Cont'd.)

- K. Jurisdictional Audits - The Customer shall keep sufficient detail from which the percentages of interstate use for all feature groups and other applicable services can be ascertained and upon request of the Company make such records available for inspection and audit. The audit shall be performed by an independent party as authorized by the Company. Such a request will be initiated by the Company no more than once per year. The Customer shall supply the data within 30 calendar days of the Company's request.
  
- L. When a Customer orders CCSA, the Customer shall state in its order the projected interstate percentage of use in a whole number (a number of 0 to 100). The Company will designate the number obtained by subtracting the projected interstate percentage furnished by the Customer from 100 as the projected intrastate percentage of use.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.7 Interconnection of Facilities

2.7.1 Interconnection of Facilities

- A. In order to protect the Company's facilities and personnel and the services furnished to other Customers by the Company from potentially harmful effects, the signals applied to the Company's service shall be such as not to cause damage to the facilities of the Company. Any special interface equipment necessary to achieve the compatibility between facilities of the Company and the channels or facilities of others shall be provided at the Customer's expense.

2.7.2 Inspections

- A. The Company may, upon notification to the Customer, at a reasonable time, make such tests and inspections as may be necessary to determine that the requirements regarding the equipment and interconnections are being complied with the installation, operation and maintenance of Customer-provided equipment and in the wiring of the connection of Customer channels to Company-owned facilities.
- B. If the protective requirements in connection with Customer-provided equipment are not being complied with, the Company may take such action as necessary to protect its facilities and personnel and will promptly notify the Customer by registered mail in writing of the need for protective action. In the event that the Customer fails to advise the Company within ten (10) days after such notice is received or within the time specified in the notice that corrective action has been taken, the Company may take whatever additional action is deemed necessary, including the suspension of service, to protect its facilities and personnel from harm. The Company will, upon request twenty-four (24) hours in advance, provide the Customer with a statement of technical parameters that the Customer's equipment must meet.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.8 Customer Deposits and Advance Payments

2.8.1 Advance Payments

The Company may require a Customer to make an advance payment before services and facilities are furnished. The advance payment will not exceed an amount up to two (2) months of estimated monthly usage charges. In addition, where special construction is involved, the advance payment may also include an amount equal to the estimated non-recurring for the special construction and recurring charges (if any) for a period to be set between the Company and the Customer. The advance payment will be credited to the Customer's initial bill. An advance payment may be required in addition to a deposit.

2.8.2 Deposits

- A. To safeguard its interests, the Company may require a Business Customer to make a deposit to be held as a guarantee for the payment of charges. A deposit does not relieve the Customer of the responsibility for the prompt payment of bills on presentation. The deposit will not exceed an amount equal to:
1. two month's charges for a service or facility which has a minimum payment period of one month; or
  2. the charges that would apply for the minimum payment period for a service or facility which has a minimum payment period of more than one month; except that the deposit may include an additional amount in the event that a termination charge is applicable.
- B. A deposit may be required in addition to an advance payment.
- C. When a service or facility is discontinued, the amount of a deposit, if any, will be applied to the Customer's account and any credit balance remaining will be refunded. Before the service or facility is discontinued, the Company may, at its option, return the deposit or credit it to the Customer's account.
- D. Deposits held will accrue interest at the rate specified in accordance with Chapter 870 of the New Hampshire Public Utilities Law. Deposits shall equal the one-year certificate of deposit rate published in the Wall Street Journal on November 1, or the next date of publication, rounded to the nearest tenth percent (0.10%). Interest will not accrue on any deposit after the date on which reasonable effort has been made to return it to the Customer.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9. Payment Arrangements

2.9.1 Payment for Service

The Customer is responsible for payment of all charges for facilities and services furnished by the Company.

A. Taxes

The Customer is responsible for payment of any sales, use, gross receipts, excise, access or other local, state and federal taxes, charges or surcharges (excluding axes on the Company's net income), however designated, imposed on or based upon the provision, sale or use of the Telephone Company's services.

2.9.2 Billing and Collection of Charges

The Customer is responsible for payment of all charges incurred by the Customer or other users for services and facilities furnished to the Customer by the Telephone Company.

A. Non-recurring charges are due and payable within thirty (30) days after the date of the invoice.

B. The Company shall present invoices for Recurring Charges monthly to the Customer, in advance of the month in which service is provided, and Recurring Charges shall be due and payable within thirty (30) days after the date of invoice. When billing is based upon Customer usage, usage charges will be billed monthly for the preceding billing period.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9 Payment Arrangements (Cont'd.)

2.9.2 Billing and Collection of Charges (Cont'd.)

- C. When service does not begin on the first day of the month, or end on the last day of the month, the charge for the fraction of the month in which service was furnished will be calculated on a pro rated basis. For this purpose, every month is considered to have thirty (30) days.
- D. Billing of the Customer by the Company will begin on the Service Commencement Date, which the day on which the Company notifies the Customer that the service or facility is available for use, except that the Service Commencement Date may be postponed by mutual agreement of the parties, or if the service or facility does not conform to standards set forth in this tariff or the Service Order. Billing accrues through and includes the day that the service, circuit, arrangement or component is discontinued.
- E. All Customer bills are due and payable when presented. The bill becomes past due no less than thirty (30) days after postmarked. Once a bill is past due, the carrier may proceed with collection activities per Chapter 86, and a late payment fee calculated at a monthly rate not to exceed the rate specified in Chapter 870 as updated annually by the Commission's Director of Finance, on the undisputed past dues amount.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9. Payment Arrangements (Cont'd.)

2.9.3 Refusal or Discontinuance by the Company

Service continues to be provided until canceled by the Customer, in writing, or until discontinued by the Company as set forth below. The Company may render bills subsequent to the termination of service for charges incurred before termination.

The Company may refuse or discontinue service under the following conditions provided that, unless otherwise stated, the Customer shall be given seven (7) days notice to comply with any rule or remedy any deficiency:

The Company may refuse or discontinue service to Customers for any of the following reasons:

- A. For noncompliance with or violation of any state, municipal, or federal law, ordinance or regulation pertaining to telephone service.
- B. For noncompliance with or violation of Commission regulation or The Company's rules and regulations on file with the Commission.
- C. Without notice by reason of any order or decision of a court or other government authority having jurisdiction which prohibits Company from furnishing such services.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9. Payment Arrangements (Cont'd.)

2.9.3 Refusal or Discontinuance by the Company (Cont'd.)

- D. For failure of the Customer to make proper application for service or for use of telephone service for any other property or purpose than that described in the application.
- E. Without notice in the event of tampering with the equipment or services owned by The Company or its agents.
- F. Without notice in the event of Customer use of equipment or services in such a manner as to adversely affect the Company's equipment or the Company's service to others.
- G. For neglect or refusal to provide reasonable access to the Company or its agents for the purpose of inspection and maintenance of equipment owned by the Company or its agents.
- H. For nonpayment of bills, provided that suspension or termination of service shall not be made without Fifteen (15) days written notice to the Customer and in accordance with applicable law. The Customer whose check or draft is returned unpaid for any reason, after two attempts at collection, shall be subject to discontinuance of service.
- I. Without notice for unauthorized or unlawful use of Travel Service numbers and Authorization Codes. Travel Service numbers and Authorization Codes are issued only by the Company to the Customer and may not be sold or otherwise distributed without the written consent of the Company.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9. Payment Arrangements (Cont'd.)

2.9.3 Refusal or Discontinuance by the Company (Cont'd.)

- J. Without notice in the event of any other unauthorized or fraudulent use of service. Whenever service is discontinued for fraudulent use of service, The Company may, before restoring service, require the Customer to make, at his or her own expense, all changes in facilities or equipment necessary to eliminate illegal use and to pay an amount reasonably estimated as the loss in revenues resulting from such fraudulent use.
- K. For Customer's breach of contract for service between the Company and the Customer.

2.9.4 Notice to Company for Cancellation of Service

Customers, not receiving service pursuant to a term agreement with the Company, who desire to terminate service shall provide Company thirty (30) days written notice of desire to terminate service.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9. Payment Arrangements (Cont'd.)

2.9.5 Ordering, Rating and Billing of Access Services Where More Than One Exchange Company is Involved

Meet point billing applies when more than one Exchange Company is involved in the provision of Access Service. All recurring and nonrecurring charges for services provided by each Exchange Company are billed under each company's applicable rates as set forth in Section 9, following.

The Company accepts and adheres to the Ordering and Billing Forum guidelines, Multiple Exchange Carrier Access Billing (MECAB) and Multiple Exchange Carrier Ordering and Design (MECOD).

The Company will handle ordering, rating and billing of Access Services under this tariff where more than one Exchange Company is involved in the provision of Access Service as follows.

For Feature Group D Switched Access Service, when service is jointly provided by more than one Exchange Company, the Customer must supply a copy of the order to each Exchange Company involved in providing the service.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9 Payment Arrangements (Cont'd.)

2.9.5 Ordering, Rating and Billing of Access Services Where More Than One Exchange Company is Involved (Cont'd.)

Each Exchange Company will provide the portion of Local Transport to an interconnection point (IP) with another Exchange Company, and will bill the charges in accordance with its Access Service tariff for either Single Bill/Multiple Tariff arrangements or Multiple Bill/Multiple Tariff arrangements. For Single Bill/Single Tariff arrangements the Company will either bill the charges in accordance with its Access Service Tariff or agree to bill the Access Service charges of the interconnecting Exchange Company. The rate for the Transport elements will be determined as set forth in Section 9, following. All other appropriate charges in each Exchange Company tariff are applicable.

The charge for the Switched Access Local Transport Facility element for services provided as set forth in Section 9, following are determined as follows:

- A. Determine the appropriate Switched Access Local Transport Facility mileage by computing the airline mileage between the two ends of the Local Transport Facility. Determine the airline mileage for the Local Transport Facility Charge using the V&H method as set forth in Section 2.10.2, following.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9 Payment Arrangements (Cont'd.)

2.9.5 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved (Cont'd.)

B. For Feature Group D Switched Access Service, the Local Transport Facility and Termination charges are determined by using the steps set forth in (1) through (3) following for the total Local Transport-Common Switched Transport charges.

1. Multiply:

The number of access minutes by the number of airline miles as determined in (A) preceding by the Company's appropriate Local Transport Facility per mile per access minute rate by the Company's billing percentage factor.

2. Multiply:

The number of access minutes by the Company's appropriate Local Transport Termination per minute rate. The resulting amount is the Company's total Local Transport Termination charge.

3. Add:

The products of (1) and (2) for the Company's total Local Transport-Common Switched Transport charges.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9 Payment Arrangements (Cont'd.)

2.9.5 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved (Cont'd.)

C. The charge for the Direct Trunked Transport-Facility Mileage rate element for services provided as set forth in SECTION 9, preceding is determined as follows:

1. Determine the appropriate Switched Access Direct Trunked Transport-Facility mileage by computing the airline mileage between the two ends of the Direct Trunked Transport-Facility. Determine the airline mileage for the Direct Trunked Transport-Facility charge using the V&H method as set forth in Section 2.10.2, following.
2. For Feature Group D Switched Access Service, the Direct Trunked Transport-Facility Mileage charge is determined by using the procedure set forth below:

Multiply:

The number of airline miles as determined in (1) preceding by the Company's appropriate Direct Trunked Transport-Facility per mile rate

Add:

The Company's appropriate Direct Trunked Transport-Facility fixed mile rate

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9 Payment Arrangements (Cont'd.)

2.9.5 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved (Cont'd.)

D. For Feature Group D.

1. For originating or terminating access traffic at a company operated end office, the Interconnection Charge is calculated by multiplying that rate times the number of originating and terminating access minutes that are switched at the end office.
2. For Entrance Facility equipment operated by the Company, the Entrance Facility and/or Multiplexing charge will apply.
3. The Billing Percentage (BP) is not applicable to the Interconnection charge, Entrance Facility or Multiplexer.

E. The interconnection points will be determined by the Exchange Telephone Companies involved. The billing percentage (BP) factor for the Company for the service between the involved offices will be listed in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5, except as noted in 2.9.6.F., below.

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ACCESS SERVICES

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9 Payment Arrangements (Cont'd.)

2.9.5 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved (Cont'd.)

- F. Until the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5 is revised to include the following meet points for jointly provided transport to the Company's host switch, the following applicable billing percentage factors for such transport over Feature Group B or D Switched Access Service traffic apply:

CLLI	COMPANY CODE	BP
PTLDMEFOHAP	3370	0
PTLDMEFODS0	5111	100

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.9 Payment Arrangements (Cont'd.)

2.9.5 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved (Cont'd.)

- G. Should any changes be made to the meet point billing arrangements as set forth in Section 2.9.5.B preceding, the Company will give affected Customers thirty (30) days' notice.
- H. Should the Company act as an intermediate, non-terminating local exchange carrier, Common Transport Termination rates, as determined in Section 2.9.5.B preceding, will not be applied to the meet point billing arrangement.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.10 Application of Rates

The regulations set forth in this section govern the application of rates for services contained in other section of this tariff.

2.10.1 Charges Based On Duration of Use

Originating and terminating calls will be measured by the Company to determine the basis for computing chargeable access minutes.

2.10.2 Rates Based Upon Distance

Where the charges for service are specified based upon distance, the following rules apply:

- A. Distance for jointly provided transport would be calculated between the subtending tandem and the Company's host switch. In instances where the host switch is located inside a rate center, as defined, by the Incumbent Local Exchange Carrier, normally served by a different serving wire center, the distance between the host switch and the serving wire center normally associated with that rate center also applies and is measured as airline distance between the Company's host switch and the serving wire center serving that rate center.

The serving wire center is a set of geographic coordinates as referenced in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC NO. 5. Associated with the serving wire centers are NPA-NXX combinations (where NPA is the area code and NXX is the first three digits of a seven-digit telephone number). The NPA NXX combinations. Except that, until the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5 is revised to include certain Company wire centers and remote service areas, the airline distance should be determined utilizing the following "V" (vertical) and "H" (horizontal) coordinates:

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.10 Application of Rates (Cont'd.)

2.10.2 Rates Based Upon Distance (Cont'd.)

B. The airline distance between any two wire centers is determined as follows:

1. Obtain the "V" and "H" coordinates from the above-referenced NECA tariff.
2. Compute the difference between the "V" coordinates of the two wire centers; and the difference between the two "H" coordinates.
3. Square each difference obtained in step (2) above.
4. Add the square of the "V" difference and the square of the "H" difference obtained in step (3).
5. Divide the sum of the squares by 10. Round to the next higher whole number if any fraction is obtained.
6. Obtain the square root of the whole number result obtained above. Round to the next higher whole number if any fraction is obtained. This is the airline mileage.

Formula:

$$\sqrt{\frac{|V_1 - V_2|^2 + |H_1 - H_2|^2}{10}}$$

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.11 Allowances for Interruptions in Service

Interruptions in service, which are not due to the negligence of, or noncompliance with the provisions of this tariff by, the Customer or the operation or malfunction of the facilities, power or equipment provided by the Customer, will be credited to the Customer as set forth in 2.6.1 for the part of the service that the interruption affects.

2.11.1 Credit for Interruptions

- A. When service is interrupted for a period of at least 24 hours after notice by the Customer to the Company, an allowance equal to 1/30 of fixed billing cycle charges for services and facilities furnished by the Company rendered useless or substantially impaired shall apply to each 24 hours during which the interruption continues after notice by the Customer to the Company. Credit in any billing period shall not exceed the total non-usage charges for that period for the services and facilities furnished by the Company rendered useless or substantially impaired.
1. The word "interruption" shall mean the inability to complete calls due to equipment malfunctions or human errors. "Interruption" does not include, and no allowance shall be given for, service difficulties such as slow dial tone, circuits, busy or other network and/or switching capacity shortages. Nor shall "interruption" include the failure of any service or facilities provided by a common carrier or other entity other than the Company. Nor shall the interruption allowance apply where service is interrupted by the negligence or willful act of the Customer, or where the Company, pursuant to the terms of this tariff, terminates service because of non-payment of bills or deposits due to the Company, unlawful or improper use of the Company's facilities or service, or any other reason covered by this tariff or by applicable law.
  2. No allowance shall apply to any non-recurring or usage charges.

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.11 Allowances for Interruptions in Service (Cont'd.)

2.11.2 Limitations on Allowances

No credit allowance will be made for:

- A. interruptions due to the negligence of, or noncompliance with the provisions of this tariff by, the Customer, authorized user, joint user, or other common carrier providing service connected to the service of the Company;
- B. interruptions due to the negligence of any person other than the Company, including but not limited to the Customer or other common carriers connected to the Company's facilities;
- C. interruptions due to the failure or malfunction of non-Company equipment;
- D. interruptions of service during any period in which the Company is not given full and free access to its facilities and equipment for the purpose of investigating and correcting interruptions;
- E. interruptions of service during a period in which the Customer continues to use the service on an impaired basis;
- F. interruptions of service during any period when the Customer has released service to the Company for maintenance purposes or for implementation of a Customer order for a change in service arrangements; and
- G. interruption of service due to circumstances or causes beyond the control of Company.

**CTC Communications Corp.**  
**d/b/a EarthLink Business**  
1170 Peachtree Street NE, Suite 900  
Atlanta, GA 30309  
Issued By: Vice President, Tax

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**SECTION 2 - GENERAL REGULATIONS (CONT'D.)**

2.11 Allowances for Interruptions in Service (Cont'd.)

2.11.3 Cancellation For Service Interruption

Cancellation or termination for service interruption is permitted only if any circuit experiences a single continuous outage of 8 hours or more or cumulative service credits equaling 16 hours in a continuous 12-month period. The right to cancel service under this provision applies only to the single circuit which has been subject to the outage or cumulative service credits.

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**SECTION 3 - CARRIER COMMON LINE**

3.1 General

3.1.1 Description

- A . Where the Customer has obtained switched access service as set forth in Section 6, following, the use of end users' Company provided common lines is necessary in order for the Customer to access end users to furnish intrastate communications. Carrier Common Line Access Service provides that function. Carrier Common Line Access also provides for the use of switched access service originating from a WAL.
1. Where the Customer is provided with switched access service under this tariff, the Company will provide the use of Company common lines by a Customer for access to end users.
    - a. All line side connections provided in the same access group will be limited to the same features and operating characteristics.
    - b. All Trunk side connections provided in the same access group will be limited to the same features and operating characteristics.
    - c. A telephone number is not provided with carrier common line access.
    - d. Detail billing is not provided with carrier common line access.
    - e. Directory listings are not included in the rates and charges for carrier common line.
    - f. Intercept arrangements are not included in the rates and charges for carrier common line access.

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**SECTION 3 - CARRIER COMMON LINE (CONT'D.)**

3.2 Responsibility of the Customer

3.2.1. Reselling MTS / MTS Type Service

A. 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 shall obtain FGB or FGD service for originating and / or terminating access in the local exchange.

1. Such access groups arrangements whether single lines or trunks or multiline hunt groups or trunk groups will have carrier common line access charges applied.

3.2.2. Customer Facilities

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

3.2.3. Billing Dispute

A. If a billing dispute arises concerning the Customer provided monthly of originating 800 and / or 900 access, as specified in Section 3.4.1; the Company will request not more than once a year, that the Customer provide the Company the data used to develop the report, within 30 days of the Company's request.

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**SECTION 3 - CARRIER COMMON LINE (CONT'D.)**

3.3 Application of Rates of Charges

3.3.1 Description

- A. The carrier common lines access rates and charges apply to intrastate switched access service access minutes in accordance with the rate regulations as set forth in this section. The access minutes for all switched access subject to carrier common line charges will be multiplied by the per minute rate to determine the charges.
  - 1. The originated per minute charge(s) apply to all originating access minutes of use.
  - 2. The terminating per minute charge(s) apply to all terminating access minutes of use.
  - 3. In the eastern and western LATAs, carrier common line access charges, except for 800 and 900 access services minutes, are subject to time differentiated rating based in a peak or off-peak schedule as set forth in Section 6.6.4, following.
- B. When access to the local exchange is required to provide a Customer service (e.g., MTS / WATS - type, telex, Data, etc. . .) that uses resold Interexchange Carrier's private line service, switched access service rates and regulations 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 apply.
- C. The common channel signaling access STP link termination and STP port, as set forth in Section 6, following, are not subject to a carrier common line charge.

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**SECTION 3 - CARRIER COMMON LINE (CONT'D.)**

3.3 Application of Rates of Charges (Cont'd.)

3.3.1 Determination of Charges,

- A. When carrier common line access is provided in association with the FGB service in Company offices that are not equipped for measurement capabilities, assumed average intrastate access minutes will be used to determine carrier common line access charges.
- B. When actual access minutes Are used to determine carrier common line chargers they will accumulated using call detail recorded by the Company equipment.
  - 1. The Company measuring and recording equipment will be associated with end office or local tandem switching equipment and will record originating access minutes and terminating access minutes where answer supervision is received.
  - 2. The accumulated access minutes will be summed in a line by line basis, by line group or end office, which ever type of account is used by the Company, for each Customer and then rounded to the nearest minute.
- C. Apportionment - When the Customer reports interstate and intrastate use of switched access service, the carrier common line access minutes developed by the Company, will be multiplied by the originating and / or terminating intrastate percentages of use reported by the Customer, as specified in Section 2.6.10, preceding. The result will then be used to determine the carrier common line charges.
  - 1. The access minutes for all switched access service subject to carrier common line charges will be multiplied by the per minute rate to determine the charges.

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**SECTION 4 - BILLING NAME AND ADDRESS SERVICE**

4.1 General

Billing Name and Address (BNA) Service is the provision of the complete billing name, street address, city or town, state and zip code for a telephone number assigned by the Company.

BNA Service is provided for the sole purpose of permitting the Customer to bill its telephonic communications services to its end users and may not be resold or used for any other purpose, including marketing activity such as market surveys or direct marketing by mail or by telephone. The Customer may not use BNA information to bill for merchandise, gift certificates, catalogs or other services or products.

BNA Service provided on a manual basis only. Information will be provided by voice telecommunications, fax, or mail, as appropriate.

BNA information is furnished for sent-paid, collect, bill to third party, 700 and 900 messages and messages charged to a calling card that is resident in the Company's data base.

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**SECTION 4 - BILLING NAME AND ADDRESS SERVICE (CONT'D.)**

4.2 Undertaking of the Company

- 4.2.1 A request for information on telephone numbers should be mailed or faxed to the Company. The Company will provide the response by first class U.S. Mail within ten (10) business days, unless other arrangements are mutually agreed to between the Company and the Customer.
- 4.2.2 The Company will specify the format in which requests are to be submitted.
- 4.2.3 The BNA information will be provided for the calling number furnished to the extent a billing name and address exists in the Company's records, including non-published and non-listed numbers. If the billing name and address information for a specific calling number is confidential due to legal, national security, end user or regulatory imposed requirements, the Company will provide an indicator on the confidential records.
- 4.2.4 The Company will provide the most current BNA information resident in its data base. Due to normal end user account activity, there may be instances where the BNA information provided is not the BNA that was applicable at the time the message was originated.
- 4.2.5 The Company shall use reasonable efforts to provide accurate and complete lists. The Company makes not warranties, expressed or implied, as to the accuracy or completeness of these lists.

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**SECTION 4 - BILLING NAME AND ADDRESS SERVICE (CONT'D.)**

4.3 Obligations of the Customer

- 4.3.1 With each order for BNA Service, the Customer shall identify the authorized individual and address to receive the BNA information.
- 4.3.2 The Customer shall institute adequate internal procedures to insure that BNA information, including that related to non-published and non-listed telephone numbers, is used only for the purpose set forth in this Tariff and BNA information is available only to those Customer personnel or agents with a need to know the information. The Customer must handle all billing name and address information designated as confidential by the Company in accordance with the Company's procedures concerning confidential information. The Company will provide to the Customer a statement of its procedures concerning confidential information upon request.
- 4.3.3 The Customer shall not publicize or represent to others that the 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 the BNA Services.

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**SECTION 4 - BILLING NAME AND ADDRESS SERVICE (CONT'D.)**

4.4 Rate Regulations

- 4.4.1 Service Establishment Charges apply for the initial establishment of BNA Service on a manual basis.
- 4.4.2 A charge applies for each request for BNA information for a telephone number on a manual basis. The Company will keep a count of the requests processed, and will bill the Customer in accordance with these counts whether or not the Company was able to provide BNA information for all requests.
- 4.4.3 When a Customer cancels an order for BNA Service after the order date, the Service Establishment Charge applies.

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**SECTION 5 - ACCESS SERVICE ORDER**

5.1 General

An Access Service Order is used by the Company to provide a Customer Access Service. 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.

When placing an order for Access Service, the Customer shall provide to the Company the order information required in Section 5.2 in addition to the following:

- 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.

5.2 Ordering Requirements

When ordering Switched Access service, the Customer must specify whether the service is to be provided as:

- Direct Trunked Transport to the end office,
- Direct Trunked Transport to a tandem which connects with Common Transport from the tandem to the end office, or
- Common Transport to the end office.

When all or a portion of service is ordered as Direct Trunked Transport, the Customer must specify the type and quantity of Direct Trunked Transport Facility (i.e., High Capacity DS1).

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**SECTION 5 - ACCESS SERVICE ORDER (CONT'D.)**

5.2 Ordering Requirements (Cont'd.)

5.2.2 For Feature Group D Switched Access Service, the Customer shall specify the number of busy hour minutes of capacity (BHMC) from the Customer's premises to the end office by traffic type. This information is used to determine the number of transmission paths. The Customer shall also specify the Local Transport and Local Switching options. Customers may, at their option, order FGD by specifying the number of trunks and the end office when direct routing to the end office is desired or the access tandem switch when routing is desired via an access tandem switch and the Local Transport and Local Switching options desired. When ordering by trunk quantities rather than BHMC quantities to an access tandem, the Customer must also provide the 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 Company in its own efforts to project further facility requirements.

When a Customer orders FGD in trunks, the Customer is responsible to assure that sufficient access facilities have been ordered to handle its traffic.

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**SECTION 5 - ACCESS SERVICE ORDER (CONT'D.)**

5.2 Ordering Requirements (Cont'd.)

5.2.3 For 800 Data Base Access Service, the Customer shall order the service in accordance with the preceding provisions set forth for Feature Group D. If the Customer desires any of the optional features available with Toll Free 800 Series Data Base Service, the Customer shall so specify on the order for service.

5.2.4 When a Customer orders collocation in an end office and/or access tandem with Company provided Switched Access Service(s), the Customer must specify the collocated fiber optic facilities or microwave interconnection location involved. The Customer must also specify the particular end office or access tandem location involved, which must be the end office in which the Switched Access Service(s) originate or terminate, or an Access Tandem in which such service(s) are switched.

5.3 Access Order Service Date Intervals

Access Service is provided with one of the following Service Date Intervals:

- Standard Interval
- Negotiated Interval
- Advance Order Interval

To the extent Access Service can be made available with reasonable effort, the Company will provide Access Service in accordance with the Customer's requested interval, subject to the following conditions.

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**SECTION 5 - ACCESS SERVICE ORDER (CONT'D.)**

5.3 Access Order Service Date Intervals (Cont'd.)

5.3.1 Standard Interval

A schedule of Standard Intervals applicable for Switched Access Services and is as follows:

Feature Groups B and D	Standard Interval
1 to 4 Trunks	28 Days
5 to 8 Trunks	30 Days

If a Customer requests that installation be done outside of normal scheduled work hours, and the Company agrees to this request, the Customer may be subject to applicable Additional Labor Charges.

A Service Date Change Charge as set forth in SECTION 9.5.1 following, will apply for the change in service date on a pending Standard Interval Access Order.

5.3.2 Negotiated Interval

The Company will negotiate a service date interval with the Customer when:

- A. There is no Standard Interval for the service, or;
- B. The quantity of Access Services orders exceeds the quantities specified in the Standard Intervals, or;
- C. The Customer requests a service date beyond the applicable Standard Interval service date except as set forth in C. following.

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**SECTION 5 - ACCESS SERVICE ORDER (CONT'D.)**

5.3 Access Order Service Date Intervals (Cont'd.)

5.3.2 Negotiated Interval (Cont'd.)

The Company will offer a service date based on the type and quantity of Access Services the Customer has requested. The Negotiated Interval may not exceed by more than six (6) months the Standard Interval service date, or, when there is no Standard Interval, the Company offered service date. All services for which rates are applied on an individual case basis are provided with a Negotiated Interval.

Common Channel Signaling Access (CCSA) links will be provided on a Negotiated Interval. New or existing FGD trunks ordered with the SS7 signaling option will be provided on a Negotiated Interval.

The addition and/or deletion of an 800 Access Service six (6) digit Customer identification NXX is provided with a Negotiated Interval. The addition of an 800 Access Service ten digit Customer identification record to the 800 Access Service data base or the deletion of an 800 Access Service ten digit Customer identification record from the 800 Access Service data base is provided with a Negotiated Interval.

	Maximum Interval
Initial establishment of service where Customer is:	
Not yet provided with any FGB or FGD service in the LATA	6 months
Provided FGB or FGD service in the LATA	90 Days

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**SECTION 5 - ACCESS SERVICE ORDER (CONT'D.)**

5.3 Access Order Service Date Intervals (Cont'd.)

5.3.3 Advance Order Interval

When placing an Access Order, a Customer may request an Advance Order Interval for a service date of twelve (12) to twenty-four (24) months from the Application Date for the following services:

- A minimum of twenty-four (24) voice grade equivalent Switched Access Service lines or trunks or 720 BHMCs

Orders for less than the minimum quantities will be accommodated under Standard or Negotiated Interval provisions.

Advance Order Interval Access Orders are subject to all ordering conditions of Standard and Negotiated Interval Access Orders except for the following:

A. Advance Payment

A nonrefundable Advance Payment will be calculated as follows:

Advance Payment (Nonrefundable) the minimum (Nonrefundable) monthly charge for the minimum period plus the applicable Nonrecurring Charges for the services ordered.

This Advance Payment is due ten (10) working days from the date the Company confirms acceptance of the order, or on the Application Date, whichever date is the later date. If the Advance Payment is not received by such payment date, the order will be canceled.

When the Access Services are connected on the service date, the Advance Payment will be applied, as a credit, to the Customer's billed service charges. When there has been a decrease in the number of services originally ordered, as set forth in 5.3.3 (B) following, only the portion of the Advance Payment for services actually installed will be credited.

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**SECTION 5 - ACCESS SERVICE ORDER (CONT'D.)**

5.3 Access Order Service Date Intervals (Cont'd.)

5.3.3 Advance Order Interval (Cont'd.)

B. Cancellation or Partial Cancellation of an Advance Order Interval Access Order

When the Customer cancels an Access Order, the order will be withdrawn. The Advance Payment will not be credited or refunded.

Any decrease in the number of ordered Access Services will be treated as a partial cancellation, and the portion of the Advance Payment for the services canceled will not be credited or refunded.

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**SECTION 5 - ACCESS SERVICE ORDER (CONT'D.)**

5.4 Access Order Modifications

The Customer may request a modification of its Access Order at any time prior to notification by the Company that service is available for the Customer's use or prior to the service date, whichever is later.

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

5.4.1 Service Date Change Charge

Access Order service dates for the installation of new services or rearrangements of existing services may be changed, but the new service date may not exceed the original service date by more than thirty (30) calendar days. When, for any reason, the Customer indicates that service cannot be accepted for a period not to exceed thirty (30) calendar days, and the Company accordingly delays the start of service, a Service Date Change Charge will apply. If the Customer requested service date is more than thirty (30) calendar days after the original service date, the order will be canceled by the Company and reissued with the appropriate cancellation charges applied.

A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The applicable charge is as set forth in Section 9.3, following.

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**SECTION 5 - ACCESS SERVICE ORDER (CONT'D.)**

5.4 Access Order Modifications (Cont'd.)

5.4.2 Partial Cancellation Charge

Any decrease in the number of ordered Switched Access Service lines, trunks or busy hour minutes of capacity ordered with a Standard or Negotiated Interval Access Order will be treated as a partial cancellation and the charges as set forth in Section 5.5.2(A) following will apply. Partial cancellation charges do not apply to Advance Order Interval Access Orders.

5.4.3 Design Change Charge

The Customer may request a design change to the service ordered. A design change is any change to an Access Order which requires engineering review. Design changes do not include a change of Customer premises, end user premises, end office switch, Feature Group type except for changes to Feature Group D. 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 Design Change Charge will apply on a per order per occurrence basis, for each order requiring a design change. The applicable charge is set forth in Section 9.3 following in addition to Additional Engineering may apply. If a change of service date is required, the Service Date Change Charge will also apply.

5.4.4 Expedited Order Charge

A. When placing an Access Order for services(s) for which Standard Intervals exist, a Customer may request a service date that is prior to the Standard Interval service date. A Customer may also request an earlier service date on a pending Standard, Negotiated or Advance Order Interval Access Order. If the Company agrees to provide service on an expedited basis, an Expedited Order Charge will apply, as set forth in 9.3, following.

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**SECTION 5 - ACCESS SERVICE ORDER (CONT'D.)**

5.4 Access Order Modifications (Cont'd.)

5.4.4 Expedited Order Charge

- B. If the Company receives a request for an expedited service date at the time a standard interval access order is placed, the expedited order charge is calculated by summing all the NRCs associated with the access order and then dividing by the number of days in the standard interval. The charge is then applied on a per day improvement basis, per order but in no event will exceed 50% of the total NRCs of the associated with the access order.
- C. If the Companies subsequently unable to meet an agreed upon expedited service date no expedited order charge will apply unless the missed service date was caused by the Customer, the Customer's agent or patron.
- D. When the Company receives a request for expediting a pending standard interval or negotiated interval access order, the expedited order charge is based in the extent to which the access order has been processed at the time the Company agrees to the service date improvement. In no event shall the charge exceed 50% of the total NRCs associated with the access order. In order to determine the expedited order charge, the Company would proceed as follows.
  - 1. Determine the next critical date to be completed on the order.
  - 2. Determine what percent of the provisioning activity is not yet completed.
  - 3. Apply the percentage to the sum of all NRCs associated with the order.
  - 4. Apply the per day charges on a per day of improvement basis, per order.
  - 5. When the request for expediting occurs subsequent to the issuance of the access order a service date change charge also applies.

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**SECTION 5 - ACCESS SERVICE ORDER (CONT'D.)**

5.5 Cancellation of an Access Order

5.5.1 A Customer may cancel an Access Order for the installation of service at any time prior to notification by the Company that service is available for the Customer's use or prior to the service date, whichever is later. The cancellation date is the date the 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 ten (10) days. If a Customer or an end user is unable to accept Access Service within thirty (30) calendar days after the original service date, the Customer has the choice of the following options:

- The Access Order shall be canceled and charges set forth in (B) following will apply, or
- Billing for the service will commence.

If no cancellation request is received within the specified thirty (30) calendar days, billing for the service will commence. In any event, the cancellation date or the date billing is to commence, as applicable, shall be the thirty-first (31st) day beyond the original service date of the Access Order.

5.5.2 When a Customer cancels a Standard or Negotiated Interval Access Order for the installation of service, a Cancellation Charge will apply as follows:

- A. When the Customer cancels an Access Order, a charge equal to the estimated provisioning costs incurred at a particular date for the service ordered by the Company shall apply.
- B. If the Company misses a service date for a Standard or Negotiated Interval Access Order by more than thirty (30) days, due to circumstances such as acts of God, governmental requirements, work stoppages and civil commotions, the Customer may cancel the Access Order without incurring cancellation charges.

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**SECTION 5 - ACCESS SERVICE ORDER (CONT'D.)**

5.6 Minimum Period

- 5.6.1 The minimum period for which Access Service is provided and for which charges are applicable, is one month.
- 5.6.2 The following changes will be treated as a discontinuance of the existing service and an installation of a new service. All associated nonrecurring charges will apply for the new service.

The changes listed below are those which will be treated as a discontinuance and installation of service and for which a new minimum period will be established.

- A. A move to a different building.
  - B. A change in type of service.
  - C. A change in Switched Access Service Interface Group.
  - D. Change in Switched Access Service traffic type.
  - E. Change in Company-provided Switched Access Service to a Collocated Interconnection arrangement or vice versa.
  - F. Change to an existing Feature Group D Service to include the provision of 64 kbps Clear Channel Capability.
- 5.6.3 When Access Service is disconnected prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period.

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

For Switched Access Service, the charge for a month or fraction thereof is equal to the applicable minimum monthly charge for the capacity.

All applicable nonrecurring charges for the service will be billed in addition to the Minimum Period Charge.

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**SECTION 6 - SWITCHED ACCESS SERVICE**

6.1 Description

6.1.1 General

Switched access service, which is available to Customers for their use in originating and terminating communications, provides a two point electrical communications path between a Customer's premises and an end user's premises. It provides for the use of common terminating, switching and trunking facilities and both common subscriber plant and unshared subscriber plant (i.e., WALs) of the Company. Switched Access Service provides for the ability to originate calls from a user's premises to a Customer's premises, and to terminate calls from a Customer's premises to an end user's premises in the LATA where it is provided.

6.1.2. Service Structure

A. Switched access service is provided in service arrangements called Feature Groups (FG s) which are differentiated by their technical characteristics, (e.g., line side vs. trunk side connection at the Company entry switch), and in the manner in which end user accesses them in originating calling (e.g., with or without an access code). The FG s are identified as FGB and FGD. Each feature group requires local transport facilities and the appropriate local switching functions. 800 Database and 900 database access services are available through the use of the trunk side feature groups.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.1 Description (Cont'd.)

6.1.2. Service Structure

A. (Cont'd.)

1. FGs are arranged for either originating, terminating, or two-way calling, based on the Customer end office switching capacity ordered. The Company will determine the type of calling to be provided unless the Customer requests that a different of directional calling is to be provided. In such cases, the Company will work cooperatively with the Customer to determine the direction.
  - a. Originating Calling - permits the delivery of calls from the telephone exchange service locations to Customer's premises
  - b. Terminating Calling - permits the delivery of calls from the Customer's premises to telephone exchange service locations.
  - c. Two-way calling - permits the delivery of calls in both directions, but not simultaneously

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.1 Description (Cont'd.)

6.1.3. Manner of Provision

- A. Lines, Trunks and Busy Hours of Capacity (BHMCs) - Switched access is furnished in either quantities of lines or trunks, or, for tandem switched transport, in BHMCs. BHMCs and trunks are differentiated by type and directionality of traffic carried over a switched access service arrangement. Differentiation of traffic is necessary for the Company to properly design switched access service to meet the traffic carrying requirement of the Customer.
  - 1. FGB is provided on a per trunk basis
  - 2. FGD is provided on a BHMC basis for tandem switched transport only and may also be provided to Customers on a per trunk basis as set forth in Section 5.2, preceding.
- B. Transmission Specifications - there are three transmission specifications (i.e., types A, B, or C) 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), as specified in Sections 6.2, 6.3 and 6.4, following.
- C. Facilities and Routing - any Customer may request that the facilities used to provide switched access service be specially routed.
- D. Testing - At no additional charge, the Company will, at the Customer's request, cooperatively test, at the time of installation, loss, C-message noise, 3 tone slop, dc continuity and operational signaling. When the local transport is provided with interface group 2,6,7, and 9 and the local transport termination is two-wire (there is a four wire to two wire conversion in local transport), balance parameters (equal level echo path loss may also be tested).

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.1 Description (Cont'd.)

6.1.4. Traffic Type

- A. The major traffic types are originating, terminating and directory assistance. When ordering capacity for FGB or FGD access, the Customer must at a minimum specify such access capacity in terms of originating traffic type and / or terminating traffic type.
- B. Originating Traffic represents access capacity within a LATA for carrying traffic from the end user to the Customer. Because some Customers may want to further segregate their originating FGB and FGD traffic into separate trunk groups or because segregation may be required by technical limitations. When ordering the following originating traffic types of access capacity, FGD Customer's must specify the specific traffic type being ordered.
  - 1. Domestic.  
  
Domestic traffic type represents access capacity for carrying only domestic traffic other than 800, 900 and operator traffic.
  - 2. 800
  - 3. 900
  - 4. Operator
    - a) 800, 900 and operator traffic types represent access capacity for carrying, respectively only 800, 900 or operator traffic.
- C. Terminating Traffic - represents access capacity within a LATA for carrying traffic from the Customer to the end user.
- D. Directory Assistance Traffic represents access capacity within a LATA for carrying directory assistance traffic from the Customer to a directory assistance location.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service

6.2.1 General

- A. The functional components of switched access feature groups are local transport, local switching, and carrier common line, as described in Section 3, preceding.

6.2.2. Local Transport

- A. Local Transport provides the transmission facilities between the Customer's premises and then end office switch(es) where the Customer's traffic is switched to originate or terminate its communications.

- B. Local Transport is a two way voice frequency transmission path composed of facilities specified by the Customer or for tandem switched transport, determined by the Company.

1. 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's premises) and in the terminating direction (from the Customer's premises to the end office switch) but not simultaneously.
2. 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 Hertz.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.2. Local Transport (Cont'd.)

- C. The Company will work cooperatively with the Customer in order to determine the following.
  - 1. Whether the service is to be directly routed to an end office switch or through an access tandem switch.
  - 2. The directionality of service.
- D. For purposes of determining local transport mileage, distance will be measured from the wire center that normally serves the Customer to the end office switch(es). Exceptions to the mileage measurement rules are set forth in Section 6.4.9, following.
  - 1. Notwithstanding, Section 6.2.2.A, the local transport mileage for access minutes which originate (i.e., FGD) from or terminate (i.e., FGB or FGD), to a WAL service will be calculated in an airline basis, using V&H coordinates method, between the WCO at which the WAL service terminates and the Customer premises serving wire center for the FGB and FGD service provided. When the FGB usage originating from or terminating to a WAL service is transposed over a FGB trunk which assumed minutes of use are billed, the local transport mileage for such usage will be calculated in accordance with Section 6.4.9 as appropriate.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.2. Local Transport (Cont'd.)

E. Local Transport Rate Category

Local Transport Rate Category is comprised of the following:

1. Entrance Facility - the entrance facility is comprised of a standard channel termination rate for that portion of the voice frequency transmission path from the Customer premises to the serving wire center.
  - a. The Customer must order or have in place an entrance facility from the Customer premises to the serving wire center of the Customer premises for direct trunked facility or tandem switched transport.
  - b. An office channel termination rate will apply in lieu of the standard channel termination for each local transport entrance facility terminated at the Customer's collocated premises. Company facilities or services will not be provided to connect collocated premises in different wire centers.
2. Interconnection Charge

The Interconnection charge provides for the interconnection with the Company switched access network.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.2. Local Transport (Cont'd.)

E. Local Transport Rate Category (Cont'd.)

3. Channel Mileage.

The local transport rate category, when provided as direct trunked transport, is comprised of channel a mileage rate. Channel mileage rate provides for that portion of the voice frequency transmission path from the serving wire center of the Customer premises directly to an end office or an access tandem.

4. When provided as tandem switched transport, local transport is comprised of local transport termination, local transport facility and local transport tandem switching.

a. Local Transport Termination provides for that portion voice frequency transmission path at either the serving wire center of the Customer premises or at the access tandem and the end office switch for traffic that is switched at an access tandem. Local transport termination for that portion of the voice frequency transmission path at a host end office and a remote switching system or a remote switching module.

b. Local Transport Facility provides for that portion of the voice frequency transmission path from either the serving wire center of the Customer premises or the access tandem to an end office for traffic that is switched at an access tandem. It also provides for that portion of the voice frequency transmission path from the host end office to a remote switching system and a remote switching module.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.2. Local Transport (Cont'd.)

E. Local Transport Rate Category (Cont'd.)

4. (Cont'd.)

- c. CCSA provides for the interconnection to the Company common channel signaling network using dedicated STP links and STP ports.
- d. Operator pass-through is provided on a mechanized and manual basis for intraLATA and interLATA calls.

F. Interface Groups

Interface groups are provided for terminating the local transport at the Customer's premises. Five Interface groups are provided for terminating the local transport at the Customer's non-collocated premises and two interface groups are provided for terminating the local transport at the Customer's collocated 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 premises and the first point of switching may, at the option of the Customer, be provided with optional features described herein.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.2. Local Transport (Cont'd.)

F. Interface Groups (Cont'd.)

1. As a result of the Customer's access order and the type of entrance facilities serving the Customer's 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 Company equipment be placed at the Customer's premises. For example, if a voice frequency interface is ordered by the Customer and the Company facilities serving the Customer's premises is digital, then Company channel bank equipment must be placed at the Customer's premises in order to provide the voice frequency entrance facility ordered by the Customer. For collocated arrangements, such equipment will be placed in Company space within the serving wire center, access tandem or remote node that serves the Customer's collocated premises.
2. Only certain premises interfaces are available at the Customer's premises. The premises interfaces associated with the interface groups may vary among feature groups. The various premises interfaces which are available with the interface groups and the feature groups which may be used are shown in Exhibits 6.2.2.-1 through 6.2.2.-5.
3. Transmission Specifications - Interface Group 1 is provided with Type C transmission specifications. Interface Groups 2, 6, 7 and 9 are provided Type A or B transmission specifications depending in the feature group and whether the access service is routed directly or through and access tandem. All interface groups are provided with data transmission parameters. Compatibility and interface requirements for use of switched access interface 9 are in accordance with the guidelines set forth in CB119 / TA34.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.2. Local Transport (Cont'd.)

F. Interface Groups (Cont'd.)

4. Signaling - Interface groups 1 and 2 are provided with loop supervisory signaling. When the interface is associated with FGB or FGD, such signaling, except for two-way calling (which is E&M Signaling), will be reverse battery signaling. Interface groups 6,7 and 9 are provided with individual transmission path bit stream supervisory signaling.
5. The SS7 signaling option is provided with FGD. These trunks may be provided using interface groups 1, 2, 6 and 9. CCSA signaling connections are provided using interface group 6.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.2. Local Transport (Cont'd.)

- G. Other Non-Chargeable Local Transport Optional Features - are provided where transmission facilities permit, and are as follows.
1. Customer specified Entry Switch Receive Level allows the Customer to specify the first point of switching. The range of transmission levels which may be specified as described in Technical Reference TR-NPL-000334. This available with interface groups 2,6,7, and 9 for FGB.
  2. Customer Specific Specification of Local Transport Termination allows the Customer to specify, for FGB routed directly to an end office or access tandem, a four wire termination of the local transport at the entry switch in lieu of a Company selected two-wire termination. This is available only when the FGB arrangement is provided with Type B transmission specifications.
  3. Signaling System 7 Signaling option allows the Customer to receive signals for a call setup out of band. This option is available with FGD. The option is provided with calling party number, charge number and carrier selection parameter as specified in section 6.2.4D, following

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.2. Local Transport (Cont'd.)

H. Chargeable Optional Features

1. Common Channel Signaling Access (CCSA) provides interconnection to the Company common channel signaling network using a dedicated STP link and STP port. The STP link provides the connection for the Customer designated premises to the Company STP. The STP port provides the connection from the Customer access to the Company SS7 Network. The STP link and STP Port are dedicated to the Customer. Shared Use may also be provided.
  - a. Each CCSA STP link provides two-way digital transmission at a speed of 56 Kbps. The connection to the Company STP can be made from either the Customer's signaling point which requires two 56 Kbps circuits or from the Customer's STP which requires four 56 Kbps circuits. The design requirements for CCSA STP links are described in Technical Publication TR-TSV-000905.
  - b. The STP Locations are set forth in the NECA Tariff FCC No. 5.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.2. Local Transport (Cont'd.)

H. Chargeable Optional Features (Cont'd.)

1. (Cont'd.)

- c. Where the multiple STP pairs are deployed in a LATA, Company end offices or tandems are interconnected to only one STP pair. The Customer must route terminating traffic to the STP pair that serves the end office or tandem switch where the call is terminated. The Customer may request that all of its terminating traffic in a LATA be routed to a single STP Pair, using the Company's SS7 signaling network to provide connection to the other STP pair in the LATA. If available capacity exists within the Company's SS7 signaling network and where technically feasible, the Company and the Customer will mutually agree to the Customer's use of a single STP pair in the LATA. In the event that the Company's SS7 signaling network may be impaired as a result of changes in traffic requirements, the Customer will then be notified that its use of a single STP pair in the LATA is no longer permitted and that it must order CCSA links to each STP pair in the LATA.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.3 Local Switching

- A. Local Switching provides the functions necessary to complete the transmission of switched access communications to and from end users serviced by the local end offices. The functions included are listed as follows.
1. Local End Office Switching - The common switching functions associated with the various Switched Access feature groups.
  2. Transport Termination - The line or trunk side arrangements which terminate the local transport facilities at end offices.
  3. Intercept - The termination of a call at a Company intercept operator or recording.
  4. Line Termination - The termination for the end user lines (common lines and WALs) terminating in the end office.
- B. WAL Service terminations are differentiated by line side vs. trunk side terminations, the standard WAL service arrangement is available with line side termination.
1. There are various types of originating, terminating and two-way line side terminations depending on the type of signaling associated with the WAL service (i.e., loop start or ground start). Line side terminations are available with either dial pulse or dual tone multifrequency address signaling.
  2. There are also various types of originating only or terminating only WAL service trunk side termination that are available in lieu of standard line terminations. Trunk side terminations are provided only in association with certain WAL service termination optional features.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.4 Local Switching Optional Features - Common Switching

- A. Alternate Traffic Routing - End Office Alternate when Ordered in Trunks - provides an alternate routing arrangement for Customers who order in trunks and have access for a particular feature group to an end office via two routes: one route via an access tandem and one direct route. The feature allows the Customer's originating traffic from an end office to be offered first to the direct trunk group and then overflow to the access tandem group. It is provided in suitably equipped end offices and available with FGB and FGD. It is not available with FGD provided from designated electro-mechanical end offices.
  
- B. Alternate Traffic Routing - Multiple Customer Premises - provides the capability of directing 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 premises. The Customer shall specify the last trunk CCS desired for high usage group. It is provided in suitably equipped end office or access tandem switched and is available with FGB and FGD.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.4 Local Switching Optional Features - Common Switching (Cont'd)

- C. Automatic Number Identification (ANI) - Switched access service offering the optional feature, ANI, is provided under this tariff only to Cable TV companies for the sole purpose of facilitating billing for such companies and for Interexchange Carriers.
1. ANI provides the automatic transmission of a seven or a ten digit number and information digits to the Customer's premises for calls originating in the LATA, to identify the calling station. The ANI feature is an end office software function which is associated on a call by call basis with all individual transmission paths in a trunk group routed directly between an end office and a Customer's premises; or where technically feasible, with all individual transmission paths in a trunk group between an access tandem and a Customer's premises. Where ANI cannot be provided, (e.g., on calls from four-and party services), information digits will be provided to the Customer.
  2. The seven digit ANI telephone number is available with FGB. With this feature group, technical limitations may exist in 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 lines and public telephone service lines using FGB or when an ANI failure has occurred. The ten digit ANI telephone number is available with FGD provided multifrequency address signaling. The ten digit ANI telephone number consists of the NPA plus seven digit ANI Telephone number.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.4 Local Switching Optional Features - Common Switching (Cont'd.)

C. (Cont'd.)

3. 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).
  - a. The information digits identify
  - b. Telephone number is the station billing number
  - c. No special treatment is required.
  - d. Multiparty line telephone number is a four or eight party line and cannot be a identified number must be obtained by an operator or in some other manner.
  - e. ANI failure has occurred in the end office switch which prevents identification of the calling telephone number. The Telephone number must be obtained via an operator or in some other manner.
  - f. Hotel / motel originated call which requires room identification.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.4 Local Switching Optional Features - Common Switching (Cont'd.)

- D. Baud Advance Arrangement for Use with WAL Service - This option which is provided in association with two or more WAL service groups, provides for the automatic overflow of terminating calls to a WAL service group, when that group has exceeded its call capacity, to another WAL service group with a band designation equal to or greater than that of the overflowing WAL service group. This arrangement does not provide for call overflow from a group with a higher band designation to one with a lower one. This option is available with FGD.
- E. End Office End User Line Service Screening for Use with WAL Service - This option provides the ability to verify that a Customer has dialed a called party address (by screening the called NOA and / or NXX on the basis of the geographical bands selected by the Company) which is in accordance with that end user's service agreement with the Customer (i.e., WATS). This option is provided in all Company electronic end offices and where available, in electro-mechanical end offices in which WAL service is provided. It is available with FGD.
- F. Hunt Group Arrangement for Use With WAL Service - this option provides the ability to sequentially access one or more WAL Services (i.e., 800 service access lines) in the terminating direction, when the hunting number of the WAL service group is forwarded from the Customer to the Company. This Feature is provided in the Company's end offices in which WAL service is provided. It is available with FGB and FGD.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.4 Local Switching Optional Features - Common Switching (Cont'd.)

- G. Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WAL Service - this option provides an arrangement for an individual WAL Service within a multiline hunt or uniform call distribution group that provides access to those WAL services within the Hunt or the uniform call distribution group when it is idle or provides busy tone when it is busy, when the non-hunting number is dialed. Where available, this feature is only provided in Company electronic end offices in which WAL service is provided. It is available with FGB and FGD.
  
- H. Routing of IntraLATA Calls to the Company for Use with WAL Service - This option is available with either, originating only WAL service not equipped with the end office end user line service screening optional feature, or with two-way WAL service, provides that IntraLATA calls originating over such services by the end users dialing valid NXX codes in the LATA, time or weather announcement services of the Company, community information services of an information service provider, local operator assistance (0- and 0+), service codes (611 and 911), and directory assistance (411, 555-1212 and NPA 555-1212) will be routed to the facilities of the Company for completion. Calls placed by the end user's dialing the 950-0XXX or 950-1XXX will directed to the FGB Customer. This option provides that interLATA calls originating from such services by the end user's dialing 0- will be directed to the FGD service of the Customer providing the InterLATA operator services. This option is available with FGD.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.5 Local Switching Optional Features - Transport Termination

- A. Operator Trunk Assist Feature - this option provides the operator functions in the end office to the Customer's operator. These functions are operator released and operator attached. It is available with FGD and is provided as a trunk type of transport termination. This service is not available in combination with SS7 signaling option.
- B. Operator Trunk Full Feature - this option provides the operator functions available in the end office to the Customer's operator for InterLATA use. These functions are, operator released, operator attached, coin collect, coin return and ringback. It is available with FGD and is provided as a trunk type of transport termination. This option is not available with SS7 signaling option.
- C. Rotary Dial Station Signaling - this option provides for the transmission of called party addresses from rotary dial stations to the Customer's premises for originating calls. This option is provided in the form of a specific type of transport termination. It is available with FGB, only on a directly trunked basis.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.6 Local Switching Optional Features - SS7 Signaling Options

- A. Calling Party Number (CPN) - CPN provides for the automatic transmission of the calling party's ten digit telephone number to the Customer's premises for calls originating in the LATA or from the Customer's premises for calls terminating in the LATA. The ten digit telephone number consist of the NPA plus seven digit telephone number, which may or may not be the same number as the calling stations charge number. The feature is provided with FGD when ordered with the SS7 signaling option. The specific protocols for these options are contained in TR-TSV-000905.
- B. Charge Number (CN) - CN provides for the automatic transmission of the ten digit billing number of the calling station number and originating line information. This feature is provided with FGD when ordered with SS7 signaling option.
  - 1. The information digits shall only be used for billing and collection, routing and screening and completion of the originating subscriber's call or transaction. The information provided shall not be reused or resold without first notifying the originating telephone subscriber and obtaining affirmative consent of the subscriber for reuse or resale.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.6 Local Switching Optional Features - SS7 Signaling Options (Cont'd.)

B. (Cont'd.)

2. Unless the originating subscriber has given consent for the reuse or resale, any information provided shall not be used for any purpose other than the following.

- a. Performing the services or transactions that are the subject of the originating subscriber's call.
- b. Ensuring network performance security, and the effectiveness of the call delivery.
- c. Compiling, using and disclosing aggregate information.
- d. Complying with applicable laws.

3. The above restrictions shall not prevent the subscriber to the CN feature from using information acquired from a CN feature, such as the telephone number and billing information or information derived from analysis of the characteristics of calls received through the CN feature, to offer a product or service that is directly related to the products or services previously purchased by a Customer of the CN feature subscriber.

C. Carrier Selection Parameter (CSP) - CSP provides for the automatic transmission of signaling indicator which signifies to the Customer whether the call being processed originated from a pre-subscribed end user of that Customer. This feature is provided with FGD when ordered with SS7 Signaling Option.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.2 Functional Components of Service (Cont'd.)

6.2.6 Local Switching Optional Features - SS7 Signaling Options (Cont'd.)

- D. Carrier Identification Parameter (CIP) - provides for the transmission of CIC information to the Customers on originating FGD service. CIP is available from suitably equipped end offices and access tandems, when the SS7 signaling option is specified. When CIP is provided, the switch will transmit, to the Customer premises, the 3 or 4 digit CIC of the pre-subscribed line, or the CIC selected when the end user places a call using 10XXX or 101XXXXX dialing. CIP is available on an originating basis as a chargeable optional feature with originating one or two way FGD trunk groups.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access

6.3.1 Feature Group B (FGB)

- A. FGB which is available to all Customers, provides trunk side access to a Company end Office switched with an associated uniform 950-0XXX or 950-1XXX access code for non-900 access services traffic, for Customer's use in originating and terminating communications. FGB when directly routed to an end office (i.e., provided without the use of a tandem switch), is provided at appropriately equipped Company electronic end office switches. When provided via Company designated access tandem switches, FGB switching is provided at Company electronic and electro-mechanical end office switches.
- B. FGB is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The Company will establish a trunk group or groups for the Customer at end office switches or access tandem switches where FGB switching is provided. 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 switching arrangements may be combined in a single trunk group at the option of the Company.
- C. Uniform Access - Uniform Access is used for non-800 and non-900 access services FGB switching. The form of the code is 950-0XXX or 950-1XXX for carriers. One uniform access code will be assigned to the Customer for the Customer's domestic communications and another will be assigned to the Customer for their international communications, if required. These uniform access will be the assigned access numbers of all non-800 and non-900 access FGB service provided to the Customer by the Company. No access code is required for FGB switching to provide 800 and 900 access services where the Telephone numbers dialed by the Customer's end user are in the form of 1+800+NXX+XXXX or 1+900+NXX+XXXX., respectively.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.1 Feature Group B (FGB) (Cont'd.)

- D. Terminating Access - FGB switching when used in the terminating direction, may be used to access valid NXXs in the LATA, time whether announcement services of the Company, community information services of an information service provider and other Customers' services (by dialing the appropriate digits).
1. When directly routed to an end office, only those valid NXX codes served by that end office may be accessed.
  2. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed.
  3. Call in the terminating direction will not be completed to 950-0XXX or 950-1XXX access codes local operator assistance (0- or 0+ ), directory assistance (411 where available and 555-1212), service codes (611 and 911 where available) or 10XXX or 101XXX access codes.
  4. FGB may not be switched, in the terminating direction, to FGB and FGD.
  5. The Customer will also be billed additional non-access charges for calls to certain community information service for which rates are applicable under Company exchange service tariffs (e.g, 976 Dial-it Network Services).
  6. Non-access charges will also be billed for calls from FGB trunk to another Customer's service in accordance with that Customer's applicable service rates when the Company performs the billing function for that Customer.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.1 Feature Group B (FGB) (Cont'd.)

- E. Signaling - the trunk side switch equipment is provided with wink start pulsing signals, and answer and disconnect supervisory signaling. FGB switching is provided with multifrequency address signaling in both the originating and terminating directions. Except for FGB switching provided with ANI or rotary dial station signaling arrangements as set forth in section 6.2.4A and 6.2.4B, 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 Company and will be subject to the ordinary transmission capabilities of the local transport provided.
- F. Intercept Announcement - 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.
- G. Transmission Specifications - FGB is provided with either Type B or Type C transmission specifications. The specifications for the associated parameter are guaranteed to the end office when routed directly or to the first point of switching routed via an access tandem.
  - 1. Type C transmission specifications are provided with interface group 1
  - 2. Type B is provided with interface groups 2, 6, 7 and 9
  - 3. Type DB data transmission parameter are provided with FGB to the first point of switching.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.1 Feature Group B (FGB) (Cont'd.)

- H. Testing Capabilities - FGB is provided, in terminating direction where equipment is available, with seven digit access to balance (100 type) test line and milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, loop around test line, short circuit test line and open circuit test line.
- I. Provisions of Other Services - The Interexchange Carrier will be provided with the routing of intraLATA calls to the Company for use of WAL service option, when a WAL service is provided in conjunction with FGB.
- J. Common Switching Optional Features
  - 1. Alternate Traffic Routing
  - 2. Automatic Number Identification (ANI)
  - 3. Hunt Group Arrangement for Use with WATS Access Line Service
  - 4. Non-hunting Number for the Use with Hunt Group Arrangement
  - 5. Uniform Call Distribution for Use with WATS Access Line Service
  - 6. Uniform Call Distribution Arrangement for use with WATS Access Line Service
  - 7. Up to 7 Digit Out- pulsing of Access Digits to Customer.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.1 Feature Group B (FGB) (Cont'd.)

K. Transport Termination Optional Features

1. Rotary Dial Station Signaling

L. Local Transport Optional Features

1. Customer Specific Entry Receive Level

2. Customer Specification of Local Transport termination and Supervisory Signaling, as specified in Section 6.2.2, preceding.

M. WATS Access Line Service termination Optional Features

1. Answer Supervision

2. E&M Supervisory Signaling

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.2. Feature Group D (FGD)

- A. FGD Access, which is available to all Customers, provides trunk side access to Company end office switches with an associated 10XXX or 101XXXX access code for non-800 database and non-900 access services traffic, for the Customer's use in originating and terminating communications. To originate non-800 data base and non-900 intraLATA calls the 10XXX or 101XXXX access code must be dialed. FGD is provided at the Company designated end office switch(es) whether routed directly or through an access tandem switches. For FGD with the SS7 signaling option, the CCSA signaling connection is provided to Company designated STPs.
- B. FGD is provided with trunk side switching through the use of end office or access tandem switch trunk equipment. The Company will establish a trunk group or groups for the Customer at the 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 arrangement may be combined in a single trunk group at the option of the Company.
- C. Uniform Access - The uniform access code for FGD switching is in the form 10XXX or 101XXXX. A single access code will be the assigned number of all FGD access provided to the Customer by the Company. No access code is required for calls which originate from a WAL service.
  1. Where no access is required or available, the number dialed by the end user shall be a ten or eleven digit number for calls in the NANP. The form of the numbers dialed by the end user is NXX-XXXX, 0 or 1+NXX-XXXX, NPA+NXX-XXXX or 0 or 1+NPA+NXX-XXXX.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.2. Feature Group D (FGD) (Cont'd.)

C. (Cont'd.)

2. When the 10XXX or 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 Company's emergency reporting service or the end of dialing digit (#) for cut through access to the Customer premises.

3. Calls originating over a WAL service by the end user's dialing 800 + NXX - XXXX, 900 + NXX - XXXX, 1 + 800 + NXX - XXXX or 1 + 900 + NXX - XXXX will be routed to the switched access service of the 800 or 900 service provider. Calls originating over a WAL service by the end user's dialing assigned NXXs, local operator assistance (0-), service codes (611 or 911), Directory Assistance (411 or 555-1212 or NPA+555-1212), 10XXX and 101XXXX access codes will not be completed. All other calls originating over a WAL service will be routed over the particular Customer's FGD service used to provision the WAL service. These dialing provisions apply for WAL service not equipped with the option of, routing of IntraLATA calls over the Company for use with the WAL service.

D. Terminating Access - FGD switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time and weather announcement services of the Company, community information service of an Information Provider and other Customer's services (by dialing the appropriate codes) when the services can be reached using valid NXXs codes.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.2. Feature Group D (FGD) (Cont'd.)

D. (Cont'd.)

1. 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 assessed.
2. The Customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable under the Company exchange service tariffs.
3. Non-access charges will also be billed for calls from the FGD trunk to another Customer's service in accordance with that Customer's applicable service rates when the Company performs the billing function for that Customer.
4. Calls in the terminating direction will not be completed to 950-0XXX or 950-1XXX access codes, local operator assistance (0- and 0+), service codes (611 and 911) and 10XXX or 101XXXX access codes. Calls will not be completed to directory assistance (411 and NPA+555-1212) unless the FGD switching is combined with directory assistance switching. FGD may not be switched in the terminating direction to FGB or FGD.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.2. Feature Group D (FGD) (Cont'd.)

- E. Redirection of End User Dialed Calls - When a Customer has had FGB access in an end office and subsequently replaces the FGB access with FGD access, at the Customer's request and where facilities permit, the Company will, for a period of ninety (90) days, direct the calls dialed by the Customer's end users using the Customer's previous FGB 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 require the Customer to receive additional address signaling from the end user. Such calls will be rates as FGD.
- F. Signaling - The switch trunk is provided with wink-start pulsing signals and answer and disconnect supervisory signaling or without SS7 signaling option is specified. FGD may be provided, at the Customer's option, with multifrequency addressing or common channel signaling. With multifrequency address signaling, up to twelve digits of the called party number dialed by the Customer's end user dual tone multifrequency or dial pulse address signals will be provided by 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.
  - 1. With common channel signaling, up to 12 digits of the called party number dialed by the Customer's end user dual tone multifrequency or dial pulse address signals will be provided by the Company equipment to the Customer's designated premises via a CCSA connection. The SS7 signaling option requires the Customer to order CCSA links.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.2. Feature Group D (FGD) (Cont'd.)

- G. Transmission Specifications - FGD is provided with either Type A, B, or Type C transmission specifications. When routed directly to the end office, either Type B or C is provided. When routed to an access tandem, only Type A is provided.
1. Types A and B are provided with interface groups 2, 6, 7 and 9. Type A is provided on the transmission path from the access tandem to the end office.
  2. Type C is provided with interface group 1
  3. Type DA data transmission parameters are provided for the transmission path between the premises and the access tandem and between the access tandem and the end office. Type DB data transmission parameters are provided with FGD for the transmission path between the Customer's premises and the end office when directly routed to the end office.
- H. Testing Capabilities - FGD is provided, in 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 (107type) test line, loop around test line, short circuit test line and open circuit test line.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.2. Feature Group D (FGD) (Cont'd.)

I. Common Switching Options

1. Alternate Traffic Routing (not available in designated electro-mechanical end offices).
2. Automatic Number Identification (ANI).
3. Band Advance Arrangement for Use with WAL service.
4. Carrier Identification Parameter
5. End Office End User Line Service Screening for Use with WAL Service.
6. Hunt Group Arrangement for Use with WAL Service
7. Multiple Trunk Routing
8. Non-Hunting Number for Use with Hunt Group Arrangement
9. Routing of IntraLATA calls to the Company for Use with WAL service.
10. Service Class Routing
11. Uniform Call Distribution Arrangement for Use with WAL service
12. Uniform Call Distribution for Use with WAL service.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.2. Feature Group D (FGD) (Cont'd.)

- J. Transport Termination Optional Features
  - 1. Operator Trunk Assist Feature Arrangement
  - 2. Operator trunk Full Feature Arrangement
- K. Local Transport Optional Features
  - 1. Common Channel Signaling
  - 2. Signaling System 7
  - 3. Supervisory Signaling
- L. WAL Service Termination
  - 1. Answer Supervision
  - 2. E&M Supervisory

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.2. Feature Group D (FGD) (Cont'd.)

M. Other Optional Features

1. WAL Service 10XXX or 101XXXX Capability is available with either originating or terminating only or two-way WAL service not equipped with the optional Feature, end office end user line service.
  - a. Screening provides the capability for end users of such service to originate calls to FGD by dialing the appropriate 10XXX or 101XXXX access code. These calls will be routed to the switched access service Customer so designated which provides FGD to the end office (WSO) form which WAL service is provided. When the 10XXX or 101XXXX is used, FGD switching also provides for the end-of-dialing (#) for cut through access to FGD Customer's premises.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.3. 800 Data Base Access Service

- A. 800 Data Base Access Service is a service offering utilizing trunk side switched access service. The service provides for the forwarding of end user dialed 800 calls to a Company service switching point which will initiate a query to the data base to perform the Customer identification function. The call is forwarded to the appropriate Customer based on the dialed 800 number. The Customer has the option of having the dialed 800 number (i.e., 1-800-NXX-XXXX) or, if the 800 to POTS number translation feature is specified, a translated ten digit POTS number (i.e., NPA-NXX-XXXX) is delivered to the Customer premises.
  - 1. An 800 Customer identification charge described in 6.4.4, applies to Customer who obtain 800 access services.
- B. No access code is required for 800 data base access service. When an 800+NXX-XXXX call is originated by an end user, the 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. The Customer identification function will be available at suitably equipped end offices or access tandem switches. If the call originates from an end office switch not equipped to provide the Customer identification function, the call will be routed to an access tandem at which the function is available. Once the Customer identification function has been established, the call will be routed to the Customer. Calls originating from an end office switch not included in the Customer's area of service for 800 data base will not be completed.
- C. The provision of 800 data base service requires access to the 800 Service management system through the following action:
  - 1. Direct access by the Customer of other authorized party, to the 800 Service management system.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.3. 800 Data Base Access Service (Cont'd.)

- D. The manner in which 800 data base access service is provisioned is dependent on the status of the end office from which the service is provided, and / or the status of the Customer (i.e., MTS / WATS type provider). 800 data base access service may be provisioned at the Customer's option as either FGB or FGD.
- E. Unless prohibited by technical limitations (e.g., different dialing plans), the Customer's 800 data base access service traffic may, at the option of the Customer, be combined in the same trunk group arrangement with the Customer's non-800 access service traffic for the same the end office and of the same feature group type. Combining 800 data base service traffic with the Customer's direct routed switch access service arrangements will be allowed only when the end office is equipped to perform the Customer identification function. When required by technical limitation, a separate trunk group must be established for 800 data base access service.
- F. 800 Traffic carried over direct end office routed trunks is available only at end offices equipped with 800 access SSP functionality. 888 traffic carried over direct end office routed trunks is available only at end offices equipped with 888 access to SSP functionality. All such traffic originating from end offices not equipped with the appropriate SSP function must be routed via an access tandem at which the function is available and the 800 access service must be ordered accordingly. SSP locations are identified in the NECA Tariff No. 5.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.3 Description of Switched Access (Cont'd.)

6.3.3 800 Data Base Access Service (Cont'd.)

G. Optional Features

1. Alternate Routing Establishment allows the Customer to create call processing logic for 800-NXX-XXXX dialed calls. In this manner the 800 data base access service can be customized to meet individual requirements. The feature may be used in combination with one or more routing options based upon Customer specification and technical switch limitations.
  - a. The Customer may segment the 800 calls based in the following options to choose different terminating destinations and / or multiple carriers: [a] NPA / NXX or specific telephone number of the calling party, [b] time of day, [c] day of the week, [d] specific days of the year (e.g., December 25), and [e] percentage of traffic (in 1% increments).
  - b. This feature, when based on NPA / NXX or specific telephone number of he calling party will be based on the ANI associated with the call. When based on the specific telephone number of the calling party, the availability of this feature is subject to the Company's ability of this feature to obtain full ten digit ANI of the calling party.
2. 800 to POTS Translation allows a Customer to designate a ten digit POTS telephone number to be translation feature is ordered, the Customer will be unable to determine that such calls originate as 800 calls unless the Customer also orders the ANI optional feature.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company

6.4.1 Transmission Specifications

- A. The Company will, upon notification by the Customer that the data parameters 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.
- B. Each switched access service transmission path is provided with standard transmission specifications (Types A, B, and C). There are three types of transmission specifications. The standard for a particular transmission path is dependent on the switched access service arrangement, the entrance facility, the interface group and whether the service is directly routed or via an access tandem. Data transmission parameters are also provided with each switched access transmission path.

6.4.2 Network Management

- A. The Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the 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 Company.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.2 Network Management (Cont'd.)

B. The Company maintains the right to apply protective controls (i.e., those actions such as call gapping, 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 Company or Customer facilities, natural disasters, mass calling or national security demands.

1. In the event that the protective controls applied by the Company result in the complete loss of service by the Customer, the Customer will be granted credit allowance for service interruption as set forth in section 2.11.

6.4.3. Design and Traffic Routing of Tandem Switched Trunks

A. For tandem switched access service which is ordered on a BHMC basis, the Company shall design and determine the selection of facilities from the serving wire center of the Customer premises to the access tandem, and to the subtending end offices.

1. The Company shall also decide if the capacity is to be providing originating only, terminating only, or two-way trunk groups.
2. The Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.3 Design and Traffic Routing of Tandem Switched Trunks (Cont'd.)

B. Selection of facilities and equipment and traffic routing of the service are based in standard engineering methods, available facilities and equipment, and the Company traffic routing plans.

1. If the Customer desires routing and directionality different from that determined by the Company, the Company will work cooperatively with the Customer in determining whether the service is to be routed directly to an end office or through an access tandem and also in determining the directionality of the service.

C. For tandem switched access service which is ordered on a per trunk basis, the Customer desired trunk directionality and / or traffic routing of the switched access switch are specified on the Customer's order for service.

1. The Company will determine the optimal network configuration based on the capacity ordered.

2. If the Customer desires routing or directionality different from the optimal configuration determined by the Company, the Company will work cooperatively with the Customer in determining the routing directionality of the service before establishing a firm order.

D. Design Layout Report

At the request of the Customer, the 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. Design layout reports will also be provided for WAL service when specifically requested by the Customer. 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.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.4 Provision of Performance Data

- A. Subject to the availability, end to end service performance data available to the Company through its own service evaluation routines, may also be made available to the Customer based on previously arranged interval and format.
1. 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).
  2. These data do not include service performance data which are provided under other tariff sections, (e.g., testing service results).
  3. If data is to be provided in other than paper format, the charges for such provisions will determined on an individual case basis.

6.4.5 Trunk Group Measurements Reports

Subject to availability, trunk group data in the form of usage in CCS, peg count and overflow, will be made available to the Customer, based on previously agreed to intervals. Regulations pertaining to this report are also contained in Section 6.5.2, following.

6.4.6 Determination of Number of End Office Transport Terminations

For analog entry switches, a termination will be provided for each transmission path provided. For digital entry switches, an equivalent termination will be provided for each transmission path provided.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.7 Design Blocking Probability

The Company will monitor the facilities used in the provision of switched access service to meet the following blocking criteria.

- A. For FGB, the design blocking objective will be no greater than one percent between the point of termination at the Customer's premises and the first point of switching when the traffic is directly routed without an alternate route. Standard traffic engineering methods will be used by the Company to determine the number of transmission paths required to achieve this level of blocking. In the event, of 900 access service media simulated calling, the design blocking objective of not greater than one percent cannot be guaranteed.
- B. For FGD, the design blocking objective will be no greater than one percent between the point of termination at the Customer's premises and the end office switch, whether the is directly routed without an alternate route or routed via an access tandem. Standard traffic engineering methods as set forth in SR-EOP-000191, trunk traffic engineering concepts and applications will be used by the Company to determine the number of transmission paths required to achieve this level of blocking.
  - 1. In the event of 900 Access service media stimulated calling, the design blocking objective of no greater than one percent cannot be guaranteed.
  - 2. All service configurations will conform to the blocking objectives in this tariff except where the Company facility conditions cannot support the blocking objectives contained in this tariff; in such cases, blocking objectives that can be supported will be uniformly applied to all Customers.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.7 Design Blocking Probability (Cont'd.)

- C. The Company will perform routine measurement functions for the capacity ordered, whether ordered in lines, trunks or BHMCs, in accordance with Company design blocking criteria, to assure that an adequate number of transmission paths are in service. The Company will recommend that additional capacity (i.e., BHMC, lines or trunks), be ordered by the Customer when additional paths are required to reduce the measured blocking to the designed blocking level.
  
- D. Excessive Trunk Group Blocking

For FGD 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 thresholds. Excessive trunk group blocking occurs when the blocking thresholds are exceeded. The Customer will be notified by the Company to increase its capacity (BHMC or quantities of trunks) when excessive trunk group occurs on groups carrying FGD traffic. If the order for sufficient additional capacity to handle the Customer's traffic has not been received by the Company within fifteen days of the notification, the Company will bill the Customer for each overflow in the excess of the following chargeable thresholds.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.7 Design Blocking Probability (Cont'd.)

D. (Cont'd.)

1. Chargeable Thresholds for Trunk Group Specified in Exhibit 6.4.7-1

- a. Trunk Group Size 1-2 Allowable Overflows, per trunk, per month 18
- b. Trunk Group Size 3-4 Allowable Overflows, per trunk, per month 19
- c. Trunk Group Size 5-6 Allowable Overflows, per trunk, per month 13
- d. Trunk Group Size 7-40 Allowable Overflows, per trunk, per month 10
- e. Trunk Group Size 41-139 Allowable Overflows, per trunk, per month 09
- f. Trunk Group Size 140-500 Allowable Overflows, per trunk, per month 08
- g. Trunk Group Size 501 + Allowable Overflows, per trunk, per month 07

2. Chargeable Thresholds for trunk Groups, Specified in Exhibit 6.4.7.-2

- a. Trunk Group Size 1-4 Allowable Overflows, per trunk, per month 10
- b. Trunk Group Size 5-6 Allowable Overflows, per trunk, per month 08
- c. Trunk Group Size 7-125 Allowable Overflows, per trunk, per month 06
- d. Trunk Group Size 126+ Allowable Overflows, per trunk, per month 05

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.7 Design Blocking Probability (Cont'd.)

A. Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Average Business Day Measurements Per Trunk Group

For transmission paths carrying only first routed traffic direct between an end office and a Customer's premises without an alternate route, and paths carrying only overflow traffic, the measured blocking thresholds are as follows.

Number of Transmission Paths Per trunk Group	15-20 Meas.	11-14 Meas.	7-10 Meas.	3-6 Meas.
2	0.070	0.080	0.090	0.140
3	0.050	0.060	0.070	0.090
4	0.050	0.060	0.070	0.080
5-6	0.040	0.050	0.060	0.070
7 or more	0.040	0.035	0.040	0.060

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.7 Design Blocking Probability (Cont'd.)

B. Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Average Business Day Measurements Per Trunk Group

For transmission paths carrying only first routed traffic direct between an end office and a Customer's premises via an access tandem, the measured blocking thresholds are as follows.

Number of Transmission Paths Per trunk Group	15-20 Meas.	11-14 Meas.	7-10 Meas.	3-6 Meas.
2	0.045	0.055	0.060	0.095
3	0.035	0.040	0.045	0.060
4	0.035	0.040	0.045	0.055
5-6	0.025	0.035	0.040	0.045
7 or more	0.020	0.025	0.030	0.040

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.8 Measuring Access Minutes

- A. Customer traffic to end offices will be measured (i.e., recorded) by the Company at the end office switch(es) or access tandem switch(es). Originating and terminating calls will be measured (i.e., recorded) by the Company to determine the basis for computing chargeable access minutes. When assumed minutes are used, the assumed minutes are the chargeable access minutes.
- B. Feature Group B Usage Measurement
  - 1. For non-800 or non-900 originating calls over FGB, usage measurements begins when the originating FGB entry switch receives answer supervision forwarded from the Customer's point of termination, indicating the Customer's equipment has answered.
  - 2. The measurement of originating non-800 or non-900 call usage over FGB ends when the originating FGB entry switch received 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 entry switch.
  - 3. For originating 800 or 900 calls over FGB, usage measurement begins when the originating FGB switch receives answer supervision from the Customer's point of termination, indicating the called party has answered.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.8 Measuring Access Minutes (Cont'd.)

B. Feature Group B Usage Measurement (Cont'd.)

4. The measurement of originating 800 or 900 service call usage over FGB ends when the originating FGB entry switch receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the Customer's first point of termination, whichever is recognized first by the entry switch.
5. For terminating calls over FGB, usage measurements begins when the terminating FGB entry switch receives answer supervision for the Terminating end user's end office, indicating the terminating end user has answered.
6. The measurement of terminating call usage over FGB ends when the terminating FGB entry switch 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 entry switch.
7. When any or all the usage over an unmeasured FGB trunk originates from or terminates to a WAL service and the total FGB recorded at the WSO exceeds the assumed usage(s) set forth preceding, the recorded usage will be billed to the Customer in lieu of the assumed usage.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.8 Measuring Access Minutes (Cont'd.)

F. Feature Group D Usage Measurement

For originating calls over FGD, except calls utilizing SS7 signaling option, usage measurement begins when the originating FGD entry switch receives the first wink start supervisory signal forwarded from the Customer's point of termination. The measurement of originating call usage over FGD ends when the originating FGD entry switch 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 entry switch.

1. For terminating calls over FGD, the measurement of access minutes begins when the terminating FGD entry switch receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.
2. The measurement of terminating calls usage over FGD ends when the terminating FGD entry switch 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 entry switch.
3. For calls originating FGD with the SS7 signaling option, usage measurement for direct trunks begins when the FGD entry switch sends an initial address message. Usage measurement for tandem trunks begins when the FGD entry switch receives an exit message.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.9 Determining Mileage Measurement

- A. The mileage to be used to determine the tandem switched local transport facility or direct trunked transport channel mileage monthly rate is calculated on the airline distance between the end office switch where the call carried by the local transport originates and terminates and the Customer's serving wire center, except as forth in the following exceptions or in Section 6.2.2. The V&H coordinates method is used to determine mileage. This method is set forth in Section 2.10.2.
1. The tandem switched local transport facility mileage rate is shown in terms of per mile pre access minute. The rate billed is determined by first computing the 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; then the mileage is multiplied by the appropriate local transport facility rate.
  2. The direct trunked transport channel mileage rate is shown in terms of fixed and per mile per month. To determine the rate to be billed, first compute the mileage using the V& H coordinates method. If the calculation results in a fraction of a mile, always round up to the next mile before determining the mileage, then multiply the mileage by the appropriate channel mileage per mile rate. The amount to be billed shall be the product of this calculation plus the appropriate fixed channel mileage rate.
  3. When hubs are involved, mileage is computed and rates applied separately for each section of the channel mileage, i.e., serving wire center of Customer premises to a hub, hub to end office and / or hub to hub.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.9 Determining Mileage Measurement (Cont'd.)

A. (Cont'd.)

4. Mileage measurement for the CCSA STP Link Transport will be calculated on an airline basis, using the V&H coordinates method, between the serving wire center of the Customer's SPOI and the Company STP.

B. Excepts to Mileage Measurement Rules

1. When the alternate traffic routing optional feature is provided with FGB and FGD to provide service from an end office to different Customer premises locations, local transport access minutes will apportioned between two transmission routes used to provide this feature. For FGB and for FGD which is routed via an access tandem, such apportionment will be made using standard Company traffic engineering methodology, as set forth in SR-EOP-000191, trunk traffic engineering concepts and application and will be based in the last trunk CCS desired for the high usage groups, as specified in Section 6.4.2, preceding, and the relative capacity ordered to the end office, when the feature group is provided at an access tandem switch. For FGD which is directly routed, the apportionment will be based in the actual measured data which is recorded against the specific trunk group that carried a particular call. This apportionment will serve as the basis for the local transport facility mileage or channel mileage calculation. The Customer will be billed based on this apportionment.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.4 Responsibility of the Company (Cont'd.)

6.4.9 Determining Mileage Measurement (Cont'd.)

B. (Cont'd.)

2. When the direct trunked transport or tandem switched transport is provided to a host office, local transport facility mileage for access minutes originating from or terminating at a remote switching system or remote switching module will be calculated on an airline basis between the host office and the NXX location as shown in the NECA Tariff FCC No. 5.
3. When terminating FGB is provided from multiple Customer 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 in the basis of individual capacity, (i.e., busy hour minutes or trunks ordered for each of those trunk groups). The apportionment will serve as the basis for local transport facility mileage or channel mileage calculation. The Customer will be billed on this apportionment.
4. When direct trunked transport is ordered to an access tandem, the channel mileage measurement will be calculated on an airline basis using the V & H coordinates method, from the access tandem to the end office.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.5 Obligations of the Customer

6.5.1. Facility Requirements

- A. When ordering switched access service, the Customer must, at a minimum, specify the local transport entrance facility, either existing or new, to be used and whether direct trunked transport or tandem switched transport is to be furnished. When direct trunked transport is to be furnished, the Customer must also specify the direct trunked transport to be used, either existing or new.

6.5.2. Report Requirements

- A. Customers are responsible for providing the following reports or notification to the Company, when applicable.
1. Jurisdictional Reports - When a Customer orders switched access service for both interstate and intrastate use, the Customer is responsible for providing Jurisdictional Reports, from which charges will be apportioned.
  2. Code Screening Reports - When a Customer orders service class routing, the report must indicate 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.
  3. 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 Company. This data will be used to monitor trunk group utilization and service performance and will be based in previously arranged intervals and format. Regulations pertaining to this report are also contained in Section 6.4.5, preceding.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.5 Obligations of the Customer (Cont'd.)

6.5.3. Supervisory Signals

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

6.5.4. Design of Switched Access Services

- A. When a Customer orders switched access service on a per line basis, the Customer shall take reasonable steps to assure that sufficient access services have been ordered to handle traffic.

6.5.5. Determination of Number of Transmission Paths

- A. For FGB and FGD when ordered on a per line or pre trunk basis the Customer must specify the number of transmission paths in the order for service.
1. A transmission path is a communications path with the frequency bandwidth of approximately 300 to 3000 Hertz or a derived communications path of frequency bandwidth of approximately 300 to 3000 Hertz provided over a high frequency analog facility or a high speed digital facility between a Customer's premises and a Company location.
  2. The number of transmission paths will be developed using the total BHMC by traffic type (as described in Section 6.1.4., preceding) for the end offices for each feature group ordered from a Customer's premises. The total BHMC by type for the feature group end office will be converted to transmission paths using standard Company traffic engineering methods. The number of transmission paths provided shall be the number required based in the use of access tandem switches and end office switches, or the use of end office switches only, or the use of tandem switches only.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations

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

6.6.1 Description of Rates and Charges

There are three (3) types of rates and charges that apply to Switched Access Service. These are recurring rates, usage rates and nonrecurring charges. These rates and charges are applied directly to various rate elements as set forth following.

A. Recurring Rates

Recurring rates are flat rates that apply each month or fraction thereof that a specific rate element is provided. For billing purposes, each month is considered to have thirty (30) days.

B. Usage Rates

Usage rates are rates that apply only when a specific rate element is used. These are applied on a per access minute per occurrence (e.g., access minute, message call or query) basis. Usage rates are accumulated over a monthly period.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.1 Description of Rates and Charges (Cont'd.)

C. Nonrecurring Charges (NRCs)

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation of new services or rearrangements of installed services).

1. Installation of Service

- a. For switched access service which is ordered on a per line basis, the local switching NRC is applied per line or trunk.
- b. For switched access service which is ordered on a BHMC basis, the local switching NRC is also applied on a per trunk basis but the charge applies only when the capacity ordered requires the installation of additional trunks.
- c. The NRC for CCSA STP links is applied per link connection.
- d. NRCs will apply for the initial installation of an entrance facility and, if applicable the initial installation of channel mileage mid link and multiplexer. For each entrance facility of the same type (i.e., voice grade or DS1) ordered at the same time, for the same date and from the same Customer premises to the same serving wire center, the channel termination NRC will apply on a first and additional basis.

2. Installation of Optional Features

If a separate NRC applies for the installation of an optional feature, the charge applies whether the feature is installed coincident with the initial installation of service or at any time subsequent to the initial installation of service.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.1 Description of Rates and Charges (Cont'd.)

C. Nonrecurring Charges (NRCs) (Cont'd.)

3. Service Rearrangements

Service rearrangement are changes to existing installed which do not result in either a change in the minimum requirements as set forth in Section 2 or a change in physical location of the point of termination at the Customer's premises or a Customer's end user's premises. Changes which result in the establishment of new minimum period obligations are treated as discontinuances of existing service, and installations of new service, as specified in Section 6.6.3F, following. Changes in physical location of the point of termination are treated as moves, as specified in Section 6.6.3E. The charge to the Customer for the service rearrangement is dependent on whether the change is administrative only or involves an actual physical change to the service. The following administrative changes will be made without charge to the Customer.

- a. Change in Customer name
- b. 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.
- c. Change in billing data [name, address or contact name or telephone number].
- d. Change in agency authorization
- e. Change of Customer circuit identification
- f. Change in billing account number
- g. Change in Customer test line number
- h. Change of Customer or Customer's end user contact name or telephone number,.
- i. change of jurisdiction

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.1 Description of Rates and Charges (Cont'd.)

C. Nonrecurring Charges (NRCs) (Cont'd.)

3. Service Rearrangements (Cont'd.)

j. If, due to the technical limitation of the Company, it was impossible to combine 800 access service or 900 access service traffic with the Customer's other trunk side switched access services, no charge will be applied to combine the trunk groups when it becomes technically possible.

k. To redirect traffic from direct routed for 800 data base service, where the service is initially available at the end offices subtending a tandem to which Customers have redirected their 800 traffic, Customers will be allowed to rearrange their 800 traffic from tandem routed to direct routed at no charge provided the same Customer premises is maintained.

l. Change in billing option within the same access tandem from tandem switched transport to direct trunked transport or vice versa.

4. All Other Service Rearrangements - will be charged as follows.

a. If the change involves the addition of an optional feature which has a separate NRC, that NRC will apply.

b. If the change involves a modification to a FGB or FGD to include initial provision of 900 access services in addition to non 900 access services traffic, the local switching NRC will apply for service rearrangements in the existing trunks.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.1 Description of Rates and Charges (Cont'd.)

C. Nonrecurring Charges (NRCs) (Cont'd.)

4. All Other Service Rearrangements (Cont'd.)

- c. Subsequent to the initial installation of 900 access services, any change involving the addition or deletion of a 900 NXX code will be subject to the applicable switched access rates.
- d. If the change involves the rearrangement of existing switched access services from one interface group to another (i.e., change a digital group to one capable of a greater bit rate), a digital to digital rearrangement charge will apply. No charge applies to the individual switched services provided within the interface group unless the Customer changes the service type or changes only a portion of the individual services from interface group to the other, in which case, the appropriate NRC for each change will apply.
- e. For all other changes, including the addition of or modification to, optional features without separate NRCs, a charge equal to the local switching NRC will apply. When an optional feature is not required on each transmission path, but rather for an entire transmission group, an end office or an access tandem switch, only one such charge will apply (i.e., it will not apply per transmission path).

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.1 Description of Rates and Charges (Cont'd.)

C. Nonrecurring Charges (NRCs) (Cont'd.)

4. All Other Service Rearrangements (Cont'd.)

- f. In the event that a Customer who does not provide operator assistance for its end users requests a change in its designated operator services traffic arrangement, a service rearrangement charge will apply. A first TOPS office rearrangement charge will apply for the first TOPS office affected by the change, and an additional TOPS office rearrangement will apply for each additional TOPS office affected if ordered at the same time and for the same date.
- g. If the change involves the conversion of existing FGD services with multifrequency address signaling to FGD with SS7 signaling option, a rearrangement charge will apply for the first trunk converted and an additional trunk rearrangement charge for each additional trunk ordered and converted at the same time.
- h. If the change involves a change of point code on FGD with the SS7 signaling option, a rearrangement charge will apply on a first and additional basis for all orders placed at the same time, between the same two points and for the same due date.
- i. If the change involves the rearrangement of an existing Company provided switched access service FGB or FGD into a Company provided switched access service under a collocation arrangement, or from one Company provided collocation arrangement to another within the same Company serving wire center, access tandem or remote node a rearrangement charge will apply for each service.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.1 Description of Rates and Charges (Cont'd.)

C. Nonrecurring Charges (NRCs) (Cont'd.)

4. All Other Service Rearrangements (Cont'd.)

- j. if the change involves the rearrangement of a Company provided access under FGB or FGD provided under a collocation arrangement to a Company provided switched access service, a rearrangement charge will apply for each service reconfiguration.

5. Moves

A move involves a change in physical location of the point of termination at the Customer's premises, or a change in the physical location of the Customer premises. The charges for the move are dependent on whether the move is to a new location within the same building to a different building.

1. Moves within the Same Building

When a move is to a new location within the same building, the charge for the move will be the local switching NRCs for the capacity affected.

2. Moves to a Different Building

Moves to a Different Building, will be treated as a discontinuance and start of service and all associated NRCs 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.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.1 Description of Rates and Charges (Cont'd.)

C. Nonrecurring Charges (NRCs) (Cont'd.)

6. Discontinuances of Existing Service and Installations of New Services

Changes from one type of feature group to another, including changes to dedicated 800 access service trunks or 900 access service trunks, will be treated as a discontinuance of type of service and a start of another. Full NRCs (i.e., installations) will apply, with the following exceptions:

- a. When a Customer upgrades from a switched access service Feature Group to FGB or FGD service, the NRC will not apply if the following conditions are met.
  - i. The same Customer premises is maintained and,
  - ii. The orders for disconnect of the FGB service and the start of the FGD service are placed with the Company at the same time, and
  - iii. The Customer requests the same effective date for both the disconnect of service and start of service orders. When the effective dates for the disconnect and start of service are the same, the minimum period obligations will not change, (i.e., the time elapsed in the existing minimum period obligations will be credited to the minimum period obligations to the FGD). When the effective dates for the disconnect and start of service are different, new minimum period obligations will be established for FGD service.
- b. For all other changes from one type of feature group to another, new minimum period obligations will also be established.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.2 Rate Periods

- A. Local transport termination, local transport facility tandem switching interconnection and local switching rates are subject to time differentiation (time periods). When usage begins in one rate period and ends in another the rates in effect for the rate period in which such usage began will apply until rate period specific billing can be implemented.
1. Peak Rates apply Monday through Friday 9AM to, but not including, 9PM.
  2. The off-peak discounts applies Monday through Thursday 9PM to, but not including 9AM, and from Friday 9PM to, but not including 9AM Monday.
  3. On Christmas Day (December 25) New Years Day (January 1), Independence Day (July 4), Thanksgiving Day (the fourth Thursday in November) and Labor Day, the holiday discount is the Off-Peak Rate.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.3 Application of Local Transport Rates

- A. The local transport termination rate is applied per minute of use.
- B. The local transport facility rate is applied per mile, per minute of use. When the local transport facility mileage is zero (i.e., the end office switch or WSO, as appropriate and the Customer's serving wire center are collocated), the local transport facility rate does not apply.
- C. The tandem switching rate is applied per minute of use.
- D. The interconnection charge is applied per minute of use.
- E. For the direct trunked transport, the channel mileage applies on a fixed and a per mile monthly basis.
- F. When the direct trunked transport is provided to an end office which is a host office, in addition to the appropriate channel mileage monthly rate, the Customer will be billed the local transport termination rate on a per minute of use basis and the local transport facility rate on a per mile per minute for the transport of the call to or from an RSS or RSM. The mileage for local transport facility rate element will be measured from the host office to the RSS or RSM. The Calculation of the mileage is set forth in Section 6.4, preceding.
- G. For direct trunked transport provided to an access tandem, the channel mileage applies on a fixed and per mile basis between the serving wire center and the access tandem. The per mile per minute local transport facility and the per minute local transport termination rates apply for the transport from the access tandem to the end office. The per minute tandem switching rate applies to all minutes of use switched at the access tandem. The channel mileage calculation is set forth in Section 6.4.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.3 Application of Local Transport Rates (Cont'd.)

- H. For tandem switched transport, the local transport termination rate, the tandem switching rate and the interconnection charge apply per access minute, The local transport facility rate applies per mile per access minute.
- I. When tandem switched transport is provided to an end office which is the host office, in addition to the rates set forth in Section 6.6.5D, the Customer will be billed the local transport termination rate per minute of use and the local transport facility rate per mile per minute for the transport of the call to or from a RDD or RSM. The mileage for the local transport facility will be measured from the host office to the RSS or RSM. The calculation of the mileage is as set forth in Section 6.4, preceding.

6.6.4 Local Switching

Local Switching rate is applied in a per minute of use.

6.6.5 Minimum Monthly Charge

A minimum monthly charge shall apply to all switched access service. The minimum charge shall apply per feature group, per feature group Customer location.

6.6.6 Operator Pass-through

The operator pass-through charge will apply on a per call passed through basis.

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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.7 800 Data Base Access

The 800 data base access service carrier identification charge applies to 800 access service. It is assessed to the Interexchange Carrier on a per query basis.

6.6.8 Optional Features

- A. CCSA is comprised of a STP link termination rate, a STP link transport rate and a STP port rate. The NRC for CCSA STP links is applied per link connection.
1. The STP link termination rate provides for the connection from the Customer designated premises to the service wire center and applies on a per month basis.
  2. The STP port rate provides for the point of termination to the signal switching capability of the STP and applies on a per month basis.

**CTC Communications Corp.**  
**d/b/a EarthLink Business**  
1170 Peachtree Street NE, Suite 900  
Atlanta, GA 30309  
Issued By: Vice President, Tax

New Hampshire Tariff No. 1  
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**SECTION 6 - SWITCHED ACCESS SERVICE (CONT'D.)**

6.6 Rate Regulations (Cont'd.)

6.6.9 Local Information Delivery Services

- A. Calls over switched access in the terminating direction to certain community information services will be rated under the applicable rates for switched access service. In addition, the rates and charges per call as specified in New Hampshire Tariff No. 1, will also apply.

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**SECTION 7 – PRESUBSCRIBED INTEREXCHANGE CARRIER CHARGE (PICC)**

7.1 Presubscribed Interexchange Carrier Charge (PICC)

The Presubscribed Interexchange Carrier Charge (PICC) is a monthly charge imposed by the Company on IXC's for multi-line business, ISDN-PRI and T-1 Customers served by the Company who subscribe to the IXC's long distance service. For ISDN-PRI and T-1 Customers, the Company will assess five (5) PICC charges per circuit. An IXC selected by the Customer for both their interLATA and intraLATA long distance service will be subject to a single PICC per line. This charge will not be prorated for a partial month of service, is not subject to any discounting and does not contribute to any monthly minimums.

7.1.1 Presubscribed Interexchange Carrier Charge (PICC)

	RATE
A. per presubscribed multi-line business Customer line	\$4.31
B. per Centrex line	\$0.47
C. per ISDN-PRI or T-1 facility	\$21.55

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**SECTION 8 - RATES AND CHARGES**

8.1 Carrier Common Line Access Service

8.1.1 Carrier Common Line

A. Switched Access Service

Rates

Originating - per access minute	\$0.02649400
Terminating - per access minute	See Note*

B. 800 Data Base Access Service

Rates

Originating - per access minute	\$0.026494
Terminating - per access minute	See Note*

8.2 Billing Name and Address Service

8.2.1 Service Establishment Charge

Nonrecurring Charge	\$150.00
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8.2.2 Per Telephone Number by

Rates

Verbal Request, per request	\$0.58
Written Request, per request	\$0.58

\* See the Company's Access Service Tariff, FCC Tariff No. 4, Section 13.5.

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**SECTION 8 - RATES AND CHARGES (CONT'D.)**

8.3 Access Service Order

8.3.1 Service Date Change

Nonrecurring Charge, per order	\$150.00
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8.3.2 Design Change

Nonrecurring Charge, per order	\$150.00
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8.4 Switched Access Service

8.4.1 Entrance Facility

A. Standard Channel Terminations

	Nonrecurring Charges		
	<u>First</u>	<u>Additional</u>	<u>Monthly</u>
2-Wire, Voice Grade	\$263.85	\$179.85	\$36.14
4-Wire, Voice Grade	\$375.68	\$251.11	\$59.00
DS1, 1.544 Mbps	\$618.09	\$353.52	\$221.48

B. Office Channel Termination (OCT)  
Cross Connect

	Nonrecurring <u>Charge</u>	Monthly <u>Charge</u>
DS1, per termination	\$270.66	\$5.31

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**SECTION 8 - RATES AND CHARGES (CONT'D.)**

8.4 Switched Access Service (Cont'd.)

8.4.2 Direct Trunked Transport

A. Channel Terminations

	<u>Monthly Charges</u>	
	<u>Fixed</u>	<u>Per Mile</u>
2-Wire, Voice Grade	\$33.99	\$3.89
4-Wire, Voice Grade	\$33.99	\$3.89
DS1, 1.544 Mbps	\$66.00	\$21.25

B. Mid Link

	<u>Nonrecurring Charge</u>	<u>Monthly Charge</u>
DS1, 1.544 Mbps	\$526.52	\$0.00

8.4.3 Tandem Switched Transport - Local Transport Termination

A. Switched Access Service

	<u>Rates</u>
Originating, per access minute	\$0.000716
Terminating, per access minute	See Note*

B. 800 Database Access Service

	<u>Rates</u>
Originating, per access minute	\$0.000716
Terminating, per access minute	See Note*

\* See the Company's Access Service Tariff, FCC Tariff No. 4, Section 13.5.

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**SECTION 8 - RATES AND CHARGES (CONT'D.)**

8.4 Switched Access Service (Cont'd.)

8.4.4 Tandem Switched Transport - Local Transport Facility

A. Switched Access Service

	<u>Rates</u>
Originating, per access minute	\$0.000004
Terminating, per access minute	See Note*

B. 800 Database Access Service

	<u>Rates</u>
Originating, per access minute	\$0.000004
Terminating, per access minute	See Note*

8.4.5 Tandem Switched Transport - Tandem Switching

A. Switched Access Service

	<u>Rates</u>
Originating, per access minute	\$0.000503
Terminating, per access minute	See Note*

B. 800 Data Base Access Service

	<u>Rates</u>
Originating, per access minute	\$0.000503
Terminating, per access minute	See Note*

\* See the Company's Access Service Tariff, FCC Tariff No. 4, Section 13.5.

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**SECTION 8 - RATES AND CHARGES (CONT'D.)**

8.4 Switched Access Service (Cont'd.)

8.4.6 Interconnection Charge

A. Switched Access Service

	<u>Rates</u>
Originating, per access minute	\$0.000000
Terminating, per access minute	See Note*

B. 800 Data Base Access Service

	<u>Rates</u>
Originating, per access minute	\$0.000000
Terminating, per access minute	See Note*

8.4.7 Local Transport – Other

A. Installation

	<u>Rates</u>
NRC, per line or trunk	\$95.00

B. Service Rearrangement

1. 0 - Passthrough - Change in Operator	
	<u>Rates</u>
Service Traffic Arrangement - NRC Per First TOPs office rearranged	\$169.82
2. 0- Passthrough - Change in Operator	
	<u>Rates</u>
Service Traffic Arrangement - NRC Per Additional TOPs office rearranged	\$108.98
3. SS7 Signaling Option Conversion	
	<u>Rates</u>
First trunk converted	\$0.00
4. SS7 Signaling Option Conversion	
	<u>Rates</u>
Additional trunk converted	\$0.00

\* See the Company's Access Service Tariff, FCC Tariff No. 4, Section 13.5.

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**SECTION 8 - RATES AND CHARGES (CONT'D.)**

8.4 Switched Access Service (Cont'd.)

8.4.7 Local Transport – Other (Cont'd.)

C. Common Channel Signaling Access

	<u>Rates</u>
STP Link Termination - NRC	\$155.00
STP Link Termination - Monthly	\$71.48
STP Link Transport - Fixed - Monthly	\$30.12
STP Link Transport - Per Mile - Monthly	\$1.98

D. Common Channel Signaling Access

	<u>Rates</u>
STP Link Transport, per mile monthly	\$1.98
STP Port, Monthly	\$450.00

E. SS7 Point Code Change Charge

	<u>Rates</u>
Initial - NRC	\$136.37
Additional - Each - Monthly	\$15.80

F. DS1 to Voice Multiplexing

	<u>Rates</u>
Per arrangement NRC	\$0.00
Per Arrangement - Monthly	\$291.38

\* See Section 13.5 of the Company's FCC Access Tariff, Tariff No. 4, for the current rates.

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**SECTION 8 - RATES AND CHARGES (CONT'D.)**

8.4 Switched Access Service (Cont'd.)

8.4.8 Local Switching

A. Switched Access Service

	<u>Rates</u>
Originating, per access minute	\$0.001934
Terminating, per access minute	See Note*

B. 800 Database Access Service

	<u>Rates</u>
Originating, per access minute	\$0.001934
Terminating, per access minute	See Note*

C. Installation

	<u>Rates</u>
NRC - per line or trunk	\$60.00

D. Carrier Identification Parameter

	<u>Rates</u>
NRC - Per trunk group	\$70.00
Monthly - Per trunk group	\$60.00

\* See the Company's Access Service Tariff, FCC Tariff No. 4, Section 13.5.

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**SECTION 8 - RATES AND CHARGES (CONT'D.)**

8.4 Switched Access Service (Cont'd.)

8.4.9 800 Data Base Access Service Rates and Charges

A. Customer Identification Charge

	<u>Rates</u>
Per Query	\$0.003981

B. 800 to POTS Number Translation

	<u>Rates</u>
Per Query	\$0.001580

C. Call Handling Destination Feature

	<u>Rates</u>
Per Query	\$0.003466

8.4.10 Shared Billing Arrangement

	<u>Rates</u>
Processing charge, per service order	\$26.00

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**SECTION 8 - RATES AND CHARGES (CONT'D.)**

8.5 IntraLATA Pre-Subscription (ILP) Services

8.5.1 IntraLATA Pre-Subscription (ILP)

A. ILP PIC Charge

Intra-State, Intra-LATA - NRC	<u>Rates</u>
Per Telephone Exchange service line or Trunk	\$5.00

8.5.2 PIC Verification Service

A. PIC Verification - NRC - Verbal Request

Per Telephone Number – per successful verification	<u>Rates</u>
	\$1.35

B. PIC Verification - NRC - Electronic Request

Per Telephone Number – per successful verification	<u>Rates</u>
	\$0.60

8.5.3 Intrastate Equal Access Cost Recovery

A. Intrastate Equal Access Cost Recovery

Monthly - per originating minute of use	<u>Rates</u>
	\$0.00000