

D&E SYSTEMS, INC.

d/b/a

D&E COMMUNICATIONS

ACCESS SERVICE

Tariff F.C.C. No. 4 is the successor Tariff to
CEI Networks, Inc. Tariff F.C.C. No. 2
and
D&E Systems, Inc. Tariff F.C.C. No. 3

Transmittal No. 1

Issued: August 2, 2007

Effective: August 6, 2007

By: Mr. Leonard Beurer, Vice President Regulatory and Carrier Relations
D&E Systems, Inc., 124 East Main Street
Ephrata, Pennsylvania 17522

D&E Systems, Inc.
d/b/a D&E Communications

First Revised Sheet A
Canceling Original Sheet A

CHANGES MADE BY THIS TARIFF

| SHEETS AFFECTED BY THIS SUPPLEMENT | CHANGES MADE BY THIS SUPPLEMENT |
|---|---|
| Table of Contents, Preface, First Revised Page 2 | Added 4.5 Additional Engineering, Additional Labor and Miscellaneous Services |
| Section 2, REGULATIONS, First Revised Page 42 | Revised text - - does not revise rate or regulation. |
| Section 3, SERVICE AND RATE DESCRIPTIONS, First Revised Page 22 | Revised text - - does not revise rate or regulation. |
| Section 3, SERVICE AND RATE DESCRIPTIONS, First Revised Pages 26-28 | Revised text - - does not revise rate or regulation. |
| Section 4, MISCELLANEOUS SERVICES, First Revised Page 2 | Modify Billing Name and Address (BNA) language. |
| Section 4, MISCELLANEOUS SERVICES, Original Pages 13-20 | Adding Miscellaneous Services. |
| Section 5, RATES, First Revised Page 1 | Correction of rate – typographical error in original filing. |
| Section 5, RATES, First Revised Page 3 | Increased Rate at 5.1.3 (B) Remove text. Duplicate rates found at 5.1.6 (3) |
| Section 5, RATES, First Revised Page 7 | Increase in Tandem-Switched Transport and Direct Trunked Transport monthly rates. |
| Section 5, RATES, First Revised Page 19 | Reduced Monthly rates for Subscriber Line Charge; Remove footnote language |
| Section 5, RATES, Original Page 22-27 | Added Rates for Miscellaneous Services added in Section 4, Page 13-20 above. |

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Ephrata, Pennsylvania 17522

D&E Systems, Inc.
d/b/a D&E Communications

Check Sheet
6th Revised Sheet B
Cancels 5th Revised Sheet B

CHECK SHEET

| | |
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| Sheet A | 1 st Revised |
| Sheet B | 6th Revised* |
| Sheet C | 4th Revised* |
| Preface Page 1 | Original |
| Preface Page 2 | 1 st Revised |
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*Pages included in this filing.

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By: Mr. Leonard Beurer, Vice President Regulatory and Carrier Relations
D&E Systems, Inc., 124 East Main Street
Ephrata, Pennsylvania 17522

D&E Systems, Inc.
d/b/a D&E Communications

Check Sheet
4th Revised Sheet C
Cancels 3rd Revised Sheet C

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By: Mr. Leonard Beurer, Vice President Regulatory and Carrier Relations
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D&E Systems, Inc.
d/b/a D&E Communications

Preface - Original Page 1

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d/b/a D&E Communications

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By: Mr. Leonard Beurer, Vice President Regulatory and Carrier Relations
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D&E Systems, Inc.
d/b/a D&E Communications

Preface – Original Page 3

EXPLANATION OF SYMBOLS, REFERENCE
MARKS, AND ABBREVIATIONS OF TECHNICAL
TERMS USED IN THIS TARIFF

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

| | |
|---|--|
| C | To signify changed regulation or rate structure. |
| D | To signify discontinued material. |
| I | To signify an increased rate. |
| M | To signify matter relocated without change. |
| N | To signify new rate or regulation |
| R | To signify reduction to a rate or charge. |
| S | To signify matter reissued without change. |
| T | To signify a change in text but no change in rate or regulation. |
| Z | To signify a correction. |

Issued: December 30, 2005

Effective: January 1, 2006

By: Mr. Leonard Beurer, Vice President Regulatory and Carrier Relations
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Ephrata, Pennsylvania 17522

D&E Systems, Inc.
d/b/a D&E Communications

Tariff F.C.C. No. 4
Preface - Original Page 4

APPLICATION

This tariff applies to interstate access service supplied to customers for origination and termination of traffic to and from Central Office codes directly assigned to D&E Systems, Inc. d/b/a D&E Communications hereafter referred to as the “Company” or “D&E.”

Issued: December 30, 2005

Effective: January 1, 2006

By: Mr. Leonard Beurer, Vice President Regulatory and Carrier Relations
D&E Systems, Inc., 124 East Main Street
Ephrata, Pennsylvania 17522

DEFINITIONS

Certain terms used generally throughout this tariff are described below.

| <u>TERM</u> | <u>DEFINITION</u> |
|----------------------------------|---|
| <u>Access Services</u> | The Company's interstate telephone services offered pursuant to this Tariff. |
| <u>Advance Payment</u> | Part or all of a payment required before the start of service |
| <u>Company</u> or <u>D&E</u> | D&E Systems, Inc. d/b/a D&E Communications the issuer of this Tariff |
| <u>Customer</u> | The person, firm or corporation which orders service and is responsible for the payment of charges and compliance with the Company's regulations. |
| <u>End User</u> | A person or entity that subscribes to any D&E Exchange Access Service offered under the Company's intrastate tariff and that has been assigned one or more telephone number(s) within a central office code (NPA-NXX) directly assigned to the Company. |
| <u>End Office</u> | With respect to each NPA-NXX code prefix assigned to the Company, the location of the Company's "end-office" for purposes of this Tariff shall be the point of interconnection associated with that NPA-NXX code in the Local Exchange Routing Guide. |

DEFINITIONS (continued)

| <u>TERM</u> | <u>DEFINITION</u> |
|----------------------------------|--|
| <u>LATA</u> | 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 F.C.C. NO. 4. |
| <u>Recurring Charges</u> | The monthly charges to the Customer for services, facilities and equipment which continue for the agreed upon duration of the service. |
| <u>Service Commencement Date</u> | The first date on which the Company notifies the Customer that the requested service or facility is available for use, unless extended by the Customer's refusal to accept service which does not conform to standards set forth in the Service Order of this tariff, in which case the Service Commencement Date is the date of the Customer's acceptance. The Company and the Customer may mutually agree on a substitute Service Commencement Date. If the Company does not have an executed Service Order from a customer, the Service Commencement Date will be the first date on which the service or facility was used by a customer. |
| <u>Service Order</u> | The written request for access services executed by the Customer and the Company in the format devised by the Company. The signing of a Service Order by the Customer and acceptance by the Company initiates the respective obligations of the parties as set forth therein and pursuant to this tariff, but the duration of the service is calculated from the Service Commencement Date. Should a customer use the Company's access service without an executed Service Order, the Company will then require the Customer to submit a Service Order. |

DEFINITIONS (continued)

| <u>TERM</u> | <u>DEFINITION</u> |
|----------------------------|---|
| <u>Serving Wire Center</u> | The wire center from which the Customer designated premises would normally obtain dial tone from the Company. |
| <u>Shared</u> | A facility or equipment system or subsystem that can be used simultaneously by several Customers. |
| <u>User</u> | A Customer or any other person authorized by the Customer to use service provided under this Tariff. |
| <u>Wire Center</u> | A building in which one or more central offices, used for the provision of Exchange Services, are located. |

REGULATIONS

2.1 Undertaking of the Company

2.1.1 Scope

The Company undertakes to furnish access services in accordance with the terms and conditions set forth in this Tariff.

2.1.2 Shortage of Facilities

All service is subject to the availability of suitable facilities. The Company reserves the right to limit the length of communications or to discontinue furnishing services when necessary because of the lack of transmission medium capacity or because of any causes beyond its control.

2.1.3 Terms and Conditions

- A) Service is provided on the basis of a minimum period of at least one month, 24-hours per day. For the purpose of computing charges in this tariff, a month is considered to have 30 days.
- B) Customers may be required to submit written service orders which shall contain or reference a specific description of the service ordered, the rates to be charged, 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 its legal fees and court costs from the non-prevailing party in addition to other relief a court may award.

REGULATIONS

2.1 Undertaking of the Company (cont'd.)

2.1.4 Limitations on Liability

- A) Except as otherwise stated in this section, the liability of the Company for damages arising out of either: (1) the furnishing of its services, including but not limited to mistakes, omissions, interruptions, delays, or errors, or other defects, representatives, or use of these services or (2) the failure to furnish its service, whether caused by acts or omission, shall be limited to the extension of allowances to the Customer for interruptions in service as set forth in Section 2.7.
- B) Except for the extension of allowances to the Customer for interruptions in service as set forth in Section 2.7, the Company shall not be liable to a Customer or third party for any direct, indirect, special, incidental, reliance, consequential, exemplary or punitive damages, including, but not limited to, loss of revenue or profits, for any reason whatsoever, including, but not limited to, any act or omission, failure to perform, delay, interruption, failure to provide any service or any failure in or breakdown of facilities associated with the service.
- C) The liability of the Company for errors in billing that result in overpayment by the Customer shall be limited to a credit equal to the dollar amount erroneously billed or, in the event that payment has been made and service has been discontinued, to a refund of the amount erroneously billed.

REGULATIONS

2.1 Undertaking of the Company (cont'd.)

2.1.4 Limitations on Liability (cont'd.)

D) The Company shall not be liable for any claims for loss or damages involving:

- 1) Any act or omission of: (a) the Customer, (b) any other entity furnishing service, equipment or facilities for use in conjunction with services or facilities provided by the Company; or (c) common carriers;
- 2) Any delay or failure of performance or equipment due to causes beyond the Company's control, including but not limited to, acts of God, fires, floods, earthquakes, hurricanes, or other catastrophes; national emergencies, insurrections, riots, wars or other civil commotions; strikes, lockouts, work stoppages or other labor difficulties; criminal actions taken against the Company; unavailability, failure or malfunction of equipment or facilities provided by the Customer or third parties; and any law, order, regulation or other action of any governing authority or agency thereof;
- 3) Any unlawful or unauthorized use of the Company's facilities and services;

REGULATIONS

2.1 Undertaking of the Company (cont'd.)

2.1.4 Limitations on Liability (cont'd.)

D) (cont'd.)

- 4) Libel, slander, invasion of privacy or infringement of patents, trade secrets, or copyrights arising from or in connection with the transmission of communications by means of Company-provided facilities or services; or by means of the combination of Company-provided facilities or services with Customer-provided facilities or services;
- 5) Breach in the privacy or security of communications transmitted over the Company's facilities;
- 6) Changes in any of the facilities, operations or procedures of the Company that render any equipment, facilities or services provided by the Customer obsolete, or require modification or alteration of such equipment, facilities or services, or otherwise affect their use or performance, except where reasonable notice is required by the Company and is not provided to the Customer, in which event the Company's liability is limited as set forth in section 2.1.4, preceding.
- 7) Defacement of or damage to Customer premises resulting from the furnishing of services or equipment on such premises or the installation or removal thereof.

REGULATIONS

2.1 Undertaking of the Company (cont'd.)

2.1.4 Limitations on Liability (cont'd.)

D) (cont'd.)

- 8) Injury to property or injury or death to persons, including claims for payments made under Workers' Compensation law or under any plan for employee disability or death benefits, arising out of, or caused by, any act or omission of the Customer, or the construction, installation, maintenance, presence, use or removal of the Customer's facilities or equipment connected, or to be connected to the Company's facilities;
- 9) Any intentional, wrongful act of a Company employee when such act is not within the scope of the employee's responsibilities for the Company and/or is not authorized by the Company;
- 10) Any representations made by Company employees that do not comport, or that are inconsistent, with the provisions of this Tariff.
- 11) Any noncompletion of calls due to network busy conditions;
- 12) Any calls not actually attempted to be completed during any period that service is unavailable.

REGULATIONS

2.1 Undertaking of the Company (cont'd.)

2.1.4 Limitations on Liability (cont'd.)

- E) The Company shall be indemnified, defended and held harmless by the Customer or end user from and against any and all claims, loss, demands, suits, expense, or other action or any liability whatsoever, including attorney fees, whether suffered, made, instituted, or asserted by the Customer or by any other party, for any personal injury to or death of any person or persons, and for any loss, damage or destruction of any property, including environmental contamination, whether owned by the Customer or by any other party, caused or claimed to have been caused directly or indirectly by the installation, operation, failure to operate, maintenance, presence, condition, location, use or removal of any Company or Customer equipment or facilities or service provided by the Company.
- F) The Company does not guarantee nor make any warranty with respect to installations provided by it for use in an explosive atmosphere. The Company shall be indemnified, defended and held harmless by the Customer from and against any and all claims, loss, demands, suits, or other action, or any liability whatsoever, including attorney fees, whether suffered, made, instituted or asserted by the Customer or by any other party, for any personal injury to or death of any person or persons, and for any loss, damage or destruction of any property, including environmental contamination, whether owned by the Customer or by any other party, caused or claimed to have been caused directly or indirectly by the installation, operation, failure to operate, maintenance, presence, condition, location, use or removal of any equipment or facilities or the service.

REGULATIONS

2.1 Undertaking of the Company (cont'd.)

2.1.4 Limitations on Liability (cont'd.)

- G) The Company assumes no responsibility for the availability or performance of any cable or satellite systems or related facilities under the control of other entities, or for other facilities provided by other entities used for service to the Customer, even if the Company has acted as the Customer's agent in arranging for such facilities or services. Such facilities are provided subject to such degree of protection or nonpreemptibility as may be provided by the other entities.
- H) Except as otherwise stated in this Tariff, any claim of whatever nature against the Company shall be deemed conclusively to have been waived unless presented in writing to the Company within sixty (60) days after the date of the occurrence that gave rise to the claim.
- I) 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.

REGULATIONS

2.1 Undertaking of the Company (cont'd.)

2.1.5 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.

REGULATIONS

2.1 Undertaking of the Company (cont'd.)

2.1.6 Ownership of Facilities

Title to all facilities provided in accordance with this tariff remains in the Company, its agents, contractors or suppliers.

2.2 Prohibited Uses

- A) 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.
- B) 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.
- C) The Company may require a Customer to immediately shut down its transmission if such transmission is causing interference to others.
- D) 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.

REGULATIONS

2.3 Obligations of the Customer

2.3.1 Customer Premises Provisions

- A) The Customer shall provide the personnel, power and space required to operate all facilities and associated equipment installed on the premises of the Customer.
- B) The Customer shall be responsible for providing Company personnel access to premises of the Customer at any reasonable hour for the purpose of testing the facilities or equipment of the Company.

2.3.2 Liability of the Customer

- A) The Customer will be liable for damages to the facilities of the Company and for all incidental and consequential damages caused by the negligent or intentional acts or omissions of the Customer, its officers, employees, agents, invitees, or contractors where such acts or omissions are not the direct result of the Company's negligence or intentional misconduct.

REGULATIONS

2.3 Obligations of the Customer (cont'd.)

2.3.2 Liability of the Customer (cont'd.)

- B) To the extent caused by any negligent or intentional act of the Customer as described in (A), preceding, the Customer shall indemnify, defend and hold harmless the Company from and against all claims, actions, damages, liabilities, costs and expenses, including reasonable attorneys' fees, for (1) any loss, destruction or damage to property of any third party, (2) the death of or injury to persons, including, but not limited to, employees or invitees of either party, and (3) any liability incurred by the Company to any third party pursuant to this or any other tariff of the Company, or otherwise, for any interruption of, interference to, or other defect in any service provided by the Company to such third party.
- C) The Customer shall not assert any claim against any other Customer or user of the Company's services for damages resulting in whole or in part from or arising in connection with the furnishing of service under this Tariff including but not limited to mistakes, omissions, interruptions, delays, errors or other defects or misrepresentations, whether or not such other Customer or user contributed in any way to the occurrence of the damages, unless such damages were caused solely by the negligent or intentional act or omission of the other Customer or user and not by any act or omission of the Company. Nothing in this Tariff is intended either to limit or to expand Customer's right to assert any claims against third parties for damages of any nature other than those described in the preceding sentence.

REGULATIONS

2.3 Obligations of the Customer (cont'd.)

2.3.3 Jurisdictional Report Requirements

- A) For Feature Group B Switched Access Service(s) for both originating and terminating usage, a projected Percentage of Interstate Usage (PIU) must be provided by the Customer to the Company. When a Customer orders Feature Group B Switched Access Service, the Customer shall state, in its order, the projected PIU factor for each Feature Group B Switched Access Service group ordered. The formula for developing PIU is as follows in Section 2.3.3 (B) below.
- B) For Feature Group D Switched Access Service(s), the Company, where jurisdiction can be determined from call detail, will determine the PIU as follows:
 - 1) For originating access minutes, the PIU will be developed on a monthly basis, by end office trunk group, by dividing the measured interstate originating access minutes (the access minutes where the calling number is in one state and the called number is in another state) by the total originating access minutes.

REGULATIONS

2.3 Obligations of the Customer (cont'd.)

2.3.3 Jurisdictional Report Requirements (cont'd.)

B) (cont'd.)

- 2) For terminating access minutes, the Customer has the option to provide the Company with a projected PIU factor. Customers who provide a PIU factor shall supply the Company with an interstate percentage of the Feature Group D terminating access minutes for each account to which the Customer may terminate traffic. Should the Customer not supply a terminating PIU factor, the data used by the Company to develop the PIU for originating access minutes will be used to develop the PIU for such terminating access minutes.
- 3) When a Customer orders Feature Group D Switched Access Service, the Customer shall supply a projected PIU for each end office trunk group involved to be used in the event that originating call detail is insufficient to determine the jurisdiction of the usage. For purposes of developing the PIU, the Customer shall utilize the same considerations as those set forth in Section 2.3.3 (C) following.

REGULATIONS

2.3 Obligations of the Customer (cont'd.)

2.3.3 Jurisdictional Report Requirements (cont'd.)

- C) Where the call detail data is insufficient to develop jurisdiction, the Customer must provide the Company with a PIU using the following steps:
- 1) For purposes of developing the PIU, the Customer shall consider every call that enters the Customer's network at a point within the same state as the state where the called station is located to be intrastate and every call that enters the Customer's network at a point in a state different from the state in which the called station is located to be interstate.
 - 2) A whole number percentage will be used by the Company to apportion the usage, monthly recurring, and/or nonrecurring charges between interstate and intrastate until a revised report is received
- D) The projected interstate percentage of use will be used to determine the charges as follows:

The number of access minutes for a trunk group will be multiplied by the projected interstate percentage of use to determine the interstate access minutes. (i.e., number of access minutes x projected interstate percentage of use = interstate access minutes).

REGULATIONS

2.3 Obligations of the Customer (cont'd.)

2.3.3 Jurisdictional Report Requirements (cont'd.)

- E) Effective on the first of January, April, July and October of each year, the Customer may update the jurisdictional reports that require a projected interstate percentage. The Customer shall forward to the Company, to be received no later than 20 calendar days after the first of each such month, a revised report showing the interstate percentage of use for the past three months ending the last day of December, March, June and September, respectively, for each service arranged for interstate and intrastate use. Except as set forth in Section 2.3.3(A) preceding where jurisdiction can be determined from the recorded message detail, the revised report will serve as the basis for the next three months billing and will be effective on the bill date in the following month (i.e., February, May, August, and November) for that service. No prorating or back billing will be done based on the report. If the Customer does not supply the report, the Company will assume the percentage to be the same as that provided in the last quarterly report. For those cases in which a quarterly report has never been received from the Customer, the Company will assume the percentage to be the same as that provided in the order for service as set forth in Section 2.3.3(A) preceding.

REGULATIONS

2.3 Obligations of the Customer (cont'd.)

2.3.3 Jurisdictional Report Requirements (cont'd.)

- F) The Customer reported projected interstate percentage of use as set forth in Section 2.3.3(A) preceding will be used for the apportionment of any monthly rates or nonrecurring charges associated with Feature Groups B or D Switched Access Service until the end of the quarter during which the service was activated. Thereafter, a projected interstate percentage for such apportionment will be developed quarterly by the Company based on the data used to develop the projected interstate percentage of use as set forth in Section 2.3.3(A) preceding. Where call detail is insufficient to make such a determination, the Customer will be requested to project an interstate percentage of use to be used by the Company for such apportionment.
- G) The Customer shall keep sufficient detail from which the percentage of interstate use can be ascertained and upon request of the Company make the records available for inspection. 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 request.

REGULATIONS

2.4 Customer Equipment and Channels

2.4.1 Interconnection of Facilities

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.

2.4.2 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.

REGULATIONS

2.4 Customer Equipment and Channels (cont'd)

2.4.2 Inspections (cont'd)

- B) If the protective requirements in connections 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 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 24 hours in advance provide Customer with a statement of technical parameters that the Customer's equipment must meet.

REGULATIONS

2.5 Customer Deposits and Advance Payments

2.5.1 Advance Payments

To safeguard its interests, 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 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 charges 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.

2.5.2 Deposits

- A) To safeguard its interests, the Company may require the 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.

REGULATIONS

2.5 Customer Deposits and Advance Payments (cont'd.)

2.5.2 Deposits (cont'd.)

- 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. If the amount of the deposit is insufficient to cover the balance due to the Customer's account, the Company retains the right to collect any amounts owing after the deposit has been applied plus any costs related to the collection of any remaining balance.
- D) Deposits held will accrue interest at a rate determined by the Company without deductions for any taxes on such deposits. Interest will not accrue on any deposit after the date on which reasonable effort has been made to return it to Customer.

REGULATIONS

2.6 Payment Arrangements

2.6.1 Payment for Service

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

A) Taxes, Surcharges and Fees

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

As a telecommunications company, the Company must make various payments to local, state, and federal departments and agencies, including, but not limited to, administration fees, inspection and supervision fees, and general public utility commission assessments. The Regulatory Assessment Surcharge ("RAS") is designed to help recover the cost of these payments. The Company assesses RAS on end-user customers based on the individual customer's respective interstate and international services invoiced multiplied by the applicable percentage as reflected at <https://www.windstream.com/About-Us/Tariffs/>

(T)

2.6.2 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 Company.

- A) Non-recurring charges are due and payable within 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 30 days after the date of the invoice. When billing is based upon customer usage, usage charges will be billed monthly for the preceding billing period.

Transmittal No. 6

Issued: July 13, 2017

Effective: July 28, 2017

By: Mr. Leonard Beurer, Vice President Regulatory and Carrier Relations
D&E Systems, Inc., 124 East Main Street
Ephrata, Pennsylvania 17522

D&E Systems, Inc.
d/b/a D&E Communications

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REGULATIONS

2.6 Payment Arrangements (cont'd.)

2.6.2 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 rata basis. For this purpose, every month is considered to have 30 days.
- D) Billing of the Customer by the Company will begin on the Service Commencement Date, which is 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) If any portion of the payment is received by the Company after the date due, or if any portion of the payment is received by the Company in funds which are not immediately available upon presentment, a late payment penalty shall be due to the Company. The late payment penalty shall be the portion of the payment not received by the date due, multiplied by a late factor. The late factor shall be the lesser of 0.000657 per day, compounded daily for the number of days from the payment date to and including the date that the IC actually makes the payment to the Telephone Company or the highest interest rate which may be applied under state law for commercial transactions.
- F) The Customer will be assessed a charge of twenty-five dollars (\$25.00) for each check submitted by the Customer to the Company which a financial institution refuses to honor.

REGULATIONS

2.6 Payment Arrangements (cont'd.)

2.6.3 Billing Disputes

A) General

All bills are presumed accurate, and shall be binding on the Customer unless notice of the disputed charge(s) is received by the Company within 90 days (commencing 5 days after such bills have been mailed or otherwise rendered per the Company's normal course of business). For the purposes of this section, "notice" is defined as written notice to the Company, containing sufficient documentation to investigate the dispute, including the account number under which the bill has been rendered, the date of the bill, and the specific items on the bill being disputed.

B) Late Payment Charge

- 1) The undisputed portions of the bill must be paid by the payment due date to avoid assessment of a late payment charge on the undisputed amount under Section 2.6.2(E), preceding.
- 2) In the event that a billing dispute is resolved by the Company in favor of the Customer, any disputed amount withheld pending resolution of the billing dispute shall not be subject to the late payment charge.
- 3) In the event that a billing dispute is resolved in favor of the Company, the Customer shall pay the late payment charge.

REGULATIONS

2.6 Payment Arrangements (cont'd.)

2.6.3 Billing Disputes (cont'd.)

C) Adjustments or Refunds to the Customer

- 1) In the event that the Company resolves the billing dispute in favor of a Customer who has withheld payment of the disputed amount pending resolution of the disputed bill, the Company will credit the Customer's account for the disputed amount in the billing period following the resolution of the dispute.
- 2) In the event that the Company resolves the billing dispute in favor of a Customer who has paid the total amount of the disputed bill, the Company will credit the Customer's account for any overpayment by the Customer in the billing period following the resolution of the dispute.
- 3) In the event that the Company resolves the billing dispute in favor of a Customer who has paid the total amount of the disputed bill but canceled the service, the Company will issue a refund of any overpayment by the Customer.

REGULATIONS

2.6 Payment Arrangements (cont'd.)

2.6.3 Billing Disputes (cont'd.)

C) Adjustments or Refunds to the Customer (cont'd)

- 4) All adjustments or refunds provided by the Company to the Customer at the Customer's request, or provided by the Company to the Customer by way of compromise of a billing dispute, and which are accepted by the Customer, are final and constitute full satisfaction, settlement, and/or compromise of all of the Customer's claims for the billing period for which the adjustment or refund was issued.

D) Unresolved Billing Disputes

In the case of a billing dispute between the Customer and the Company for service furnished to the Customer which cannot be settled to the mutual satisfaction of the Customer and the Company, the Customer has the right to take the following course of action:

- 1) First, the Customer may request and the Company will provide an in-depth review of the disputed amount.
- 2) Second, if after investigation and review by the Company, a disagreement remains as to the disputed amount, the Customer may file an appropriate complaint with the Federal Communications Commission.

REGULATIONS

2.6 Payment Arrangements (cont'd.)

2.6.4 Discontinuance of Service for Cause

- A) Upon nonpayment of any amounts owing to the Company, the Company may, by giving 5 days prior written notice to the Customer, discontinue or suspend service without incurring any liability.
- B) Upon violation of any of the other material terms or conditions for furnishing service the Company may, by giving 24 hours prior notice in writing to the Customer, discontinue or suspend service without incurring any liability if such violation continues during that period.
- C) Upon condemnation of any material portion of the facilities used by the Company to provide service to a Customer or if a casualty renders all or any material portion of such facilities inoperable beyond feasible repair, the Company, by notice to the Customer, may discontinue or suspend service without incurring any liability.
- D) Upon the Customer's insolvency, assignment for the benefit of creditors, filing for bankruptcy or reorganization, or failing to discharge an involuntary petition within the time permitted by law, the Company may immediately discontinue or suspend service without incurring any liability.
- E) Upon any governmental prohibition or required alteration of the services to be provided or any violation of an applicable law or regulation, the Company may immediately discontinue service without incurring any liability.

REGULATIONS

2.6 Payment Arrangements (cont'd.)

2.6.4 Discontinuance of Service for Cause (cont'd)

- F) In the event of fraudulent use of the Company's network, the Company may without notice suspend or discontinue service. The Customer will be liable for all related costs. The Customer will also be responsible for payment of any reconnection charges.

REGULATIONS

2.6 Payment Arrangements (cont'd.)

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

A Customer may order access service to an access tandem. When ordered to the access tandem, and the access tandem and the end office are not in the same Telephone Company operating territory, meet point billing will apply. All recurring and nonrecurring charges for services provided by each Exchange Telephone Company are billed under each company's applicable rates as set forth in Section 2.6.5 (A) 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 Telephone Company is involved in the provision of Access Service as follows.

- A) For Feature Group B and/or D Switched Access Service, when the first point of switching is not in the same Exchange Telephone Company's territory as the Customer's premise, the Customer must supply a copy of the order to the Exchange Telephone Company in whose territory the Customer's premise is located and any other Exchange Telephone Company(s) involved in providing the service.

Each Exchange Telephone Company will provide the portion of Access Transport to an interconnection point (IP) with another Exchange Telephone Company, and will bill the charges in accordance with its Access Service tariff. The rate for the transport element will be determined as set forth in (B) following. All other appropriate charges in each Exchange Telephone Company tariff are applicable.

REGULATIONS

2.6 Payment Arrangements (cont'd.)

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

B) The Common Transport rates consists of a Common Transport Facility rate and a Common Transport Termination rate. The charge for the Common Transport rate element for services provided as set forth in Section 2.6.5 (A) preceding is determined as follows:

- 1) Determine the appropriate Access Transport mileage by computing the airline mileage between the two ends of the Transport service, as defined in 3.1.2(B) following. Determine the airline mileage for the Transport charge using the V&H method as set forth in Section 2.10.2 following.
- 2) For Feature Groups B or D Switched Access Service, the Common Transport charge is determined by using the steps set forth in (a) and (b) following for the total Common Transport charges.

(a) Common Transport Termination:

Multiply:

The number of access minutes
by
the Common Transport Termination rate. The resulting amount
is the total Common Transport Termination charge.

REGULATIONS

2.6 Payment Arrangements (cont'd.)

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

B) (cont'd.)

2) (cont'd.)

(b) Multiply:

The number of access minutes
by
the Common Transport Facility rate
by
the total access miles as determined in 2.6.5(B) preceding
by
the Company's billing percentage factor. The resulting amount
is the total Common Transport Facility charge.

(c) Total Common Transport charge:

The sum of the result of (a) preceding and the result of (b)
preceding.

REGULATIONS

2.6 Payment Arrangements (cont'd.)

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

- C) 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. 4, except as noted in 2.6.5 (D), below.
- D) Until the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 is revised to include the following meet points, the applicable billing percentage factors for Feature Group B or D Switched Access Service traffic between certain Company end offices and other carrier offices are as set forth in D&E Communications F.C.C. Access Tariff.
- E) Should any changes be made to the meet point billing arrangements as set forth in Section 2.6.5 (A) preceding, the Company will give affected customers 30 days' notice.

REGULATIONS

2.6 Payment Arrangements (cont'd.)

2.6.6 Changes in Service Requested

If the Customer makes or requests material changes in circuit engineering, equipment specifications, service parameters, premises locations, or otherwise materially modifies any provision of the application for service, the Customer's installation fees shall be adjusted according to the terms and conditions set forth in 3.1.1.C following, Access Order Modifications.

2.6.7 Customer Overpayment

The Company will pay interest on a Customer overpayment. Customer overpayment shall mean a payment to the Company in excess of the correct charges for service when caused by erroneous billing by the Company. The rate of interest shall be the unadjusted interest rate paid on Customer deposits or the late payment penalty rate, whichever is greater. Interest shall be paid from the date when the Customer overpayment was made, adjusted for any changes in the deposit interest rate or late payment penalty rate, and compounded monthly, until the date when the overpayment is refunded. No interest shall be paid on Customer overpayments that are refunded within thirty (30) days after such overpayment is received by the Company.

2.6.8 Notice to Company for Cancellation of Service

Customers desiring to terminate service shall provide the Company thirty (30) days written notice of desire to terminate service.

REGULATIONS

2.7 Allowances for Interruptions in Service

2.7.1 General

- A) A credit allowance will be given when service is interrupted, except as specified in Section 2.7.2 following. A service is interrupted when it becomes inoperative to the Customer, e.g., the Customer is unable to transmit or receive, because of a failure of a component furnished by the Company under this Tariff.
- B) An interruption period begins when the Customer reports a service, facility or circuit to be inoperative and, if necessary, releases it for testing and repair. An interruption period ends when the service, facility or circuit is operative.
- C) If the Customer reports a service, facility or circuit to be interrupted but declines to release it for testing and repair, the service, facility or circuit is considered to be impaired but not interrupted. No credit allowances will be made for a service, facility or circuit considered by the Company to be impaired.

REGULATIONS

2.7 Allowances for Interruptions in Services (cont'd.)

2.7.2 Limitations on Allowances

No credit allowance will be made for any interruption in service:

- A) Due to the negligence of or noncompliance with the provisions of this Tariff by any person or entity other than the Company, including but not limited to the Customer or other common carriers connected to the service of the Company;
- B) Due to the failure of power, equipment, systems, connections or services not provided by the Company;
- C) Due to circumstances or causes beyond the control of the Company;
- D) During any period in which the Company is not given full and free access to its facilities and equipment for the purposes of investigating and correcting interruptions;
- E) During any period in which the Customer continues to use the service on an impaired basis;
- F) 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;
- G) That occurs or continues due to the Customer's failure to authorize replacement of any element of special construction; and
- H) That was not reported to the Company within thirty (30) days of the date that service was affected.

REGULATIONS

2.7 Allowances for Interruptions in Service (cont'd.)

2.7.3 Use of Another Means of Communications

If the Customer elects to use another means of communication during the period of interruption, the Customer must pay the charges for the alternative service used.

2.7.4 Application of Credits for Interruptions in Service

- A) Credits for interruptions in service that is provided and billed on a flat rate basis for a minimum period of at least one month, beginning on the date that billing becomes effective, shall in no event exceed an amount equivalent to the proportionate charge to the Customer for the period of service during which the event that gave rise to the claim for a credit occurred. A credit allowance is applied on a pro rate basis against the rates specified hereunder and is dependent upon the length of the interruption. Only those facilities on the interrupted portion of the circuit will receive a credit.
- B) For calculating credit allowances, every month is considered to have thirty (30) days.
- C) A credit allowance will be given for interruptions in service of 15 minutes or more. Two or more interruptions of 15 minutes or more during any one 24-hour period shall be considered as one interruption.

REGULATIONS

2.7 Allowances for Interruptions in Service (cont'd.)

2.7.4 Application of Credits for Interruptions in Service (cont'd.)

D) Interruptions of 24 Hours or Less

| <u>Length of Interruption</u> | <u>Interruption Period To Be Credited</u> |
|--|---|
| Less than 15 minutes | None |
| 15 minutes up to but not including 3 hours | 1/10 Day |
| 3 hours up to but not including 6 hours | 1/5 Day |
| 6 hours up to but not including 9 hours | 2/5 Day |
| 9 hours up to but not including 12 hours | 3/5 Day |
| 12 hours up to but not including 15 hours | 4/5 Day |
| 15 hours up to but not including 24 hours | One Day |

E) Continuous Interruption Over 24 Hours and Less Than 72 Hours

Interruptions over 24 hours and less than 72 hours will be credited 1/5 day for each three-hour period or fraction thereof that occurs following the expiration of the initial 24-hour period. No more than one full day's credit will be allowed for any period of 24 hours.

REGULATIONS

2.7 Allowances for Interruptions in Service (cont'd.)

2.7.4 Application of Credits for Interruptions in Service (cont'd.)

F) Interruptions Over 72 Hours

Interruptions over 72 hours will be credited 2 days for each full 24-hour period that occurs following the expiration of the initial 72-hour period. No more than 30 days credit will be allowed for any one month period.

2.7.5 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.

2.8 Cancellation of Service/Termination Liability

If a Customer cancels a Service Order or terminates services before the completion of the term for any reason whatsoever other than a service interruption (as defined in Section 2.7.1), the Customer agrees to pay to the Company termination liability charges, which are defined below. These charges shall become due and owing as of the effective date of the cancellation or termination and be payable within the period set forth in Section 2.6.2.

When an application for a specially designed and engineered service is canceled or changed, in whole or in part, by the applicant prior to the establishment of service, the applicant is required to pay the Telephone Company, upon request, the aggregate of the costs and expenses incurred by the Telephone Company, for any work performed upon the application prior to the cancellation or change of the service.

REGULATIONS

2.8 Cancellation of Service/Termination Liability (cont'd.)

2.8.1 Termination Liability

The payment to the Company required of the applicant shall not exceed the aggregate of the non-recurring service connection and minimum contract period charges, including, but not limited to, construction and termination charges, which would have applied if the service and facilities had been established prior to such cancellation, change, or change in location.

Applicable cancellation or change charges are determined on an individual case basis taking into consideration the following:

- The proportion of the provisioning functions completed by the Company at the time the request for cancellation or change is received.
- The corresponding proportion of the non-recurring installation charges or connection charges as specified in the appropriate Section of the Tariff(s) of the Company.

2.9 Privacy Rules

Automatic Number Identification (ANI) derived information may be used only for billing, routing, screening, ensuring network performance, completing calls or performing services directly related to the telephone caller's original call or transaction. Therefore, should the business that receives ANI information have an established customer relationship with the caller, the business may offer products or services to the caller that are directly related to the products or services previously purchased by the caller. The business that receives ANI information may not establish marketing lists or conduct ongoing market calls for unrelated products or services or sell the information derived from ANI (caller's name, address, telephone billing number, purchasing habits, etc.) to third parties unless it gets the prior written consent of the caller.

REGULATIONS

2.10 Application of Rates

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

2.10.1 Charges Based on Duration of Use

Customer traffic to end offices will be measured (i.e., recorded or assumed) by the Company at end office switches. Originating and terminating calls will be measured (i.e., recorded or assumed) by the Company to determine the basis for computing chargeable access minutes. In the event the Customer message detail is not available because the Company lost or damaged tapes or experienced recording system outages, the Company will estimate the volume of lost Customer access minutes of use based on previously known values.

For originating calls over Feature Group B or D, usage measurement begins when the originating Feature Group B or D switch receives the first wink supervisory signal forwarded from the Customer's point of termination.

The measurement of originating call usage ends when the originating Feature Group B or D 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 switch.

For terminating calls over Feature Group B or D, the measurement of access minutes begins when the terminating Feature Group B or D switch receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

The measurement of terminating call usage over Feature Group B or D ends when the terminating Feature Group B or D 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 switch.

REGULATIONS

2.10 Application of Rates (cont'd.)

2.10.1 Charges Based on Duration of Use (cont'd.)

Access minutes or fractions thereof are accumulated over the billing period for each end office and are then rounded up to the nearest access minute for each end office.

2.10.2 Rates Based Upon Distance

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

- A) Distance between two points is measured as airline distance between the wire centers of the originating and terminating telephone lines. The wire center is a set of geographic coordinates, as referenced in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC No. 4, associated with each NPA-NXX combination (where NPA is the area code and NXX is the first three digits of a seven-digit telephone number).

REGULATIONS

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 for each wire center 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.

- 7) Formula =
$$\sqrt{\frac{(V1 - V2)^2 + (H1 - H2)^2}{10}}$$

REGULATIONS

2.10 Application of Rates (cont'd.)

2.10.3 Mileage

The mileage to be used to determine the Common Transport Facility monthly charge is calculated on the airline distance between the remote access switch where the call is carried by Common Transport originates or terminates and the host end office switch. The V&H coordinates method is used to determine mileage. This method is set forth in Section 2.10.2. (T) (T)

The Common Transport Facility mileage rate is shown in Section 5.1.3. To determine the charge to be billed, first compute the mileage. Should the calculation result in a fraction of a mile, always round up to the next whole mile when determining the mileage. The amount to be billed shall be the Common Transport Facility rate multiplied by the number of access minutes multiplied by the Common transport miles multiplied by the Company's billing percentage factor.

Transmittal No. 1

Issued: August 2, 2007

Effective: August 6, 2007

By: Mr. Leonard Beurer, Vice President Regulatory and Carrier Relations
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D&E Systems, Inc.
d/b/a D&E Communications

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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a two-point communications path between a customer's premise and an end user's premise. It provides for the use of common terminating, switching and trunking facilities. Switched Access Service provides for the ability to originate calls from an end user's premise to a customer's premise, and to terminate calls from a customer's premise to an end user's premise.

Switched Access Service is provided in two service categories of standard and optional features called Feature Groups. The Company provides Feature Group B and D originating and terminating switches access. The service categories are differentiated by their technical characteristics and the manner in which an end user accesses them when originating calls.

FGB Access, which is available to all customers, provides trunk side access to Company end office switches with an associated uniform 950-XXXX access code for the Customer's use in originating and terminating communications.

FGD Access, which is available to all Customers, provides trunk side access to Company end office switches with an associated uniform 101XXXX access code for the Customer's use in originating and terminating communications.

SERVICE AND RATE DESCRIPTION

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order

A) Ordering Access Service Types

An Access Service Order is used by the Company to provide a Customer Access Service. When placing an order for Access Service, the Customer shall provide, at a minimum, the following information:

- 1) For Feature Group B Switched Access Service, the Customer shall specify the number of trunks and the end office when direct routing to the end office is desired and the Common Transport and Local Switching options desired. When ordering FGB trunks to an end office, the Customer must also provide the Company an estimate of the amount of traffic to be generated to and/or from each end office subtending an access tandem operated by another Exchange Telephone Company to assist the Company in the effort to project further facility requirements.

In addition, the Customer shall also specify for terminating only access, whether the trunks are to be arranged in trunk group arrangements or provided as single trunks.

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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

A) Ordering Access Service Types (cont'd.)

- 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 premise to the end office by Feature Group and by traffic type. This information is used to determine the number of transmission paths. The Customer shall also specify the Common 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 and the Common Transport and Local Switching options desired. When ordering by trunk quantities rather than BHMC quantities to an end office, 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 an access tandem operated from another Exchange Telephone Company to assist the Company in its own efforts to project further facility requirements.

In addition, for Feature Group D with the Out of Band Signaling/SS7 signaling option, the Customer shall specify the switching point codes and trunk circuit identification codes for trunks with the Out of Band Signaling/SS7 signaling option, and the STP point codes, signaling link codes and link type for each Common Channel Signaling Access (CCSA) connection ordered.

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

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

A) Ordering Access Service Types (cont'd.)

- 3) For Toll Free 800 Series 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.

B) Access Order Service Date Intervals

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

- Standard Interval
- Negotiated Interval
- Advance Order Interval

1) Standard Interval

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

| <u>Feature Groups B and D</u> | <u>Standard Interval</u> |
|-------------------------------|--------------------------|
| 1 to 4 Trunks | 28 Days |
| 5 Trunks or Greater | 30 Days |

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

B) Access Order Service Date Intervals (cont'd)

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.

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 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.

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

B) Access Order Service Date Intervals (cont'd.)

2) Negotiated Interval (cont'd.)

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 a Toll Free 800 Series Access Service six digit Customer identification NXX is provided with a Negotiated Interval. The addition of a Toll Free 800 Series Access Service ten digit Customer identification record to the Toll Free 800 Series Access Service data base or the deletion of a Toll Free 800 Series Access Service ten digit Customer identification record from the 800 Access Service data base is provided with a Negotiated Interval. The initial establishment of service where Customer is:

| | <u>Maximum Interval</u> |
|---|-------------------------|
| - Not yet provided with any FGB or FGD service in the LATA | 6 months |
| - Provided FGB or FGD service in the LATA | 90 Days |

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

B) Access Order Service Date Intervals (cont'd.)

3) Advance Order Interval

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

- A minimum of 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: The minimum monthly charge for the minimum period plus the applicable Nonrecurring Charges for the services ordered.

This Advance Payment is due 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.

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

B) Access Order Service Date Intervals (cont'd.)

3) Advance Order Interval (cont'd.)

(a) Advance Payment (cont'd.)

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 (b) following, only the portion of the Advance Payment for services actually installed will be credited.

(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.

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

C) 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 CCSA signaling connections will be ordered as a new Access Order (for the increased amount only).

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 30 calendar days. When, for any reason, the Customer indicates that service cannot be accepted for a period not to exceed 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 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 found in Section 5.1.1.

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

C) Access Order Modifications (cont'd.)

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 3.1.1.3 following will apply. Partial cancellation charges do not apply to Advance Order Interval Access Orders.

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 premise, end user premise, end office switch or 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 found in Section 5.1.1. If a change of service date is required, the Service Date Change Charge will also apply.

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

C) Access Order Modifications (cont'd.)

4) Expedited Order Charge

When placing an Access Order for service(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 found in Section 5.1.1 will apply.

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

D) Access Order Charge

The Access Order Charge is applied to all customer requests for new Special Access and Switched Access Service. In addition, the Access Order Charge is applicable to customer requests for additions, changes or rearrangements to existing Special Access and Switched Access Service with the following exceptions:

The Access Order Charge does not apply:

- When a Service Date Change Charge is applicable.
- When a Design Change Charge is applicable.
- When a change to a pending order does not result in the cancellation of the pending order and the issuance of a new order.
- When a Telephone Company initiated network reconfiguration requires a customer's existing access service to be reconfigured.
- When a Billing Name and Address Order Charge is applicable.

The Access Order Charge will be applicable on a per order basis to each order received by the Telephone Company or copy of an order received by the Telephone Company and is in addition to other applicable charges as set forth in this and other sections of this tariff.

The Access Order Charge will be applied on a per order basis for any change, rearrangement or addition of CICs to an existing Feature Group D trunk group.

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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

E) Cancellation of an Access Order

- 1) A Customer may cancel an Access Order for the installation of service at any time prior to notification by the Company that services are 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 10 days. If a Customer or an end user is unable to accept Access Service within 30 calendar days after the original service date, the Customer has the choice of the following options:

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

If no cancellation request is received within the specified 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 31st day beyond the original service date of the Access Order.

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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

E) Cancellation of an Access Order (cont'd.)

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 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.

F) Minimum Period

- 1) The minimum period for which Switched Access Service is provided and for which charges are applicable, is one month.

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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

F) Minimum Period (cont'd.)

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) A change in Out of Band Signaling connection.
- (f) Change to an existing Feature Group D Service to include the provision of 64 kbps Clear Channel Capability.

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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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

G) Nonrecurring Charges

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

1) Installation of Service

Nonrecurring charges apply to each Switched Access Service installed. For Switched Services ordered on a per trunk basis, the charge is applied per trunk or out of band signaling connection. For Switched Services ordered on a busy hour minutes of capacity basis, the charge is also applied on a per trunk basis but the charge applies only when the capacity ordered requires the installation of an additional trunk(s). In addition, nonrecurring charges apply when an out of band signaling connection is installed for use with FGD.

2) Service Rearrangements

All changes to existing services other than changes involving administrative activities only will be treated as a discontinuance of the existing service and an installation of a new service. The nonrecurring charge described in (1) preceding will apply for this work activity. Moves that change the physical location of the point of termination are described below.

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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.1 Access Service Order (cont'd.)

G) Nonrecurring Charges (cont'd.)

2) Service Rearrangements (cont'd.)

(a) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring charge for the capacity affected. There will be no change in the minimum period requirements.

(b) Moves to a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new service. The Customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.2 Rate Categories

A) Carrier Common Line

The Carrier Common Line rate category provides for the use of Company common lines by Customers for access to end users to furnish Customer interstate communications. Carrier Common Line is provided where the Customer obtains Company provided Switched Access Service.

1) Limitations

- (a) A telephone number is not provided with Carrier Common Line.
- (b) Detail billing is not provided for Carrier Common Line.
- (c) Directory listings are not included in the rates and charges for Carrier Common Line.
- (d) Intercept arrangements are not included in the rates and charges for Carrier Common Line.
- (e) All trunk side connections provided in the same combined access group will be limited to the same features and operating characteristics.

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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.2 Rate Categories (cont'd.)

A) Carrier Common Line (cont'd.)

2) Undertaking of the Telephone Company

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 at rates and charges as set forth in Section 5.1.2 following.

3) Obligations of the Customer

- (a) The Customer facilities at the premise of the ordering customer shall provide the necessary on-hook and off-hook supervision.
- (b) All Switched Access Service provided to the Customer will be subject to Carrier Common Line charges, excluding the Common Channel Signaling Access exemption.

4) Out of Band Signaling Access Exemption

The Common Channel Signaling Access Signal Transfer Point (STP) Port Termination, as set forth in Section 5 following, is not subject to a Carrier Common Line charge.

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.2 Rate Categories (cont'd.)

A) Carrier Common Line (cont'd.)

5) Rate Regulations

- (a) The Carrier Common Line charges will be billed per access minute to each Switched Access Service Customer.
- (b) When the Customer reports interstate and intrastate use of Switched Access Service, the Carrier Common Line charges will be billed only to interstate Switched Access Service access minutes based on the data reported by the Customer set forth in Section 2.3.3 preceding.

B) Local Transport

The Local Transport rate category provides for transmission facilities between the Customer's premise and the Company's end office switch(es) where the Customer's traffic is switched to originate or terminate its communications.

The customer must specify when ordering whether the service will utilize Direct Trunked Transport or Common Transport.

Charges for Common Transport service are computed in accordance with Section 2.6.5 preceding (Ordering, Rating, and Billing of Access Services Where More Than One Exchange Telephone Company is Involved). For purposes of determining Common Transport mileage, distance will be measured from the wire center that normally serves the Customer's premise to the end office switch(es).

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.2 Rate Categories (cont'd.)

B) Local Transport (cont'd.)

The following paragraphs describe the Local Transport rate elements.

1) Interface Groups

The Interface Group is provided for terminating the Local Transport at the Customer's premise. The Interface Group provides a specified premise Interface. Where transmission facilities permit, the individual transmission path between the Customer's premise and the first point of switching may, at the option of the Customer, be provided with optional features.

Interface Group 1 provides DS1 level digital transmission at the point of termination at the Customer's premise. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice frequency transmission path.

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.2 Rate Categories (cont'd.)

B) Local Transport (cont'd.)

2) Out of Band Signaling

- a) This ordering option allows the Customer to exchange signaling for Feature Group D call set-up over a communications path which is separate from the message path. This option is provided with SS7 protocol and is only available with Feature Group D. This option requires the establishment of a signaling connection path between the Customer's SPOI and the Telephone Company's STP.
- b) Out of band signaling is provided in both the originating and terminating direction on FGD services. Each signaling connection is provisioned for two-way transmission of out of band signaling information. Out of band signaling is subject to the rates and charges as specified in 5.1.3(A) following.

3) Common Transport

- a) Common Transport Facility provides for that portion of the voice frequency transmission path between the remote access switch and the host end office switch. (T)
- b) Common Transport Termination provides for the circuit equipment that is necessary for the termination of each end of the Common Transport Facility. (T)

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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.2 Rate Categories (cont'd.)

B) Local Transport (cont'd.)

3) Common Transport (cont'd)

c) Direct Trunk Transport Facility

Direct Trunk Transport Facility provides for that portion of the voice frequency transmission path between the end office switch and the Customer's premise dedicated to one customer.

d) Direct Trunk Transport Termination

Direct Trunk Transport Termination provides for the circuit equipment that is necessary for the termination of each end of the Direct Trunk Transport Facility.

e) Transport Interconnection Charge

The Transport Interconnection Charge recovers the costs associated with Local Transport that are not recovered by the other Local Transport Rate Categories. The Transport Interconnection Charge applies to both Common Transport and Direct Trunked Transport minutes of use.

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.2 Rate Categories (cont'd.)

C) End Office

The End Office rate category provides the local end office switching functions necessary to complete the transmission of Switched Access communications to and from the end users served by the Company's end office. The End Office rate category consists of the Local Switching element.

The Local Switching rate element provides for the use of end office switching equipment. The Local Switching rate is set forth in Section 5.1.4.

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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.2 Rate Categories (cont'd.)

D) Toll Free 800 Series Data Base Access Service

Toll Free 800 Series Data Base Access Service is a service offering utilizing originating trunk side Switched Access Service. The service provides for the forwarding of end user dialed Toll Free 800 Series calls to a Company Service Switching Point which will initiate a query to the data base to perform the Customer identification and delivery function. The call is forwarded to the appropriate customer based on the dialed Toll Free 800 Series number.

- 1) Customer Identification Charge - Basic - The Toll Free 800 Series Data Base Access Service Customer Identification Charge - Basic applies for the identification of the appropriate customer and the delivery of the dialed Toll Free 800 Series ten-digit number. The charge is assessed to the Customer on a per query basis. The Customer Identification Charge - Basic as set forth in Section 5.1.5 applies.
- 2) Customer Identification Charge - Vertical - The Toll Free 800 Series Data Base Access Service Customer Identification Charge - Vertical applies for the identification of the appropriate customer and the delivery of the dialed Toll Free 800 Series ten-digit number in addition to vertical features which may include: (1) call validation; (2) POTS translation; (3) alternate POTS translation and (4) multiple carrier routing. The charge is assessed to the Customer on a per query basis. The Customer Identification Charge - Vertical as set forth in Section 5.1.5 applies.

SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.2 Rate Categories (cont'd.)

E) Switched Transport

The Switched Transport rate category provides the transmission facilities between the customer's premises and the end office switch(es) where the customer's traffic is switched to originate or terminate its communications. For purposes of determining Switched Transport mileage, distance will be measured from the wire center that normally serves the customer to the end office switch(es).

1) Tandem-Switched Transport Rate Category

Tandem-Switched Transport provides the transmission facilities from the end office to the tandem, utilizing tandem switching functions. Tandem-Switched Transport consists of circuits used in common by multiple customers from the access tandem to an end office. For Tandem-Switched Transport the Telephone Company shall determine the type of facilities from the end office of the customer's premises to the access tandem, unless the customer has ordered Direct-Trunked Transport to the tandem. The Telephone Company will base its determination on a busy-hour minutes-of-capacity or on a per trunk basis provided by the customer when ordering service.

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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.2 Rate Categories (cont'd.)

E) Switched Transport (cont'd)

1) Tandem-Switched Transport Rate Category (cont'd)

The Tandem-Switched Transport rate category is comprised of a Tandem Transport fixed MOU rate, Tandem Transport per mile, per MOU rate, and a Tandem Switching MOU rate. The fixed rate provides the circuit equipment at the end of the interoffice transmission links. The per-mile rate provides the transmission facilities, including intermediate transmission circuit equipment between the end points of the interoffice circuit. For purposes of determining the per-mile rate, mileage shall be measured as airline mileage between the end office of the customer's premises and the tandem using the V&H coordinates method. The Tandem Switching rate provides for tandem switching facilities. The Tandem Switched Transport rate is the sum of the fixed rate, the per-mile rate, and the Tandem Switching MOU rate.

(T)
|

In addition, the customer has an option to purchase direct trunks to the access tandem. If the customer chooses this option, the per-mile, per-MOU rate shall be measured as airline mileage between the tandem office and the end office (common traffic) using the V&H coordinates method for all of the customer's usage at that specific tandem. The fixed per-MOU rate and the tandem switching rates will also apply.

The Tandem-Switched Transport fixed rate and the Tandem Transmission per-mile, per-MOU rate also apply to FGA/Lineside Switched Access Service with a Voice Grade facility. The miles are measured from the DTO to the End Office.

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SERVICE AND RATE DESCRIPTIONS

3.1 Switched Access Service (cont'd.)

3.1.2 Rate Categories (cont'd.)

E) Switched Transport (cont'd.)

2) Switched Transport Rate Elements

(a) Direct-Trunked Transport

The Direct-Trunked Transport monthly rate provides for the transmission facilities between the SWC of the customer's facilities to the end office or access tandem based on the capacity of the facility requested, i.e., Voice Grade, DS1, or DS3. When Lineside Switched Access service is ordered, the Voice Grade Direct-Trunked transport rate is assessed for each Lineside service requested unless the customer requests a Direct-Trunked Transport facility of higher capacity. There are two rates that apply, a fixed rate and a rate per mile. The Direct-Trunked Transport rate is in addition to the Entrance Facility rate. Mileage measurement is described in 3.2.1. (T)

(b) Tandem Transport Charge

The Tandem Transport Charge is assessed on a per minute of use basis. There are two rates that apply, a fixed rate and a rate per mile, per minute. The Tandem Transport rate is in addition to the Entrance Facility rate. Mileage measurement is described in 3.2.1.

(c) Tandem Switching

The Tandem Switching rate is assessed on a per-minute-of-use basis and is applicable to all Switched Access minutes of use utilizing an access tandem via a Tandem-Switched Trunk. The Tandem Switching rate is in addition to the Tandem Transmission rate and the rates associated with the Entrance Facility.

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service

3.2.1 General

Special Access Service provides a transmission path to connect customer designated premises*, either directly or through a Telephone Company Hub where bridging or multiplexing functions are performed. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

A) Channel Types

There are three types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

- Transmission specifications,
- Bandwidth,
- Speed (i.e., bit rate).
- Spectrum

Customers can order a basic channel and select, from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

* Telephone Company Centrex CO-like switches are considered to be customer premises for purposes of this tariff

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.1 General (cont'd.)

A) Channel Types (cont'd)

Following is a brief description of each type of channel:

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300-3000Hz.

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 19.2, 56.0 or 64 kbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544 or 44.736 Mbps.

Detailed descriptions of each of the channel types are provided in 3.2.2 following.

The Customer also has the option of ordering digital high capacity facilities (i.e., 1.544 Mbps and 44.736 Mbps) to a Company Hub for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the Hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 3.2.2 following. Additionally, the Customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are also set forth in 3.2.2 following.

For example, a Customer may order a 1.544 Mbps facility from a Customer designated premises to a Company Hub. The 1.544 Mbps channels may be further multiplexed at the same or a different Hub to Voice Grade channels or may be extended to other customer designated premises. Optional features may be added to either the 1.544 Mbps of the Voice Grade Channels.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.1 General (cont'd.)

B) Rate Categories

There are three basic rate elements which apply to Special Access Service:

- Channel Terminations (described in 3.2.1(B)(1) following)
- Channel Mileage (described in 3.2.1(B)(2) following)
- Optional Features and Functions (described in 3.2.1(B)(3) following)

1) Channel Termination

The Channel Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in (3) following. One Channel Termination charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the Customer designated premises and the serving wire center are collocated in a Telephone Company building.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.1 General (cont'd.)

B) Rate Categories (cont'd.)

2) Channel Mileage

The Channel Mileage rate category provides for the transmission facilities between the serving wire center associated with two Customer designated premises, between a serving wire center associated with a Customer designated premises and a Telephone Company Hub or between two Telephone Company Hubs. There are two rates that apply, i.e., a flat rate per termination and a rate per mile.

3) Optional Features and Functions

The Optional Features and Functions rate category provides for optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.1 General (cont'd.)

B) Rate Categories (cont'd.)

3) Optional Features and Functions (cont'd.)

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning

A Hub is a Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed are to connect three or more Customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

Descriptions for each of the available Optional Features and Functions are set forth in 3.2.2 following.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.1 General (cont'd.)

C) Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

1) Two-Point Service

A two-point service connects two Customer designated premises, either on a directly connected basis or through a HUB where multiplexing functions are performed.

Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.1 General (cont'd.)

C) Service Configurations (cont'd)

2) Multipoint Service

Multipoint service connects three or more Customer designated premises through a telephone Company Hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between Hubs (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the Service Descriptions set forth in 3.2.2 following.

Multipoint service utilizing a customized technical specifications package as set forth in 3.2.2 following will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the Customer will be advised and given the opportunity to change the order.

When ordering, the Customer will specify the desired bridging Hub(s) selected from the National Exchange Carrier Association Tariff F.C.C. No. 4. This Tariff identifies the type(s) of bridging functions which are available and the serving wire centers at which they are available.

Applicable rate Elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between each designated customer premises and the Hub and between Hubs)
- Bridging
- Additional Optional Features (when applicable)

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.1 General (cont'd.)

D) Design Layout Report

At the request of the Customer, the Telephone Company will provide to the Customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the Customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the Customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

E) Acceptance Testing

At no additional charge, the Telephone Company will, at the Customer's request, cooperatively test, at the time of installation, the following parameters:

- 1) For Voice Grade analog services, acceptance tests will include tests for loss 3-tone slope, DC continuity, operational signaling, C-notched noise and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the Customer has ordered the improved loss optional feature.
- 2) For other analog services and for digital services (i.e., Digital Data and High Capacity), acceptance tests will include tests for the parameters applicable to the service as specified in the order for service.

In addition to the above test, Additional Cooperative Acceptance Testing for Voice Grade Service to test other parameters, is available at the Customer's request. All tests will be made available to the Customer upon request.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.1 General (cont'd.)

F) Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions set forth in Section 2 preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.)

3.2.2 Service Descriptions

For the purposes of ordering, there are three categories of Special Access Service. These are:

| | |
|---------------|------|
| Voice Grade | (VG) |
| Digital Data | (DA) |
| High Capacity | (HC) |

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the Customer. Each of the components of the service are described in this section.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the Customer will be advised and given the opportunity to change the order.

When customized channel is ordered the Customer will be notified whether Additional Engineering Charges apply. In such cases, the Customer will be given an estimate of the hours to be billed before any further action is taken on the order.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or is provided between a customer designated premises and a Telephone Company Hub where bridging or multiplexing functions are performed.

Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access. The letter "C" following the two letter code indicates the technical specifications package for a customized service. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the Customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

Channel interfaces at each point of termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical. However, communications can only be provided between points of termination with compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in 3.2.3 following in a combination format.

Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth at the end of the 3.2.2. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications package listed across the top.

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this tariff. All services installed after the effective date of this tariff will conform to the transmission specification standards contained in this tariff or in the following Technical Reference for each category of service:

| | | |
|---------------|-----|-------|
| Voice Grade | PUB | 62501 |
| | PUB | 41004 |
| Digital Data | PUB | 62507 |
| | PUB | 62310 |
| High Capacity | PUB | 62508 |
| | PUB | 62411 |

A) Voice Grade Service

1) Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

A) Voice Grade Service (cont'd.)

2) Technical Specifications Packages

Package VG-

| Parameter | C* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-------------------------------------|----|---|---|---|---|---|---|---|---|---|----|----|----|
| Attenuation Distortion | X | X | X | X | X | X | X | X | X | X | X | X | X |
| C- Message Noise | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Echo Control | X | X | X | X | | X | | X | X | | | X | X |
| Envelope Delay Distortion | X | | | | | | X | X | X | X | X | X | X |
| Frequency Shift | X | | | | | | X | X | X | X | X | X | X |
| Impulse Noise | X | | | | | X | X | X | X | X | X | X | X |
| Intermodulation Distortion | X | | | | | | X | X | X | X | X | X | X |
| Loss Deviation | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Phase Hits, Gain Hits, and Dropouts | X | | | | | | | | | | | | |
| Phase Jitter | X | | | | | | X | X | X | X | X | X | |
| Signal-to-C Message Noise | | | | | X | | | | | | | | |
| Signal-to-C-Notch Noise | X | | | | | X | X | X | X | X | X | X | X |

* The desired parameters are selected by the customer from the list of available parameters.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

A) Voice Grade Service (cont'd.)

2) Technical Specifications Packages (cont'd.)

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference PUB 62501 and associated Addendum. The technical specifications for dropouts, phase hits and gain hits are delineated in Technical Reference PUB 41004, Table 4.

3) Channel Interfaces

The following channel interfaces for Voice grade service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Compatible channel interfaces are set forth in 3.2.3(E) following.

4) Optional Features and Functions

(a) Central Office Bridging Capability

- (1) Voice Bridging (two-wire or four-wire)
- (2) Data Bridging (two-wire or four-wire)
- (3) Telephoto Bridging (two-wire or four-wire)

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

A) Voice Grade Service (cont'd.)

4) Optional Features and Functions (cont'd.)

(b) Central Office Multiplexing

Voice to Telegraph Grade: An arrangement that converts a Voice Grade channel to Telegraph Grade channels using frequency division multiplexing.

(c) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid link or end link. C-Type conditioning and Data Capability may be combined on the same service.

(1) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are:

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

A) Voice Grade Service (cont'd.)

4) Optional Features and Functions (cont'd.)

(c) Conditioning (cont'd.)

(1) C-Type Conditioning (cont'd.)

Attenuation Distortion
(Frequency Response)
Relative to 1004 Hz

| <u>Frequency Range (HZ)</u> | <u>Variation (db)</u> |
|---------------------------------|---------------------------|
| 400-2800 | -1.0 to +2.0 |
| 300-3000 | -1.0 to +3.0 |
| 3000-3200 | -2.0 to +6.0 |

Envelope Delay
Distortion

| <u>Frequency Range (Hz)</u> | <u>Variation (micro-seconds)</u> |
|---------------------------------|--------------------------------------|
| 1000-2600 | 100 |
| 800-2600 | 200 |
| 600-2600 | 300 |
| 500-2800 | 600 |
| 500-300 | 3000 |

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

A) Voice Grade Service (cont'd.)

4) Optional Features and Functions (cont'd.)

(c) Conditioning (cont'd.)

(2) Sealing Current Conditions

Sealing Current conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.

(d) Customer Specified Premises Receive Level

This option allows the Customer to specify the receive level at the Point of Termination. This level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference PUB 62501.

(e) Improved Return Loss

- (1) On effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the Customer's premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference PUB 62501.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

A) Voice Grade Service (cont'd.)

4) Optional Features and Functions (cont'd.)

(e) Improved Return Loss (cont'd.)

- (2) On effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control Specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the Customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference PUB 62501.

(f) Data Capability

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameters for Data Capability are:

- Signal to C-Notched Noise Ratio is equal to or greater than 32dB

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

A) Voice Grade Service (cont'd.)

4) Optional Features and Functions (cont'd.)

(f) Data Capability (cont'd.)

- Intermodulation distortion:

- Signal to second order modulation products (R2) is equal to or greater than 38dB

- Signal to third order modulation products (R3) is equal to or greater than 42dB

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

(g) Telephoto Capability

Telephoto Capability provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Capability is provided for the control of attenuation distortion and envelope delay distortion on telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Capability are:

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

A) Voice Grade Service (cont'd.)

4) Optional Features and Functions (cont'd.)

(g) Telephoto Capability (cont'd.)

Attenuation Distortion
(1004 Hz Reference)

| Frequency Range (Hz) | Variation d(B) |
|-------------------------|-------------------|
| 500-3000 | -0.5 to +1.5 |
| 300-3200 | -1.0 to +2.5 |

Envelope Delay Distortion

| Frequency Range (Hz) | Variation (mcs) |
|-------------------------|--------------------|
| 1000-26000 | 110 |
| 800-2800 | 180 |

(h) Signaling Capability

Signaling Capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

(i) Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service.

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

A) Voice Grade Service (cont'd.)

4) Optional Features and Functions (cont'd.)

The following table show the technical specifications packages with which the optional features and functions are available.

Available with Technical Specifications Package VG-

| | <u>C</u> | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | <u>8</u> | <u>9</u> | <u>10</u> | <u>11</u> | <u>12</u> |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
| C-Type Conditioning | X | | | | | X | X | X | X | X | X | | |
| Central Office - Bridging Capability | X | | X | | | X | X | | | | X | X | X |
| Central Office - Multiplexing | X | | | | | | X | | | | | | |
| Customer Specified Premise Receive Level | X | | X | X | | | | X | X | X | | | |
| Data Capability | X | | | | | | X | X | | | X | | |
| Improved Return Loss: for effective Four-Wire Transmission | X | X | X | X | X | X | X | X | X | X | X | X | X |
| for effective Two- Wire Transmission | X | | X | X | | | | X | | | | | |
| Sealing Current Conditioning | X | | | | | | X | | | | | | |
| Selective Signaling Arrangement | X | | X | | | | | | | | | | |
| Signaling Capability | X | X | X | X | | | | X | X | X | | | |
| Telephoto Capability | X | | | | | | | | | | | X | |

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

B) Digital Data Service

1) Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56 or 64 kbps. The actual bit rate is a function of the channel interface selected by the Customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the Customer in the received bit speed. Digital Data channels are only available via Telephone Company designated hubs and provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

The Customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the Customer premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

2) Technical Specifications Packages

| <u>Parameter</u> | <u>Package DA</u> | | | |
|--------------------|-------------------|----------|----------|----------|
| | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> |
| Error-Free Seconds | X | X | X | X |

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds while the channel is in service, if it measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

B) Digital Data Service (cont'd.)

2) Technical Specifications Packages (cont'd.)

Voltages which are compatible with Digital Data Service are delineated in Technical Reference PUB 62507.

3) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a Digital Data channel:

| <u>C1</u> | <u>Bit Rate</u> | |
|-----------|-----------------|------|
| DU-24 | 2.4 | kbps |
| DU-48 | 4.8 | Kbps |
| DU-96 | 9.6 | kbps |
| DU-19 | 19.2 | kbps |
| DU-56 | 56.0 | kbps |
| DU-64 | 64.0 | kbps |

Compatible channel interfaces are set forth in 3.2.3(E)(2) following.

4) Optional Feature and Functions

The following table shows the technical specifications packages with which the optional features and functions are available.

| | <u>Available with Technical Specifications Package DA -</u> | | | |
|------------------------------------|---|----------|----------|----------|
| | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> |
| Central Office Bridging Capability | X | X | X | X |

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

C) High Capacity Service

1) Basic Channel Description

A High Capacity channel is a channel for the transmission of 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the Customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUC AS No. 1.

2) Technical Specifications Packages

| <u>Parameters</u> | <u>Package HC-</u> | | | | | |
|--------------------|--------------------|----------|-----------|----------|----------|----------|
| | <u>0</u> | <u>1</u> | <u>1C</u> | <u>2</u> | <u>3</u> | <u>4</u> |
| Error-Free Seconds | | X | | | | |

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical Reference PUB 62411.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

C) High Capacity Service (cont'd.)

3) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a High Capacity channel:

| <u>CI</u> | <u>Bit Rate</u> |
|-----------|------------------|
| DS-15 | 1.544 Mbps (DS1) |
| DS-44 | 44.735Mbps (DS3) |

Compatible channel interfaces are set for the 3.2.3(E).

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

C) High Capacity Service (cont'd.)

4) Optional Features and Functions

(a) Central Office Multiplexing

(1) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(2) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the Hub can also be used for a Digital Data Service.

(3) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 24 64.0 kbps channels utilizing digital time division multiplexing.

(4) DS0 to Subrate

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps or five 9.6 kbps channels using digital time division multiplexing.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

C) High Capacity Service (cont'd.)

4) Optional Features and Functions (cont'd.)

The following table shows the technical specifications packages with which the optional features and functions are available.

| | 0 | 1 | <u>Available with Technical Specification Package HC</u> | | | |
|------------------------------|---|---|--|---|---|---|
| | | | 1C | 2 | 3 | 4 |
| Central Office Multiplexing: | | | | | | |
| DS3 to DS1 | | | | | X | |
| DS1 to Voice | | X | | | | |
| DS1 to DS0 | | X | | | | |
| DS0 to Subrate* | X | | | | | |

*Available only on a channel of a 1.544 Mbps facility to a Telephone Company Hub

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

D) Synchronous Optical Channel Service

1) Basic Channel Description

A Synchronous Optical Channel Service channel provides dedicated transport utilizing Synchronous Optical network (SONET) transmission standards. Synchronous Optical Channel Service provides optical network capability to customers requiring connections at transmission rates of 155.52 Mbps (OC3). Synchronous Optical Channel Service is provided between two customer designated premises (CDP) through one or more Telephone Company wire centers, or between a CDP and a wire center equipped with Asynchronous Transfer Mode Cell Relay Access Service, or between a CDP and a wire center equipped for Add/Drop Multiplexing (ADM). In addition, customers at an ADM equipped wire center may add or drop bandwidth capacity from the synchronous optical channel for delivery to a customer designated premises, WATS office, Public Packet Data Network Service, or another wire center.

OC3/OC3c Synchronous Optical Channel Service may also be provided between a customer designated premises and a Telephone Company designated DSL Access Service Connection Point.

Each channel will be configured with one working and one protect fiber pair within the same sheath between the CDP and the serving wire center of the CDP which provides redundancy to protect the customer's service. Should a failure occur, the SONET technology will automatically switch the customer's transmission to the dedicated protect fiber pair.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.2 Service Descriptions (cont'd.)

D) Synchronous Optical Channel Service (cont'd)

1) Basic Channel Description (cont'd)

The customer may provide node and port equipment at the CDP which allows the high speed optical carrier channel to be converted to an electrical signal at a lower speed. The provision of such equipment by the customer is subject to compatibility with the Telephone Company's equipment in the serving wire center and must comply with the standards specified in GR-253-CORE.

The OC3 channel is available in a non-concatenated format (OC3) which provides three individual signals. The OC3 channel is also available in a concatenated format (OC3c) which provides a single signal appropriate for data transmissions.

A term discount is available for Synchronous Optical Channel Service rate elements and optional features and functions. The term discount is based on ICB.

Rates and charges for Synchronous Optical Channel Service are as set forth in Section 5.

3.2.3 Channel Interface and Network Channel Codes

This section explains the Channel Interface codes and Network Channel codes that the Customer must specify when ordering Special Access Service. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

Example: if the Customer specifies a NT Network Channel Code and a 2DC8-3 Channel Interface at the Customer's premises, the following is being requested:

| | | |
|----|---|---|
| NT | = | Metallic Channel with a Predefined technical Specification Package (1) |
| 2 | = | Number of physical wires at customer premises |
| DC | = | Facility interface for direct current or voltage |
| 8 | = | Variable impedance level |
| 3 | = | Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud) |

A) Glossary of Channel Interface Codes and Options

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|--|
| AB | - | accepts 20 Hz ringing signal at customer's point of termination |
| AC | - | accepts 20 Hz ringing signal at customer's end user's point of termination |
| AH | - | analog high capacity interface |
| | - B | 60 kHz to 108 kHz (12 channels) |
| | - C | 312 kHz to 552 kHz (60 channels) |
| | - D | 564 kHz to 3084 kHz (600 channels) |
| CT | - | Centrex Tie Trunk Termination |
| DA | - | data stream in VF frequency band at customer's end user's point of termination |
| DB | - | data stream in VF frequency band at customer's point of termination |
| | - 10 | VF for TG1 and TG2 |
| | - 43 | VF for 43 Telegraph Carrier type signals, TG1 and TG2 |

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

A) Glossary of Channel Interface Codes and Options (cont'd.)

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|---|
| DS | - | digital hierarchy interface |
| | - 15 | 1.544 Mbps (DS1) format per PUB 41451 plus D4 |
| | - 15E | 8-bit PCM encoded in one 64 kbps on the DS1 signal |
| | - 15F | 8-bit PCM encoded in two 64 kbps of the DS1 signal |
| | - 15G | 8-bit PCM encoded in three 64 kbps of the DS1 signal |
| | - 15H | 14/11-bit PCM encoded in six 64 kbps of the DS1 signal |
| | - 15J | 1.544 Mbps format per PUB 41451 |
| | - 15K | 1.544 Mbps format per PUB 41451 plus extended framing format |
| | - 15L | 1.544 Mbps (DS1) with SF signaling |
| | - 44 | 44.736 Mbps (DS3) |
| DU | - 44L | 44.736 Mbps (DS3) with SF signaling |
| | - | digital access interface |
| | - 19 | 19.2 kbps |
| | - 24 | 2.4 kbps |
| | - 48 | 4.8 kbps |
| | - 56 | 56.0 kbps |
| | - 96 | 9.6 kbps |
| | - A | 1.544 Mbps format per PUB 41451 |
| | - B | 1.544 Mbps format per PUB 41451 plus D4 |
| | - C | 1.544 Mbps format per PUB 41451 plus extended framing format |
| DX | - | duplex signaling interface at customer's point of termination |

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

A) Glossary of Channel Interface Codes and Options (cont'd.)

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|--|
| DY | - | duplex signaling interface at customer's end user's point of termination |
| EA | - E | Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead |
| EA | - M | Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead |
| EB | - E | Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead |
| EB | - M | Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead |
| EC | - | Type III E&M signaling at customer POT |
| EX | - A | tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions |
| EX | - B | tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions |
| GO | - | ground start loop signaling - open end function by customer |
| GS | - | ground start loop signaling - closed end function by customer or customer's end user |
| IA | - | E.I.A. (25 pin RS-232) |
| LA | - | end user loop start loop signaling - Type A OPS registered port open end |
| LB | - | end user loop start loop signaling - Type B OPS registered port open end |
| LC | - | end user loop start loop signaling - Type C OPS registered port open end |

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

A) Glossary of Channel Interface Codes and Options (cont'd.)

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|---|
| LO | - | loop start loop signaling - open end function by customer or customer's end user |
| LR | - | 20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR |
| LS | - | loop start signaling - closed end function by customer or customer's end user |
| NO | - | no signaling interface, transmission only program transmission - no dc signaling |
| | - 1 | nominal frequency from 50 to 15000 Hz |
| | - 3 | nominal frequency form 200 to 3500 Hz |
| | - 5 | nominal frequency from 100 to 5000 Hz |
| | - 8 | nominal frequency from 50 to 8000 Hz |
| PR | - | protective relaying* |
| RV | - 0 | reverse battery signaling, one way operation, originate by customer |
| | - T | reverse battery signaling, one way operation, terminate function by customer or customer's end user |
| SF | - | single frequency signaling with VF band at either customer POT or customer's end user POT |
| TF | - | telephotograph interface |

* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

B) Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

| <u>Value (ohms)</u> | <u>Code(s)</u> |
|---------------------|----------------|
| 110 | 0 |
| 150 | 1 |
| 600 | 2 |
| 900 | 3+ |
| 135 | 5 |
| 75 | 6 |
| 124 | 7 |
| Variable | 8 |
| 100 | 9 |

- + For those interface codes with a 4-wire transmission path at the customer designated POT, rather than a standard 900 ohm impedance, the code (3) denotes a customer provided transmission equipment termination.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

C) Digital Hierarchy Channel Interface Codes (4DS)

Customers selecting multiplexing four-wire DSX-1 or higher facility interface option at the Customer designated premises will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS9, 4DS0 or 4DS6 plus the speed options indicated below:

| <u>Interface Code and Speed Option</u> | <u>Nominal Bit Rate (Mbps)</u> | <u>Digital Hierarchy Level</u> |
|--|------------------------------------|------------------------------------|
| 4DS8-15 | 1.544 | DS1 |
| 4DS6-44 | 44.736 | DS3 |

D) Service Designator/Network Channel Code Conversion Table

The purpose of this table is to show the relationship between the service designator codes (e.g., VGC, MT2, etc.) and the network channel codes that are used for various administrative purposes:

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

D) Service Designator/Network Channel Code Conversion Table
(cont'd)

| <u>Service Designator</u> <u>Code</u> | <u>Network Channel</u> <u>Code</u> |
|--|---------------------------------------|
| VGC | LQ |
| VG1 | LB |
| VG2 | LC |
| VG3 | LD |
| VG4 | LE |
| VG5 | LF |
| VG6 | LG |
| VG7 | LH |
| VG8 | LJ |
| VG9 | LK |
| VG10 | LN |
| VG11 | LP |
| VG12 | LR |
| DA1 | XA |
| DA2 | XB |
| DA3 | XG |
| DA4 | XH |
| HCO | HS |
| HC1 | HC |
| HC3 | HF |

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces

The following tables show the channel interface codes (CIs) which are compatible:

1) Voice Grade

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|------|-----------------------|------|-----------------------|--------|
| 4AB2 | 4AB2 | | | | |
| 4AB2 | 4AC2 | 4AH5-B | 6DA2 | 4AH6-D | 2DY2 |
| 4AB3 | 4AC2 | 4AH5-B | 4DA2 | 4AH6-C | 9DY2 |
| 4AB2 | 2AC2 | 4AH5-B | 2DA2 | 4AH6-C | 9DY3 |
| 4AB3 | 2AC2 | | | 4AH6-C | 6DY2 |
| 2AB2 | 2AC2 | 4AH6-D | 4DE2 | 4AD6-C | 6DY3 |
| 2AB3 | 2AC2 | 4AH6-C | 4DE2 | 4AH6-C | 4DY2 |
| 4AB2 | 4SF2 | 4AH5-B | 4DE2 | 4AH6-C | 2DY2 |
| 4AB3 | 4SF2 | 4AH6-D | 2DE2 | 4AH5-B | 9DY2 |
| 4AC2 | 4AC2 | 4AH6-C | 2DE2 | 4AH5-B | 9DY3 |
| 4AC2 | 2AC2 | 4AH5-B | 2DE2 | 4AH5-B | 6DY2 |
| 4AH6-D | 4AC2 | | | 4AH5-B | 6DY3 |
| 4AH6-D | 2AC2 | 4AH6-D | 4DX3 | 4AH5-B | 4DY2 |
| 4AH6-C | 41C2 | 4AH6-C | 4DX3 | 4AH5-B | 2DY2 |
| 4AH6-C | 2AC2 | 4AH5-B | 4DX3 | | |
| 4AH5-B | 4AC2 | 4AH6-D | 4DX2 | 4AH6-D | 9EA2 |
| 4AH5-B | 2AC2 | 4AH6-C | 4DX2 | 4AH6-D | 9EA3 |
| | | 4AH5-B | 4DX2 | 4AH6-D | 6EA2-E |
| 4AH6-D | 2CT3 | | | 4AH6-D | 6EA2- |
| 4AH6-C | 2CT3 | 4AH6-D | 9DY2 | 4AH6-D | 4EA2-E |
| 4AH5-B | 2CTS | 4AH6-D | 9DY3 | 4AH6-D | 4EA2- |
| 4AH6-D | 6DA2 | 4AH6-D | 6DY2 | 4AH6-C | 9EA2 |
| 4AH6-D | 4DA2 | 4AH6-D | 6DY3 | 4AH6-C | 9EA3 |
| 4AH6-D | 2AD2 | 4AH6-D | 4DY2 | 4AH6-C | 6EA2-E |
| 4AH6-C | 6DA2 | | | | |
| 4AH6-C | 4DA2 | | | | |
| 4AH6-C | 2DA2 | | | | |

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd)

1) Voice Grade (cont'd.)

| <u>Compatible Cls</u> | | <u>Compatible Cls</u> | | <u>Compatible Cls</u> | |
|-----------------------|--------|-----------------------|------|-----------------------|------|
| 4AH6-C | 6EA2-M | 4AH6-D | 6GS2 | 4AH6-D | 2LO2 |
| 4AH6-C | 4EA2-E | 4AH6-D | 4GS2 | 4AH6-C | 2LO3 |
| 4AH6-C | 4EA2-M | 4AH6-D | 2GS3 | 4AH6-C | 2LOS |
| 4AH5-B | 9EA2 | 4AH6-D | 2GS2 | 4AH5-B | 2LO3 |
| 4AH5-B | 9EA3 | 4AH6-C | 6GS2 | 4AH5-B | 2LO2 |
| 4AH5-B | 6EA2-E | 4AH6-C | 4GS2 | | |
| 4AH5-B | 6EA2-M | 4AH6-C | 2GS3 | 4AH6-D | 4LR2 |
| 4AH5-B | 4EA2-E | 4AH6-C | 2GS2 | 4AH6-D | 2LR2 |
| 4AH5-B | 4EA2-M | 4AH5-B | 6GS2 | 4AH6-C | 4LR2 |
| 4AHR-B | 4GS2 | 4AH6-C | 2LR2 | | |
| 4AH6-D | 8EB2-E | 4AH5-B | 2GS3 | 4AH5-B | 4LR2 |
| 4AH6-D | 8EB2-M | 4AH5-B | 2GS2 | 4AH5-B | 2LR2 |
| 4AH6-D | 6EB2-E | | | | |
| 4AH6-D | 6EB2-M | 4AH6-D | 2LA2 | 4AH6-D | 6LS2 |
| 4AH6-C | 8EB2-E | 4AH6-C | 2LA2 | 4AH6-D | 4LS2 |
| 4AH6-C | 8EB2-M | 4AH5-B | 2LA2 | 4AH6-D | 2LS2 |
| 4AH6-C | 6EB2-E | 4AH6-D | 2LS3 | | |
| 4AH6-C | 6EB2-M | 4AH6-D | 2LB2 | 4AH6-C | 6LS2 |
| 4AH5-B | 8EB2-E | 4AH6-C | 2LB2 | 4AH6-C | 4LS2 |
| 4AH5-B | 8EB2-M | 4AH5-B | 2LB2 | 4AH6-C | 2LS2 |
| 4AH5-B | 6EB2-E | 4AH6-C | 2LS3 | | |
| 4AH5-B | 6EB2-M | 4AH6-D | 2LC2 | 4AH5-B | 6LS2 |
| | | 4AH6-C | 2LC2 | 4AH5-B | 4LS2 |
| 4AH6-D | 2GO2 | 4AH5-B | 2LC2 | 4AH5-B | 2LS2 |
| 4AH6-D | 2GO3 | 4AH5-B | 2LS3 | | |
| 4AH6-C | 2GO2 | 4AH6-D | 2LO3 | | |
| 4AH6-C | 2GO3 | | | | |
| 4AH5-B | 2GO2 | 4AH5-B | 2GO3 | | |

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd.)

1) Voice Grade (cont'd.)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| 4AH6-D | 4NO2 | 4AH6-D | 4TF2 | 2CT3 | 6EB2-E |
| 4AH6-D | 2NO2 | 4AH6-D | 2TF2 | 2CT3 | 6EB2- |
| 4AH6-C | 4NO2 | 4AH6-C | 4TF2 | 2CT3 | 6EB3-E |
| 4AH6-C | 2NO2 | 4AH6-C | 2TF2 | | |
| 4AH5-B | 4NO2 | 4AH5-B | 4TF2 | 2CT3 | 8EB2-E |
| | | 2CT3 | 2CT3 | | |
| 4AH6-D | 4PR2 | 2CT3 | 4DS8 | 2CT3 | 8EC2 |
| 4AH6-D | 2PR2 | | | | |
| 4AH6-C | 4PR2 | 2CT3 | 6DX2 | 2CT3 | 4SF2 |
| 4AH6-C | 2PR2 | 2CT3 | 4DX2 | 2CT3 | 4SF3 |
| 4AH5-B | 4PR2 | 2CTS | 4DX3 | | |
| 4AH5-B | 2PR2 | | | | |
| 4AH6-D | 4RV2-T | 2CT3 | 9DY3 | | |
| 4AH6-D | 2RV2-T | 2CT3 | 6DY3 | | |
| 4AH6-C | 4RV2-T | 2CT3 | 9DY2 | | |
| 4AH6-C | 2RV2-T | 2CT3 | 6DY2 | | |
| 4AH5-B | 4RV2-T | 2CT3 | 4DY2 | | |
| 4AH5-B | 2RV2-T | 2CT3 | 2DY2 | | |
| 4AH6-D | 4SF2 | 2CT3 | 9EA3 | | |
| 4AH6-C | 4SF2 | 2CT3 | 9EA2 | | |
| 4AH5-B | 4SF2 | 2CT3 | 6EA2-E | | |
| 4AH6-D | 4SF3 | 2CT3 | 6EA2-M | | |
| 4AH6-C | 4SF3 | 2CT3 | 4EA2-E | | |
| 4AH5-B | 4SF3 | 2CT3 | 4EA2-M | | |

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd.)

1) Voice Grade (cont'd.)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> |
|-----------------------|------|-----------------------|--------|-----------------------|
| | | 4DS8 | 4AC2 | |
| | | 4DS8 | 2AC2 | |
| | | 4DS8 | 6DA2 | |
| | | 4DS8 | 4DA2 | |
| | | 4DS8 | 2DA2 | |
| 6DA2 | 6DA2 | | | |
| 6DA2 | 4DA2 | | | |
| 6DA2 | 2DA2 | 4DS8 | 4DE2 | |
| 4DA2 | 4DA2 | 4DS8 | 2DE2 | |
| 4DA2 | 2DA2 | | | |
| 2DA2 | 2DA2 | 4DS8 | 4DX3 | |
| 4DB2 | 6DA2 | 4DS8 | 4DX2 | |
| 4DB2 | 4DA2 | | | |
| 4DB2 | 2DA2 | 4DS8 | 9DY3 | |
| 2DB3 | 2DA2 | 4DS8 | 9DY2 | |
| 2DB2 | 2DA2 | 4DS8 | 6DY3 | |
| 4DB2 | 4DB2 | 4DS8 | 6DY2 | |
| 4DB2 | 4NO2 | 4DS8 | 4DY2 | |
| 4DB2 | 2NO2 | 4DS8 | 2DY2 | |
| 2DB2 | 2NO2 | | | |
| | | 4DS8 | 9EA2 | |
| 4DB2 | 4PR2 | 4DS8 | 9EA3 | |
| 4DB2 | 2PR2 | 4DS8 | 6EA2-E | |
| 4DB2 | 2PR2 | 4DS8 | 6EA2-M | |
| | | 4DS8 | 4EA2-E | |
| 4DD3 | 4DE2 | 4DS8 | 4EA2-M | |
| 4DD3 | 2DE2 | | | |

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd.)

1) Voice Grade (cont'd.)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| 4DS8 | 8EB2-E | 4DS8 | 4NO2 | 4DX3 | 9DY2 |
| 4DS8 | 8EB2-M | 4DS8 | 2NO2 | 4DX2 | 6DY3 |
| 4DS8 | 6EB2-E | | 4DX3 | 6DY3 | |
| 4DS8 | 6EB2-M | 4DS8 | 4PR2 | 4DX2 | 6DY2 |
| | | 4DS8 | 2PR2 | 4DX3 | 6DY2 |
| 4DS9 | 2GO2 | | | 4DX2 | 4DY2 |
| 4DS8 | 2GO3 | 4DS8 | 4RV2-7 | 4DX3 | 4DY2 |
| 4DS8 | 6GS2 | 4DS8 | 2RV2-T | 4DX2 | 2DY2 |
| 4DS8 | 4GS2 | | | 4DX3 | 2DY2 |
| 4DS8 | 2GS2 | 4DS8 | 4SF2 | | |
| 4DS8 | 2GS3 | 4DS8 | 4SF3 | 6DX2 | 9EA3 |
| | | | | 6DX2 | 9EA |
| 4DS8 | 2LA2 | 4DS8 | 4TF2 | 6DX2 | 6EA2-E |
| 4DS8 | 2TF2 | 6DX2 | 6EA2-M | | |
| 4DS8 | 2LB2 | | | 6DX2 | 4EA2-E |
| | | 4DX2 | 4DX2 | 6DX2 | EA2-M |
| 4DS8 | 2LC2 | 4DS3 | 4DX2 | 4DX2 | 9EA2 |
| | | 4DX3 | 4DX3 | 4DX3 | 9EA2 |
| 4DS8 | 2LO2 | | | 4DX2 | 9EA3 |
| 4DS8 | 2LO3 | 6DX2 | 9DY3 | 4DX3 | 9EA3 |
| | | 6DX2 | 9DY2 | 4DX2 | 6EA2-E |
| 4DS8 | 4LR2 | 6DX2 | 6DY3 | 4DX3 | 6EA2-E |
| 4DS8 | 2LR2 | 6DX2 | 6DY2 | 4DX2 | 6EA2- |
| | | 6DX2 | 4DY2 | 4DX3 | 6EA2- |
| 4DS8 | 6LS2 | 6DX2 | 2DY2 | 4DX2 | 4EA2-E |
| 4DS8 | 4LS2 | 4DX2 | 9DY3 | 4DX3 | 4EA2-E |
| 4DS8 | 2LS2 | 4DX3 | 9DY3 | 4DX2 | 4EA2-M |
| 4DS8 | 2LS3 | 4DX2 | 9DY2 | 4DX3 | 4EA2-M |

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd.)

| 1) <u>Voice Grade (cont'd.)</u> | | | | | |
|---------------------------------|--------|-----------------------|--------|-----------------------|------|
| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
| 6DX2 | 8EB2-E | 4DX2 | 6LS2 | 9DY2 | 6DY3 |
| 6DX2 | 8EB2-M | 4DX3 | 6LS2 | 9DY3 | 4DY2 |
| 6DX2 | 6EB2-E | 4DX3 | 4LS2 | 9DY2 | 4DY2 |
| 6DX2 | 6EB2-M | 4DX2 | 4LS2 | 9DY2 | 2DY2 |
| 4DX2 | 8EB2-E | 4DX3 | 2LS3 | 9DY3 | 2DY2 |
| 4DX2 | 8EB2-M | 4DX2 | 2LS3 | 6DY3 | 6DY3 |
| 4DX3 | 8EB2-E | 4DX3 | 2LS2 | 6DY3 | 6DY2 |
| 4DX3 | 8EB2-M | 4DX2 | 2LS2 | 6DY2 | 6DY2 |
| 4DX2 | 6EB2-E | 2DX3 | 2LS2 | 6DY3 | 4DY2 |
| 4DX2 | 6EB2-M | 2DX3 | 2LS3 | 6DY3 | 2DY2 |
| 4DX3 | 6EB2-E | 6DY2 | 4DY2 | | |
| 4DX3 | 6EB2-M | 4DX3 | 4RV2-T | 6DY2 | 2DY2 |
| 4DX2 | 4RV2-T | 4DY2 | 2DY2 | | |
| 4DX2 | 2LA2 | 4DX3 | 2RV2-T | 4DY2 | 4DY2 |
| 4DX3 | 2LA2 | 4DX2 | 2RV2-T | 2DY2 | 2DY2 |
| 2DX3 | 2LA2 | | | 6EA2-E | 4AC2 |
| | | 6DX2 | 4SF2 | 63A2-M | 4AC2 |
| 4DX2 | 2LB2 | 4DX2 | 4SF2 | 6EA2-E | 2AC2 |
| 4DX3 | 2LB2 | 4DX3 | 4SF2 | 6EA2-M | 2AC2 |
| 2DX3 | 2LB2 | 4DX2 | 4SF3 | | |
| | | 4DX3 | 4SF3 | 9EA2 | 9DY3 |
| 4DX2 | 2LC2 | | | 9EA2 | 9DY2 |
| 4DX3 | 2LC2 | 9DY3 | 9DY3 | 9EA2 | 6DY3 |
| 2DX3 | 2LC2 | 9DY3 | 9DY2 | 9EA2 | 6DY2 |
| | | 9DY2 | 9DY2 | 9EA2 | 4DY2 |
| 4DX2 | 2LO3 | 9DY3 | 6DY3 | 9EA2 | 2DY2 |
| 4DX3 | 2LO3 | 9DY3 | 6DY2 | 9EA3 | 9DY3 |
| 2DX3 | 2LO3 | 9DY2 | 6DY2 | | |

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd.)

1) Voice Grade (cont'd.)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|------|-----------------------|--------|-----------------------|--------|
| 9EA3 | 9DY2 | 4EA2-M | 9DY2 | 4EA3-E | 9EA2 |
| 9EA3 | 6DY3 | 4EA2-M | 6DY3 | 4EA3-E | 9EA3 |
| 9EA3 | 6DY2 | 4EA2-M | 6DY2 | 4EA2-M | 4EA2-M |
| 9EA3 | 4DY2 | 4EA2-M | 4DY2 | | |
| 9EA3 | 2DY2 | 4EA2-M | 2DY2 | 9EA2 | 8EB2-E |
| 6EA2-E | 9DY3 | | | 9EA2 | EB2-M |
| 6EA2-E | 9DY2 | 9EA2 | 9EA2 | 9EA2 | 6EB2-E |
| 6EA2-E | 6DY3 | 9EA2 | 9EA3 | 9EA2 | EB2-M |
| 6EA2-E | 6DY2 | 9EA2 | 6EA2-E | 9EA3 | 93B2-E |
| 6EA2-E | 4DY2 | 9EA2 | 6EA2-M | 9EA3 | 8EB2-M |
| 6EA2-E | 2DY2 | 9EA2 | 4EA2-E | 9EA3 | 6EB2-E |
| 6EA2-M | 9DY3 | 9EA2 | 4EA2-M | 9EA3 | 6EB2-M |
| 6EA2-M | 9DY2 | 9EA3 | 9EA3 | 6EA2-E | 8EB2-E |
| 6EA2-M | 6DY3 | 9EA3 | 6EA2-E | 6EA2-E | 8EB2-M |
| 6EA2-M | 6DY2 | 9EA3 | 6EA2-M | 6EA2-E | 6EB2-E |
| 6EA2-M | 4DY2 | 9EA3 | 4EA2-E | 6EA2-E | 6EB2-M |
| 6EA2-M | 2DY2 | 9EA3 | 4EA2-M | 6EA2-M | 8EB2-E |
| 4EA2-E | 9DY3 | 6EA2-3 | 6EA2-E | 6EA2-M | 8EB2-M |
| 4EA2-E | 9DY2 | 6EA2-E | 6EA2-M | 6EA2-M | 6EB2-E |
| 4EA3-E | 9DY3 | 6EA2-M | 6EA2-M | 6EA2-M | 6EB2-M |
| 4EA3-E | 9DY2 | 6EA2-E | 4EA2-E | 4EA2-E | 8EB2-E |
| 4EA3-E | 6DY3 | 6EA2-E | 4EA2-M | 4EA2-E | 8EB2-M |
| 4EAS-E | 6DY2 | 6EA2-M | 4EA2-E | 4EA3-E | 9EB2-E |
| 4EA3-E | 4DY2 | 6EA2-M | 4EA2-M | 4EA3-E | 8EB2-M |
| 4EA3-E | 2DY2 | 4EA2-E | 4EA2-E | 4EA2-E | 6EB2-E |
| EAS2-E | 6DY3 | 4EA3-E | 6EA2-E | 4EA2-E | 6EB2-M |
| 4EA2-E | 6DY2 | 4EA3-E | 6EA2-M | 4EA3-E | 6EB2-E |
| 4EA2-E | 4DY2 | 4EA3-E | 4EA2-E | 4EA3-E | 6EB2-M |
| 4EA2-E | 2DY2 | 4EAS-E | 4EA2-M | 4EA2-M | 8EB2-E |
| 4EA2-M | 9DY3 | 4EA2-E | 4EA2-M | | |

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3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd.)

| 1) <u>Voice Grade (cont'd.)</u> | | | | | |
|---------------------------------|--------|-----------------------|------|-----------------------|--------|
| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
| 4EA2-M | 8EB2-M | 9EA3 | 4SF2 | 6EB3-E | 9DY2 |
| 4EA2-M | 6EB2-E | 9EA2 | 4SF2 | 6EB3-E | 9DY3 |
| 4EA2-M | 6EB2-M | 6EA2-E | 4SF3 | 6EB2-E | 6DY2 |
| | | 6EA2-M | 4SF3 | 6EB3-E | 6DY2 |
| 6EA2-E | 2LA2 | 6EA2-E | 4SF2 | 6EB2-E | 6DY3 |
| 6EA2-M | 2LA2 | 6EA2-M | 4SF2 | 6EB3-E | 6DY3 |
| 4EA3-E | 4SF2 | 6EB2-E | 4DY2 | | |
| 6EA2-E | 2LB2 | 4EA2-E | 4SF2 | 6EB3-E | 2DY2 |
| 6EA2-M | 2LB2 | 4EA2-M | 4SF2 | 6EB3-E | 4DY2 |
| | | | | 6EB2-M | 9DY2 |
| 6EA2-E | 2LC2 | 8EB2-E | 4AC2 | 6EB2-M | 9DY3 |
| 6EA2-M | 2LC2 | 8EB2-M | 4AC2 | 6EB2-M | 6DY2 |
| | | 8EB2-E | 2AC2 | 6EB2-M | 6DY3 |
| 6EA2-E | 2LO3 | 8EB2-M | 2AC2 | 6EB2-M | 4DY2 |
| 6EA2-M | 2LO3 | | | 6EB2-E | 2DY2 |
| | | 8EB2-E | 9DY3 | 6EB2-M | 2DY2 |
| 6EA2-E | 6LS2 | 8EB2-E | 9DY2 | | |
| 6EA2-M | 6LS2 | 8EB2-E | 6DY3 | 6EB3-E | 9EA2 |
| 6EA2-E | 4LS2 | 8EB2-E | 6DY2 | 6EB3-E | 9EA3 |
| 6EA2-M | 4LS2 | 8EB2-E | 4DY2 | 6EB3-E | 6EA2-E |
| 6EA2-E | 2LS2 | 8EB2-E | 2DY2 | 6EB3-E | 6EA2-M |
| 6EA2-M | 2LS2 | 8EB2-M | 9DY3 | 6EB3-E | 4EA2-E |
| 6EA2-E | 2LS3 | 8EB2-M | 9DY2 | 6EB3-E | 4EA2-M |
| 6EA2-M | 2LS3 | 8EB2-M | 6DY3 | | |
| | | 8EB2-M | 6DY2 | 8EB2-E | 8EB2-E |
| 6EA2-E | 4RV2-T | 8EB2-M | 4DY2 | 8EB2-E | 8EB2-M |
| 6EA2-M | 45V2-T | 8EB2-M | 2DY2 | 8EB2-M | 8EB2-M |
| 6EA2-E | 2RV2-T | 6EB2-E | 9DY2 | 8EB2-E | 6EB2-E |
| 6EA2-M | 2RV2-T | 6EB2-E | 9DY3 | 8EB2-E | 6EB2-M |

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3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd.)

1) Voice Grade (cont'd.)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| 8EB2-M | 6EB2-E | 8EB2-E | 4RV2-T | 8EC2 | 8EB2-M |
| 8EB2-M | 6EB2-M | 8EB2-M | 4RV2-T | 8EC2 | 6EB2-E |
| 6EB2-E | 6EB2-E | 8EB2-E | 2RV2-T | 8EC2 | 6EB2-M |
| 6EB2-E | 6EB2-M | 8EB2-M | 2RV2-T | | |
| 6EB3-E | 8EB2-E | | | 8EC2 | 4SF2 |
| 6EB3-E | 8EB2-M | 8EB2-E | 4SF2 | 6EX2-B | 2G03 |
| 6EB2-M | 6EB2-M | 8EB2-M | 4SF2 | 6EX2-A | 6GS2 |
| | | 8EB2-E | 4SF3 | 6EX2-A | 4GS2 |
| 8EB2-E | 2LA2 | 8EB2-M | 4SF3 | 6EX2-A | 2GS2 |
| 8EB2-M | 2LA2 | 6EB3-E | 4SF2 | 6EX2-A | 2GS3 |
| | | 6EB2-E | 4SF2 | | |
| 8EB2-E | 2LB2 | 6EB2-M | 4SF2 | 6EX2-B | 2LA2 |
| 8EB2-M | 2LB2 | | | | |
| | | 8EC2 | 9DY2 | 6EX2-B | 2LB2 |
| 8EB2-E | 2LC2 | 8EC2 | 9DY3 | | |
| 8EB2-M | 2LC2 | 8EC2 | 6DY2 | 6EX2-B | 2LC2 |
| | | 8EC2 | 6DY3 | | |
| 8EB2-E | 2LO3 | 8EC2 | 4DY2 | 6EX2-B | 2LO2 |
| 8EB2-M | 2LO3 | 8EC2 | 2DY2 | 6EX2-B | 2LO3 |
| 8EB2-E | 6LS2 | 8EC2 | 9EA2 | 6EX2-B | 4LR2 |
| 8EB2-M | 6LS2 | 8EC2 | 9EA3 | 6EX2-B | 2LR2 |
| 8EB2-E | 4LS2 | 8EC2 | 6EA2-E | | |
| 8EB2-M | 4LS2 | 8EC2 | 6EA2-M | 6EX2-A | 6LS2 |
| 8EB2-E | 2LS2 | 8EC2 | 4EA2-E | 6EX2-A | 4LS2 |
| 8EB2-M | 2LS2 | 8EC2 | 4EA2-M | 6EX2-A | 2LS2 |
| 8EB2-E | 2LS3 | | | 6EX2-A | 2LS3 |
| 8EB2-M | 2LS3 | 8EC2 | 8EB2-E | | |

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd.)

1) Voice Grade (cont'd.)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|------|-----------------------|------|-----------------------|------|
| 6EX2-A | 4SF2 | 6LO2 | 6LS2 | 4LR2 | 4SF2 |
| 6EX2-B | 4SF2 | 6LO2 | 4LS2 | 4LR3 | 4SF2 |
| | | 6LO2 | 2LS2 | | |
| 6GO2 | 6GS2 | 6LO2 | 2LS3 | 6LS2 | 2LA2 |
| 6GO2 | 4GS2 | 4LO2 | 6LS2 | 4LS2 | 2LA2 |
| 6GO2 | 2GS2 | 4LO2 | 4LS2 | 4LS3 | 2LA2 |
| 6GO2 | 2GS3 | 4LO3 | 6LS2 | 2LS2 | 2LA2 |
| 4GO3 | 6GS2 | 4LO3 | 4LS2 | 2LS3 | 2LA2 |
| 4GO3 | 6GS2 | 4LO3 | 2LS3 | | |
| 4GO2 | 4GS2 | 4LO3 | 2LS2 | 6LS2 | 2LB2 |
| 4GO3 | 4GS2 | 4LO3 | 2LS2 | 4LS2 | 2LB2 |
| 4GO2 | 2GS2 | 4LO3 | 2LS3 | 4LS3 | 2LB2 |
| 4GO2 | 2GS3 | 2LO3 | 2LS3 | 2LS2 | 2LB2 |
| 4GO3 | 2GS2 | 2LO3 | 2LS2 | 2LS3 | 2LB2 |
| 4GO3 | 2GS3 | 2LO2 | 2LS2 | | |
| 2GO2 | 2GS2 | 2LO2 | 2LS3 | 6LS2 | 2LC2 |
| 2GO3 | 2GS2 | | | 4LS2 | 2LC2 |
| 2GO2 | 2GS3 | 6LO2 | 4SF2 | 4LS3 | 2LC2 |
| 2GO3 | 2GS3 | 4LO2 | 4SF2 | 2LS2 | SLC2 |
| | | 4LO3 | 4SF2 | 2LS3 | 2LC2 |
| 6GO2 | 4SF2 | | | | |
| 4GO2 | 4SF2 | 4LR3 | 4LR2 | 6LS2 | 2LO3 |
| 4GO3 | 4SF2 | 4LR3 | 2LR2 | 6LS2 | 2LO2 |
| | | 4LR2 | 4LR2 | 4LS2 | 2LO2 |
| 6GS2 | 2GO2 | 4LR2 | 2LR2 | 4LS2 | 2LO3 |
| 4GS2 | 4GO2 | 2LR2 | 2LR2 | 4LS3 | 2LO2 |
| 4GS3 | 2GO2 | 2LR3 | 2LR2 | 4LS3 | 2LO3 |
| 4GS2 | 2GO3 | | | | |

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3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd.)

| 1) <u>Voice Grade (cont'd.)</u> | | | | | |
|---------------------------------|---------|-----------------------|--------|-----------------------|--------|
| <u>Compatible Cls</u> | | <u>Compatible Cls</u> | | <u>Compatible Cls</u> | |
| 6LS2 | 4SF2 | 4SF3 | 9DY2 | 4SF3 | 2LA2 |
| 4LS3 | 4SF2 | 4SF2 | 9DY3 | | |
| | | 4SF3 | 6DY3 | 4SF2 | 2LB2 |
| 4NO2 | 6DA2 | 4SF2 | 6DY2 | 4SF3 | 2LB2 |
| 4NO2 | 4DA2 | 4SF2 | 6DY3 | | |
| 4NO3 | 2DA2 | 4SF3 | 6DY2 | 4SF2 | 2LC2 |
| 2NO2 | 6DA2 | 4SF2 | 4DY2 | 4SF3 | 2LC2 |
| 2NO2 | 4DA2 | 4SF3 | 4DY2 | | |
| 2NO2 | 2DA2 | 4SF3 | 2DY2 | 4SF2 | 2LO3 |
| 4NO2 | 4DE2 | 4SF2 | 2DY2 | 4SF3 | 2LO3 |
| 4NO2 | 2DE2 | | | | |
| 4NO2 | 4NO2 | 4SF3 | 9EA2 | 4SF2 | 2LR2 |
| 4NO2 | 2NO2 | 4SF3 | 9EA3 | 4SF3 | 4LR2 |
| 2NO2 | 2NO2 | 4SF3 | 4EA2-E | 4SF3 | 2LR2 |
| 2NO3 | 2NO2 | 4SF3 | 4EA2-M | | |
| | | | | 4SF3 | 6LS2 |
| 2NO3 | 2PR2 | 4SF3 | 6EB2-E | 4SF2 | 4LS2 |
| | | 4SF3 | 6EB2-M | 4SF3 | 4LS2 |
| 4RV2-0 | 4LRV2-T | 4SF2 | 2GO3 | 4SF2 | 2LS2 |
| 4RV2-0 | 2RV2-T | 4SF3 | 6GS2 | 4SF2 | 2LS3 |
| 2RV2-0 | 2RV2-T | 4SF2 | 6GS2 | 4SF3 | 2LS2 |
| | | 4SF2 | 4GS2 | 4SF3 | 2LS3 |
| 4RV2-0 | 4SF2 | 4SF3 | 4GS2 | | |
| | | 4SF2 | 2GS2 | 4SF3 | 4RV2-T |
| 4SF2 | 4AC2 | 4SF2 | 2GS3 | 4SF2 | 4RV2-T |
| 4SF2 | 2AC2 | 4SF3 | 2GS2 | 4SF2 | 2RV2-T |
| 4SF3 | 2GS3 | 4SF3 | | | 2RV2-T |
| 4SF3 | 9DY3 | | | | |
| 4SF2 | 9DY2 | 4SF2 | 2LA2 | 4SF3 | 4SF3 |

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3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd.)

The following tables show the channel interface codes (CIs) which are compatible:

1) Voice Grade (cont'd.)

Compatible CIs

| | |
|------|------|
| 4SF3 | 4SF2 |
| 4SF2 | 4SF2 |
| 4TF2 | 4TF2 |
| 4TF2 | 2TF2 |
| 2TF3 | 2TF2 |

2) Digital Data

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|----------|-----------------------|---------|-----------------------|---------|
| 4DS8-15 | 4DS8-15+ | 4DS8-15 | 6DU5-48 | | |
| 4DS8-15 | 4DUR-24 | 4DS8-15 | 6DU5-56 | 4DU5-96 | 4DU5-96 |
| 4DS8-15 | 4DU5-48 | 4DS8-15 | 6DU5-96 | 6DU5-24 | 6DU5-24 |
| 4DS8-15 | 4DU5-56 | 4DU5-24 | 4DU5-24 | 6DU5-48 | 6DU5-48 |
| 4DS8-15 | 4DU5-96 | 4DU5-48 | 4DUR-48 | 6DU5-56 | 6DUR-56 |
| 4DS8-15 | 6DU5-24 | 4DU5-56 | 4DU5-56 | 6DU5-96 | 6DUR-96 |

+ Available only as a cross connect of two digital channels at appropriate digital speeds at a Telephone Company Hub.

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.3 Channel Interface and Network Channel Codes (cont'd.)

E) Compatible Channel Interfaces (cont'd.)

3) High Capacity

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|----------------|-----------------------|---------------|
| 4DSO-63 | 4DSO-63 | 4DS8-15 | 4DU8-B |
| 4DSO-63 | 6DU8-A,B or C | 4DS8-15J | 6DU8-A |
| 4DSO-63 | 4DU8-A,B or C | 4DS8-15J | 4DU8-A |
| 4DS6-27 | 4DS6-27 | 4DS8-15K | 6DU8-B |
| 4DS6-27 | 6DU8-A,B or C | 4DS8-15K | 4DU8-B |
| 4DS6-27 | 4DU8-A,B or C | 4DS8-15K | 6DU8-C |
| 4DS6-44 | 4DS6-44 | 4DS8-15K | 4DU8-C |
| 4DS6-44 | 6DU8-A,B, or C | 4DS9-31 | 4DS9-31 |
| 4DS6-44 | 4DU8-A,B or C | 4DS9-31 | 6DU8-A,B or C |
| 4DS8-15 | 4DS8-15+ | 4DS9-31 | 4DU8-A,B or C |
| 4DS8-15J | 4DS8-15J | 4DU8-A,B or C | 4DU8-A,B or C |
| 4DS8-15K | 4DS8-15K | | |
| 4DS8-15 | 6DU8-B | | |

+ Available only as a cross connect of two digital channels at appropriate digital speeds at a Telephone Company Hub.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.4 Rate Regulations

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

A) Types of Rates and Charges

There are two types of rates and charges. These are monthly rates and nonrecurring charges. The rates and charges are described as follows:

1) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a Special Access Services is provided. For billing purposes, each month is considered to have 30 days.

2) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements.

(a) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set forth in 5.2 following as a nonrecurring charge for the Channel Termination rate element.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.4 Rate Regulations (cont'd.)

A) Type of Rates and Charges (cont'd.)

2) Nonrecurring Charges (cont'd.)

(b) Installation of Optional features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of service.

The optional features for which nonrecurring charges apply are:

- Voice Grade Data Capability
- Voice Grade Telephone Capability

(c) Service Rearrangements

Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements (i.e., change in type of service or change in channel termination) or a change in the physical location of the point of termination at a customer designated premises. Changes in the physical location of the point of the termination are treated as moves and are described and charged for as set forth in 3.2.7 following.

The charge to the Customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change in service.

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.4 Rate Regulations (cont'd.)

A) Types of Rates and Charges (cont'd.)

2) Nonrecurring Charges (cont'd.)

(c) Service Rearrangements (cont'd.)

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

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

All other service rearrangements will be charged for as follows:

- If the change involves the addition of another leg to an existing multipoint service, the nonrecurring charge for the channel termination rate element will apply. The charge will apply only for the leg that is being added.
- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.

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3.2 Special Access Service (cont'd.)

3.2.4 Rate Regulations (cont'd.)

A) Types of Rates and Charges (cont'd.)

2) Nonrecurring Charges (cont'd.)

c) Service Rearrangements (cont'd.)

- If the change involves changing the type of signaling on a Voice Grade service, a charge equal to the Voice Grade channel termination rate element nonrecurring charge will apply. The charge will apply per service termination affected.
- For all other changes, including the addition of optional features without separate nonrecurring charges, a charge equal to a channel termination rate element nonrecurring charge will apply. Only one such charge will apply per service, per change.

3.2.5 Surcharge for Special Access Service

In addition to the rates and charges described in 3.2.4(A) preceding, there is a monthly Special Access Surcharge that may apply to Special Access Service.

3.2.6 Minimum Periods

The minimum service period for all services is one month.

3.2.7 Moves

A move involves a change in the physical location of one of the following:

- The Point of termination at the customer's premises.
- The customer's premises.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.7 Moves (cont'd.)

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements.

B) Moves to a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new service. The Customer will also remain responsible for satisfying all outstanding minimum period charges for the disconnected service.

3.2.8 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage is calculated on the airline distance between the locations involved, i.e., the serving wire centers associated with two Customer designated premises, a serving wire center associated with a Customer designated premises and a telephone Company Hub, or two telephone Company Hubs. The serving wire center associated with a Customer designated premises is the serving wire center from which the Customer designated premises would normally obtain dial tone.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.8 Mileage Measurement (cont'd.)

When Hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e., Customer designated premises serving wire center to Hub, Hub to Hub and/or Hub to Customer designated premises serving wire center. However, when any service is routed through a Hub for purposes other than Customer specified bridging or multiplexing (e.g., the Telephone Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the Customer designated premises.

3.2.9 Facility Hubs

A customer has the option of ordering Voice Grade facilities or analog or digital high capacity facilities (i.e., Group, Supergroup, Mastergroup, DS1, DS1C, DS2, DS3 or DS4) to a facility Hub for channelizing to individual services requiring lower capacity facilities (e.g., Voice, etc)

Different locations may be designated as Hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from digital to voice frequency channels

End to end services may be provided on channels of these facilities to a Hub. The transmission performance for the end to end service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.9 Facility Hubs (cont'd.)

The Telephone Company will commence billing the monthly rate for the facility to the Hub on the date specified by the Customer on the service order. Individual services utilizing these facilities may be installed coincident with the installation of the facility to the Hub, or may be ordered and/or installed at a later date, at the option of the Customer. The Customer will be billed for a Voice Grade or a high capacity analog or digital Channel termination, Channel Mileage (when applicable), and the multiplexer at the time the facility is installed. Individual service rates (by service type) will apply for a Channel termination and additional Channel Mileage (as required) for each channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the Customer as each individual service is installed.

Cascading multiplexing occurs when a high capacity analog or digital channel is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a Supergroup facility is de-multiplexed to five Group facilities and then one of the Group facilities is further de-multiplexed to individual Voice Grade channels.

When cascading multiplexing is performed, whether in the same or a different Hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different Hubbing locations, Channel Mileage charges also apply between the Hubs.

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SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.10 Shared Use Digital High Capacity Services

Shared use occurs when Special Access Service and Switched Access Service are provided over the same High Capacity facilities through a common interface. The facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexer). The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate special High Capacity Channel Termination. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the shared use facility. Rating as Special Access will continue until such time as the Customer chooses to use a portion of the available capacity for providing Switched Access Service. As each individual channel is activated for switched Access Service, the Special Access Channel Termination and Channel Mileage rates will be reduced accordingly (e.g., 1/12th for a Group (i.e., WA10 service, 1/24th for a DS1 service. etc.). The Customer must place an order for each individual Switched or Special Access Service utilizing the Shared Use Facilities and specify the channel assignment for each such service.

Switched Access Service rates and charges as set forth 5.1 preceding will apply for each channel of the shared use facility that is used to provide Switched Access Service. Where Special Access Service is provided utilizing a channel of the shared facility to the Hub, High Capacity rates and charges will apply for the facility to the Hub as set forth preceding and individual service rates and charges will apply from the Hub to the Customer designated premises. The rates and charges that will apply to the portion from the Hub to the Customer designated premises will be dependent on the specific type of Special Access Service that is provided (e.g., Voice Grade, etc.). The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions, associated with the service, if any, will apply as set forth in 5.2.1 following.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.11 DS3 High Capacity Service

A) General

44.736 Mbps (DS3) High Capacity Service is provided on a three capacity protected basis. Within each three capacity system, a customer may order individual or multiple DS3 service terminations up to the maximum number of three individual channels available within the system. DS3 service is provided with an electrical interface.

Separate service termination fixed and per mile rates apply for the first DS3 and for each additional service termination (maximum of two) ordered by the same customer between the same locations. The appropriate non-recurring charge will apply for each service termination installed (first and additional).

B) Channel Termination Monthly Rates

The First Channel Termination monthly rates apply to the first service termination installed at a customer designated premises. When more than one DS3 service is ordered between the same two locations (i.e., customer designated premises to customer designated premises or a customer designated premises to a Telephone Company Hub), Additional Service Termination monthly rates apply for each service termination installed on the same or subsequent date at the same customer premises. Disconnection of any DS3 service will be based on ascending order (i.e., the last channel installed will be the first channel removed). The First Channel Termination rates remain in effect until all services are disconnected.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.11 DS3 High Capacity Service (cont'd.)

C) Channel Termination Mileage Measurement

The service termination rate element for DS3 service consists of a fixed rate and a per mile rate. A minimum of one fixed and one per mile rate always applies. The mileage used to determine the monthly rate for distance sensitive service terminations is the airline distance measured in increments of one mile, directly between the customer's designated premises and the Telephone Company serving wire center.

D) Notification of Discontinuance

Notice of discontinuance must be given by the Customer at least thirty days prior to actual discontinuance. Monthly charges will apply for a period of thirty days from the date the Telephone Company receives discontinuance notification or until the requested discontinuance date, whichever period is longer.

E) Service Disconnect

When a customer requests the disconnect of a DS3 service in the three capacity system, the disconnect steps are applied on a last in, first out basis. When only the first DS3 service exits on a three capacity system, that service will be disconnected.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.12 Special Access Term Discount Plan

A) General

The Special Access Term Discount Plan (TDP) applies to Special Access high Capacity DS1 (1.544Mbps) and DS3 (44.736 Mbps) Service. The channel termination, channel mileage termination (fixed), and channel mileage facility (per mile) rates may be discounted based on the length of the service commitment period selected by the Customer. Optional features and functions will not be included in TDP.

Access order charges as set forth in Section 5 preceding will apply for new services installed under a TDP, and are in addition to the nonrecurring charges associated with the installation of the DS1 or DS3 high capacity service as set forth in Section 5 following.

A TDP may be ordered in increments of one month, based on the following plan options;

- Plan A: 12 - 23 months
- Plan B: 24 - 35 months
- Plan C: 36 - 59 months
- Plan D: 60 - 84 months

The Customer must specify the plan and the length of the service commitment period at the time the service is ordered (e.g., Plan C and 48 months).

All eligible high capacity rate elements for a given circuit (channel termination, channel mileage termination (fixed) and channel mileage facility (per mile)) must be ordered for the same commitment period with the same service date for the same customer designated premises or hubbing location.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.12 Special Access Term Discount Plan (cont'd.)

B) Rate Changes

In this section, the term “rate” refers to the charges associated with the entire circuit covered by a TDP. Rate increases or decreases will automatically be applied to the monthly rates for the remaining term of the TDP. If a Telephone Company initiated rate increase causes a customer’s rates to exceed the original rates in effect at the beginning of the TDP, the Customer may cancel the TDP without incurring termination liability charges.

C) Moves

When an end user moves from one location to another, existing TDPs can be transferred with the services that were moved to the new location. Installation or move charges as set forth in Section 5 will apply.

D) Extension of TDP Commitment Period

TDP commitment periods can be extended by the Customer at any time during the term of the plan, up to a maximum of 84 months. The number of months accrued in the current plan will apply toward the new plan selected. For example, a customer having completed 15 months of a 20-month commitment can extend the commitment to 30 months and pay service order charges. The first payment will be considered the 16th payment under the new 30-month Plan.

E) Upgrade in TDP Capacity (DS1 to DS3)

DS1 service ordered with a TDP may be upgraded to DS3 service without incurring termination liability charges. The Customer must subscribe to a new TDP for the DS3 service and pay the associated installation charges. The DS1 disconnect order and the DS3 installation order must be received by the Company at the same time.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.12 Special Access Term Discount Plan (cont'd.)

F) Renewal of a TDP

Two options are available for renewing a TDP:

- (1) At the end of the TDP service commitment prior, the Customer may subscribe to a new TDP at the prevailing rates set forth in Section 5 following. If the Customer does not select a new TDP, the rates will convert to the prevailing month-to-month DS1 or DS3 rates set forth in Section 5 following.
- (2) At any time during the term of a TDP, the Customer may replace an existing TDP with a new TDP for the same circuit at the prevailing rates set forth in Section 5 following. The new TDP must have a term equal to or greater than the existing TDP. The termination liability charges discussed in (G) following will not apply for the TDP which has been replaced.

G) Discontinuance of Service/Termination Liabilities

If the Customer chooses to disconnect all or a portion of the TDP service prior to the expiration of the TDP period (except as noted in (B), (E) and (F) above), Termination Liability charges will apply to those circuits that are disconnected.

If a customer disconnects any portion of their TDP service prior to the end of month 12, the Customer will be liable for the 100% of the payments remaining for the first twelve months and 50% of the payments remaining for the rest of the Plan. If a customer disconnects any portion of their TDP service after the end of the 12th month, the Customer will be liable for 50% of the payments remaining for the rest of the Plan.

SERVICE AND RATE DESCRIPTIONS

3.2 Special Access Service (cont'd.)

3.2.12 Special Access Term Discount Plan (cont'd.)

G) Discontinuance of Service/Termination Liabilities (cont'd.)

For example, a customer disconnecting in the 10th month of a 55-month Plan owes 100% of 3 payments and 50% of 43 payments. A customer disconnecting in the 25th month of the same 55-month Plan owes 50% of 31 payments.

SERVICE AND RATE DESCRIPTIONS

3.3 Miscellaneous Access Services

3.3.1 Presubscription

- A) Presubscription is an arrangement whereby an end user may select and designate to the Company an Interexchange Carrier (IC) to access, without an access code, for completing interstate interLATA calls. This IC is referred to as the end user's Primary Interexchange Carrier (PIC). The end user may select any IC that orders originating Feature Group D Switched Access Service at the end office that serves the end user. After the end user's initial selection of a predesignated IC, for any additional change in selection, a non-recurring charge, as set forth in Section 5.3.1 following applies.
- B) New end users who are served by end offices equipped with Feature Group D, will be asked to presubscribe to an IC at the time they place an order with the Company for Exchange Access Service. They may select either of the following options. There will be no additional charge for this initial selection
- Designate an IC as a PIC and dial 101XXXX to reach other ICs.
 - Designate that they do not want to be presubscribed to any IC and choose to dial 101XXXX for all calls to all ICs.

Subsequent to the installation of Exchange Access Service, and after the end user's initial selection of a PIC, for any additional change in selection, a nonrecurring charge as set forth in Section 5.2.1 following applies. This charge is billed to the end user which is the subscriber to the Exchange Access Service and applies only for selection of an IC which provides Interstate InterLATA service.

SERVICE AND RATE DESCRIPTIONS

3.3 Miscellaneous Access Services (cont'd)

3.3.2 End User Access Service

The Company will provide End User Access Service (End User Access) to End Users who obtain local exchange service from the Company under its local general services tariff.

A) General Description

End User Access provides for the use of an End User Common Line (EUCL). End User Access Service consists of Subscriber Line Charge (SLC), Access Recovery Charge (ARC), End User Port Charges (EUPC) and Federal Universal Service Charges (FUSC). End Users who obtain End User Access Service are subject to the SLC, ARC, EUPC, and FUSC regulations.

(C)(N)
| (N)
(C)(N)

B) Limitations

- 1) A telephone number is not provided with End User Access.
- 2) Detail billing is not provided with End User Access.
- 3) Directory listings are not included with End User Access.
- 4) Intercept arrangements are not included with End User Access.

C) Undertaking of the Company

The Company will provide use of End User Access as follows at Subscriber Line Charge (SLC), Access Recovery Charge (ARC), End User Port Charges (EUPC), and Federal Universal Service Charge (FUSC) rates and charges as set forth in 5.3.2 following.

(N)

- 1) Use of an SLC or ARC by an End User in connection with interstate Access Services provided under this tariff. Such use will be provided when the End User obtains local exchange service.

(C)(N)

SERVICE AND RATE DESCRIPTIONS

3.3 Miscellaneous Access Services (cont'd)

3.3.2 End User Access Service

C) Undertaking of the Company (cont'd)

2) The Company will be responsible for contacts and arrangements with customers for the billing of the SLC, ARC, EUPC, and FUSC.

(N)

D) Obligations of the Customer

When the end user is provided with a local exchange service, which is not identified as Centrex, Business, or Residence service, it shall provide the Company requested information necessary for the Company to determine the appropriate charges.

E) Payment Arrangements and Credit Allowances

1) Minimum Payment

The minimum period for which End User Access is provided to an end user and for which charges are applicable is the same as that in the local general services tariffs for the associated local telephone exchange service.

(D)

2) Cancellation of Application

End User Access is cancelled when the order for the associated local exchange service is cancelled. No cancellation charges apply.

SERVICE AND RATE DESCRIPTIONS

3.3 Miscellaneous Access Services (cont'd)

3.3.2 End User Access Service (cont'd.)

E) Payment Arrangements and Credit Allowances (cont'd)

3) Changes to Orders

When changes are made to orders for the local exchange service associated with End User Access, any necessary changes will be made for End User Access. No charges will apply.

4) Allowance for Interruptions

When there is an interruption to an SLC or ARC, requested End User Access credit allowances for interruptions will be provided.

(C)(N)

5) Temporary Suspension of Service

When an End User temporarily suspends its Local Exchange Service which is associated with EUCL, the SLC and ARC credit allowance is the same as that for the associated Local Exchange Service as set forth in the local general services tariffs.

(N)

F) Rate Regulations

1) SLC and ARC per month charges will be billed to the end user of the association Local Exchange Service.

(C)(N)

2) The SLC and ARC charge for each multiparty subscriber shall be assessed as if the subscriber had subscribed to single party service.

(C)(N)

SERVICE AND RATE DESCRIPTIONS

3.3 Miscellaneous Access Services (cont'd)

3.3.2 End User Access Service (cont'd.)

F) Rate Regulations (cont'd.)

3) Business Services

Single Line Service

When an end user is provided a single local business exchange service in a state, multi line and centrex services included, and when the local business exchange service is provided under the general or local exchange or centrex service tariffs, the SLC and ARC Single Line Business – Individual line or trunk rate service in Section 5.3.2 following, applies to each such business individual line or trunk. In the case of multiparty service each party is deemed to be a user of a SLC and ARC.

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(C)
(N)

Multiline Service

When an end user is provided more than one local business exchange service in a state by the Company, multiparty and centrex services included, and when the local exchange service is provided under the general and/or local exchange tariffs, the SLC and ARC Multiline Business – Individual line or trunk rate as set forth in 5.3.2 following applies to each such Multiline Business individual line or trunk. In the case of Multiparty service each party is deemed to be a user of a SLC and ARC.

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(C)
(C)
(N)

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SERVICE AND RATE DESCRIPTIONS

3.3 Miscellaneous Access Services (cont'd)

3.3.2 End User Access Service (cont'd)

F) Rate Regulations (cont'd)

3) Business Services (cont'd)

Centrex Central Office Services

Centrex service provided to a college or university or school may service both the college, university or school offices and the student or faculty dormitory (residential) quarters. When provided to residential quarters, the residential portion of the service is commonly known as dormitory service. Residential charges will apply to lines to the student or faculty dormitory (residential) quarters as set forth in Section 5.3.2(A) following. Business charges for lines to the university, college or school offices will apply as set forth in 5.3.2(A) following. Charges shall be based on the number of residence and business lines reported to the company by the end user.

4) Residence Service

Single Line and Multiline Service

When an end user is provided local residence exchange service(s) in a state, multiparty and centrex service are included, and when the local residence exchange or centrex service is provided under the general and/or local exchange tariffs, the SLC and ARC Residence —Individual line or trunk rate as set forth in Section 5.3.2(A) following, applies to each such local residence exchange trunk. In the case of multiparty service, each party is deemed to be a user of a SLC and ARC.

(C)(N)

(C)(N)

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By: Mr. Leonard Beurer, Vice President Regulatory and Carrier Relations
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SERVICE AND RATE DESCRIPTIONS

3.3 Miscellaneous Access Services (cont'd)

3.3.2 End User Access Service (cont'd)

F) Rate Regulations (cont'd)

5) Rate Regulations for End User Port Charge

Certain local exchange service provided under the general and/or local exchange service tariffs are subject to End User Port Charges as specified in 5.3.2(B) following. These services include:

- Integrated Services Digital Network (ISDN) – Basic (BRI)
- Integrated Services Digital Network (ISDN) – Primary (PRI)
- Direct Inward Dialing (DID)

6) Federal Universal Service Charge (FUSC)

The FUSC recovers the Company's contribution to various federal universal service funds. The Company will apply a surcharge factor each month to the billed charges for interstate access services provided to end users from this tariff.

MISCELLANEOUS SERVICES

4.1 General

The Company will provide the following services:

- Automatic Number Identification (ANI)
- Billing Name and Address (BNA)
- Service Provider Number Portability

4.2 Automatic Number Identification

Automatic Number Identification (ANI) provides the automatic transmission of a seven or ten digit number and information digits to the customer's premise for calls originating in the LATA, to identify the calling telephone number. The ANI feature is an end office software function which is associated on a call-by-call basis with (1) all individual transmission paths in a trunk group routed directly between an end office and a customer's premise or, where technically feasible, with (2) all individual transmission paths in a trunk group between an end office and an access tandem, and a trunk group between an access tandem and a customer's premise. Charges for this service appear at Section 5.1.4.A.3.

MISCELLANEOUS SERVICES

4.3 Billing Name and Address Service

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 telephone communications service 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 is provided on both a manual and mechanized basis. On a manual basis, the information will be provided by mail or facsimile, as appropriate. On a mechanized basis, where available, the information will be provided by tape or electronic data transmission.

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BNA information is furnished for sent-paid, collect, bill to third number, 700 and 900 service messages and messages charged to a calling card that are resident in the Company's data base. In addition, BNA information for messages originated from data terminal numbers (DTNs) of data communications services is furnished on a manual basis only.

4.3.1 Undertaking of The Company

- A) A request for information on over 100 and up to 500 telephone numbers should be mailed to the Company. The Company will provide the response by first class U.S. Mail within ten (10) business days.

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MISCELLANEOUS SERVICES

4.3 Billing Name and Address Service (cont'd)

4.3.1 Undertaking of The Company (cont'd)

- B) The Company will specify the format in which requests and tapes are to be submitted.
- C) The BNA information will be provided for the calling number furnished to the extent a billing name and address exists in the Company Customer Information Database, 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.
- D) 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.

MISCELLANEOUS SERVICES

4.3 Billing Name and Address Service (cont'd.)

4.3.2 Obligations of the Customer

- A) With each order for BNA Service, the Customer shall identify the authorized individual and address to receive the BNA information.
- B) A customer which orders BNA Service on a mechanized basis and which intends to submit tapes of record messages for processing must provide the Company with an acceptable test tape or transmission which includes all call types for which BNA information may be requested.
- C) 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 that 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.
- D) 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 BNA Service.

MISCELLANEOUS SERVICES

4.3 Billing Name and Address Service (cont'd.)

4.3.2 Obligations of the Customer (cont'd.)

- E) When the Customer orders BNA Service for both interstate and intrastate messages, the projected percentage of interstate use must be provided in a whole number to the Company.

This whole number percentage will be used by the Company to apportion the recurring and nonrecurring charges between interstate and intrastate in those circumstances where the recorded message detail is not sufficient to permit the Company to determine the appropriate jurisdiction. This percentage will remain in effect until a revised report is received as set forth following.

Effective on the first of January, April, July and October of each year the Customer may update the jurisdictional report. The Customer shall forward to the Company, to be received no later than 20 calendar days after the first of each such month, a revised report showing the interstate percentage of use for the past three months ending the last day of December, March, June and September, respectively. Except where jurisdiction can be determined from the recorded message detail, the revised report will serve as the basis for the next three months billing and will be effective on the bill date in the following month (e.g., February, May, August and November). No prorating or back billing will be done based on the report. If the Customer does not supply the report, the Company will assume the percentages to be the same as those provided in the last quarterly report. For those cases in which a quarterly report has never been received from the Customer, the Company will assume the percentages to be the same as those provided in the order for service.

MISCELLANEOUS SERVICES

4.3 Billing Name and Address Service (cont'd.)

4.3.2 Obligations of the Customer (cont'd.)

- F) The Company shall use reasonable efforts to provide accurate and complete lists. The company makes no warranties, expressed or implied, as to the accuracy or completeness of these lists.

4.3.3 Rate Regulations

- A) For each order for BNA information received by the Company, a BNA order charge applies as set forth in Section 5.4.1 following.
- B) A charge applies for each request for BNA information for a telephone number or DTN number on a manual basis. A charge applies for each message processed to supply BNA information on a mechanized basis.
- C) If the Customer requests BNA information on a mechanized basis, and the Company is able to provide magnetic tape, a charge per tape also applies.

The Company will keep a count of the requests and of the messages processed. The Company will bill the Customer in accordance with these counts whether or not the Company was able to provide BNA information for all requests and messages.

MISCELLANEOUS SERVICES

4.3 Billing Name and Address Service (cont'd.)

4.3.3 Rate Regulations (cont'd.)

C) (cont'd.)

Where the recorded message detail is sufficient to determine a message is an interstate message, the rates set forth in 5.3.1 following apply to each such message.

Usage for which the recorded message detail is insufficient to determine jurisdiction will be prorated by the Company between interstate and intrastate.

The percentages provided in the reports as set forth in 4.3.2(E) preceding will serve as the basis for prorating the charges.

D) When a customer cancels an order for BNA Service after the order date, the BNA order charge applies.

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MISCELLANEOUS SERVICES

4.4 Service Provider Number Portability

SPNP allows, where facilities permit: (1) a local exchange telephone service customer to maintain the same Directory Number (DN) when changing from one telecommunications service provider to another while remaining at the same location; and (2) callers to complete calls to numbers that have been ported.

4.4.1 SPNP and SPNP Database Service (SPNPDS) Service Description

SPNP is an advanced intelligent network capability which utilizes the common channel signaling network to query a database to secure network routing instructions before completion of a call. This database contains the Location Routing Number (LRN) that identifies the switch of the Local Service Provider (LSP) that serves a customer with a ported DN. The LRN is used to direct the call to the correct network switching element for completion to the end user customer. Where more than one network is involved in completing the call, the network prior to the termination (i.e., the N-1 network) is normally responsible for querying a SPNP database to secure the LRN which is then used in routing the call.

Where the N-1 Carrier does not perform a database query, and forwards a call to a switch in the Telephone company's network for a NXX designated as a number portable code in the Local Exchange Routing Guide, the Telephone Company will perform a query for the N-1 Carrier and bill that N-1 carrier a SPNP query charge.

When the Telephone Company is the first point of switching for terminating traffic to another local exchange carrier (e.g., a Telephone Company tandem switch), the Telephone Company may perform the query on behalf of the N-1 carrier and bill the N-1 carrier a SPNP Query charge.

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MISCELLANEOUS SERVICES

4.4 Service Provider Number Portability (cont'd)

4.4.1 SPNP and SPNP Database Service (SPNPDS) Service Description (cont'd)

Where the N-1 Network queries the Telephone Company SPNP database, the Telephone Company will bill that N-1 Carrier a SPNP database query charge.

SPNP Database Service procedures will be applied uniformly to all users of the Telephone Company's SPNP Database Network. The Telephone Company SPNP Database will receive and respond to all queries, including the Telephone Company's queries as defined in the Technical Reference filed with this service.

4.4.2 Service Provider Number Portability Database Service (SPNPDS) Service Application

The service arrangements of SPNPDS available through the Telephone Company's network are:

- a) SPNP Query
Tandem
End Office
- b) SPNP Database Query

Following are detailed descriptions of the available service applications.

A) SPNP Query

When the Telephone Company performs a query on behalf of the N-1 carrier, the Telephone Company's end office or access tandem switch will suspend call processing, formulate and launch a query via the common channel signaling network to a SPNP database to obtain information necessary to route calls to numbers in portable NXX codes. When the necessary routing information has been returned from the SPNP database to the switch originating the query, call processing is

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MISCELLANEOUS SERVICES

4.4 Service Provider Number Portability (cont'd)

4.4.2 Service Provider Number Portability Database Service (SPNPDS) Service Application (cont'd)

A) SPNP Query (cont'd)

resumed and the call is routed to the correct network switching element for completion to the called party.

When a Telephone Company tandem switch performs the query on behalf of the N-1 carrier, an SPNP Query-Tandem charge is applied whenever the call is to an NXX from which a DN has been ported.

When a Telephone Company end office switch performs the query on behalf of the N-1 carrier, an PNP Query-End Office charge will apply when the called DN has ported out of the Telephone Company switch.

B) SPNP Database Query

N-1 carriers may query the Telephone company's SPNP database interconnecting with the Telephone company's common channel signaling network. This is an optional service.

N-1 carriers may arrange in advance to query, via the common channel signaling network, the Telephone company's SPNP database with contains information necessary to route calls to number portable NXX codes. When the necessary routing information has been returned from the SPNP database to the switch originating the query, call processing is resumed by the originating N-1 carrier, and the call is routed to the correct network switching element for completion to the called party. The N-1 carrier will be assessed a SPNP Database Query Charge on all queries to the SPNP Database.

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MISCELLANEOUS SERVICES

4.4 Service Provider Number Portability (cont'd)

4.4.3 SPNPDS Service Provisioning

A) Network Management

The Telephone Company will administer its network to ensure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services.

The Telephone company maintains the right to apply automated or manual protective controls which would generally be applied as a result of occurrences such as failure or overload of Telephone company facilities, customer facilities, or other networks, natural disasters, mass calling, or national security demands.

4.4.4 Rate Regulations

The rates and charges associated with SPNPDS which are "query" based will be billed monthly, based on recorded usage. For billing purposes, each month is considered to have thirty (30) days.

A) Rate Elements

The following identifies the SPNP rate elements.

- 1) SPNP Query
Tandem
End Office
- 2) SPNP Database Query

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MISCELLANEOUS SERVICES

4.4 Service Provider Number Portability (cont'd.)

4.4.4 Rate Regulations (cont'd.)

A) Rate Elements (cont'd.)

1) SPNP Query

The SPNP Query rate element provides for the identification of the LRN information associated with the directory number including transport of the query to and from the database. This charge is assessed at either a Tandem or End Office rate depending on where the query was launched.

- a) SPNP Query – Tandem Query Charges are assessed to each non-queried call delivered at the Telephone Company Tandem to numbers in NXXs from which a DN has ported. This charge is also assessed when the N-1 carrier delivers calls to other LECs through a Telephone Company Tandem.
- b) SPNP Query – End Office Query Charges are assessed to each non-queried call to a Directory Number that has been ported out of a Telephone company end office switch, and the end office switch performs the query.
- c) The SPNP Database Query rate element provides for the identification of the LRN associated with the directory number being queried including transport from the Telephone Company STP to the SPNP database. This charge will be assessed to each query made to the SPNP Database.

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MISCELLANEOUS SERVICES

4.5 Additional Engineering, Additional Labor and Miscellaneous Services

In this section, normally scheduled working hours are the Telephone Company's normal business hours, 8 AM to 5 PM, Monday through Friday. Any work occurring outside of these hours, Monday through Friday, will be charged at "Overtime Rates." Any work occurring on Saturday, Sunday, or Holidays will be charged at "Premium Rates."

4.5.1 Additional Engineering

Additional Engineering will be provided by the Telephone Company at the request of the customer only when:

- A) A customer requests additional technical information after the Telephone Company has already provided the technical information normally included on the Design Layout Report (DLR) as set forth in 3.2.1 preceding.
- B) Additional engineering time is incurred by the Telephone Company to engineer a customer's request for a customized service as set forth in 3.2.2 preceding.

The Telephone Company will notify the customer that additional engineering charges, as set forth in 5.4.3 following, will apply before any additional engineering is undertaken.

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MISCELLANEOUS SERVICES

4.5 Additional Engineering, Additional Labor and Miscellaneous Services (cont'd.)

4.5.2 Additional Labor

Additional labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in 4.5.2.1 through 4.5.2.5 following. The Telephone Company will notify the customer that additional labor charges as set forth in 5.4.4 following will apply before any additional labor is undertaken.

For part-time Video Services, additional labor may also include that labor, requested by one or more customers and agreed upon by the Telephone Company, for a Telephone Company technician to oversee the operation of part-time Video Service during a specific event. The Telephone Company will notify the customer(s) that additional labor set forth in 4.5.2 (c) following for Stand By Labor will apply per customer. When a single Telephone Company technician oversees the operation of part-time Video Service(s) for more than one customer, the total charge to perform Stand By Labor will be divided equally between the customers involved.

4.5.2.1 Overtime Installation

Overtime installation is that Telephone Company installation effort outside of normally scheduled working hours.

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D&E Systems, Inc.
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MISCELLANEOUS SERVICES

4.5 Additional Engineering, Additional Labor and Miscellaneous Services (cont'd.)

4.5.2 Additional Labor (cont'd.)

4.5.2.2 Overtime Repair

Overtime repair is that Telephone Company maintenance effort performed outside of normally scheduled working hours.

Charges will not apply when the trouble is determined to be in the Telephone Company facilities or equipment, or no trouble is found.

When a dispatch is made to the customer's premises and trouble is identified which is not the Telephone Company's responsibility, only the charges specified in 5.4.4 following will apply.

4.5.2.3 Stand By

Stand By includes all time in excess of one-half (1/2) hour during which Telephone Company personnel stand by to make cooperative tests with a customer to verify facility repair on a given service. For part time Video Services, Stand By Labor also includes requests by the customer for a Telephone Company technician to oversee the operation of part-time Video Service during a specific event. For part time Video Service, the request for Stand By Labor may involve one or more customers for a single event. The charge for Stand By Labor to each customer shall be as specified in 4.5.2 preceding.

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MISCELLANEOUS SERVICES

4.5 Additional Engineering, Additional Labor and Miscellaneous Services (cont'd.)

4.5.2 Additional Labor (cont'd.)

4.5.2.4 Testing and Maintenance with Other Telephone Companies

Additional testing, maintenance or repair of facilities which connect to facilities of other telephone companies, which is in addition to normal effort required to test, maintain or repair facilities provided solely by the Telephone Company.

4.5.2.5 Other Labor

Other labor is that additional labor not included in 4.5.2.1 through 4.5.2.4 preceding and labor incurred to accommodate a specific customer request that involves only labor which is not covered by any other section of this tariff.

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MISCELLANEOUS SERVICES

4.5 Additional Engineering, Additional Labor and Miscellaneous Services (cont'd)

4.5.3 Miscellaneous Services (cont'd)

4.5.3.2 Provision of Access Service Billing Information

- A) The customer, upon request, has the option of receiving its primary monthly access bill and Customer Service Record (CSR) in one of the following standard medium, at no charge:
 - 1. Paper
 - a. Detailed paper bill
 - 2. Bill Data Record
 - a. Magnetic Tape
 - b. Electronic Data Transmission
 - c. CD ROM
- B) In addition to the customer's primary monthly access bill, the customer will be provided, upon request, an abbreviated paper bill, at no additional charge.
- C) At the option of the customer, and for an additional charge as set forth in 5.4.5 following:
 - 1. Additional hard copies of the monthly access bill or service and features record may be provided on paper.
 - 2. Additional Bill Data Record information may be provided on magnetic tape.
 - 3. Additional Bill Data Record information may be transmitted to the customer premises by electronic data transmission.
 - 4. Additional Bill Data Record information may be provided on CD Rom.

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MISCELLANEOUS SERVICES

4.5 Additional Engineering, Additional Labor and Miscellaneous Services (cont'd)

4.5.3 Miscellaneous Services (cont'd)

4.5.3.2 Provision of Access Service Billing Information (cont'd)

- D) The rules and regulations concerning payment arrangements and credit allowances described in Section 2.6 preceding applies to all primary monthly access bills, regardless of the chosen bill medium.
- E) Upon acceptance by the Telephone Company of a request for a change in the existing medium of the primary monthly access bill data (e.g., paper to magnetic tape, magnetic tape to paper, or any of the previous two to electronic data transmission or CD Rom), and for an additional electronic data transmission, the Telephone Company, in cooperation with the customer, will determine the interval required to implement the transmission of such material on an individual request basis.

The customer requesting electronic data transmission shall be the responsible for providing a data transmission system compatible with the Telephone Company transmission facilities.

- F) Regulations regarding electronic data transmission failure will apply as follows:
 - 1. In the event of transmission failure resulting from Telephone Company error, the Telephone Company will re-send a bill by electronic data transmission at no charge to the customer. The bill payment due date will be negotiated between Telephone Company and customer for this bill.

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MISCELLANEOUS SERVICES

4.5 Additional Engineering, Additional Labor and Miscellaneous Services (cont'd)

4.5.3 Miscellaneous Services (cont'd)

4.5.3.2 Provision of Access Service Billing Information (cont'd)

- F) Regulations regarding electronic data transmission failure will apply as follows: (cont'd)
2. In the event of transmission failure resulting from failure of the customer's transmission line or other customer error, the Telephone Company will re-send a bill by electronic data transmission at the same rates and charges as a request for an additional copy of the access bill as set forth in 5.4.5 following.
 3. In the event that there are problems or disputes regarding receipt of the data transmission other than those outlined in (1) and (2) preceding, the Telephone Company will forward a duplicate access bill on magnetic tape via overnight delivery. After investigation, if (2) preceding applies, the same rates and charges as a request for additional copy of the access bill will apply as set forth in 5.4.5 following.
- G) This service may not be available for non-access rates and charges.

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MISCELLANEOUS SERVICES

4.5 Additional Engineering, Additional Labor and Miscellaneous Services (cont'd)

4.5.3 Miscellaneous Services (cont'd)

4.5.3.3 ISP Traffic Origination Service

A) General

ISP Traffic Origination Service applies to all telecommunications delivered by the Company to another telecommunications service provider (the “interconnecting carrier”) for which the interconnecting carrier imposes on the Company an interstate charge pursuant to federal tariff for delivery of telecommunications to an Internet Service Provider (the “delivery charge”). ISP Traffic Origination Service reimburses the Company for the interstate cost of handing off traffic that is bound for the Internet to the interconnecting carrier and is not intended to cover the cost of any subscriber or common line facilities.

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RATES

5.1 Switched Access Rates

5.1.1 Service Orders

A) Service Implementation

- 1) Installation Charge
- Per 24 Trunks or Out of Band
Signaling Connection

Nonrecurring
Charge Per
Order

\$220.00

- 2) Engineering Charge

- A. Additional Engineering
Periods
Basic Time, regularly
scheduled working hours,
per engineer

Each Half
Hour or
Fraction
Thereof

\$150.00

(Z)

- B. Overtime, outside
of regularly scheduled
working hours,
per engineer

\$200.00

Nonrecurring
Charge Per
Order

- B) Access Order Charge
- C) Service Date Change
- D) Design Change
- E) Expedited Order

\$136.00

\$ 34.00

\$ 34.00

\$115.00

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RATES

5.1 Switched Access Rates (cont'd)

5.1.2 Carrier Common Line

| | |
|---------------------------------------|------------|
| A) Rate per Originating Access Minute | \$0.000000 |
| B) Rate per Terminating Access Minute | \$0.000000 |

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RATES

5.1 Switched Access Rates (cont'd.)

5.1.3 Local Transport

A) Common Channel Signaling Access Service

Rate

- | | | |
|----|---|-----------|
| 1) | STP Access Mileage - Per Month, per mile | \$ 3.50 |
| 2) | STP Port Termination - Per Month, per port | \$ 900.00 |

B) Common Transport Facility*

- Per Access Minute Per Mile

Verizon PA and Verizon North
CenturyLink

Originating

Terminating

| | |
|---------------|----------------|
| \$0.000002(R) | \$0.000002 (R) |
| \$0.000022 | \$0.000022 |

(C)

|

(C)

(N)

C) Common Transport Termination*

- Per Access Minute

Verizon PA and Verizon North
CenturyLink

| | |
|------------|------------|
| \$0.000000 | \$0.000000 |
| \$0.000449 | \$0.000449 |

(C)

|

(C)

(N)

D) Reserved for future use.

E) Reserved for future use.

*Non-affiliated (3rd Party) rate.

(N)

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RATES

5.1 Switched Access Rates (cont'd.)

5.1.3 Local Transport (cont'd.)

F) Transport Interconnection Charge

Per Access Minute
.000000

G) Nonchargeable Optional Features

- 1) Supervisory Signaling, per Transmission Path
 - DX Supervisory Signaling arrangement
 - SF Supervisory Signaling arrangement
 - E&M Type I Supervisory Signaling arrangement
 - E&M Type II Supervisory Signaling arrangement
 - E&M Type III Supervisory Signaling arrangement (available with FGD)
- 2) Customer specification of the received transmission level at the first point of switching within a range acceptable to the Company (available with FGB), per Transmission Path
- 3) Customer specification of Local Transport Termination four-wire termination in lieu of two-wire termination (available with FGB), per Transmission Path
- 4) Signaling System 7, per signaling connection arranged
- 5) 64 kbps Clear Channel Capability, per Transmission Path

H) Multiplexing

| | |
|--------------|----------|
| DS1 to Voice | \$210.07 |
| DS3 to DS1 | \$766.07 |

RATES

5.1 Switched Access Rates (cont'd.)

5.1.4 End Office

A) Local Switching

- 1) Feature Group B and Feature Group D
Originating traffic, per Access Minute \$0.0055

2) Common Switching Non-Chargeable Optional Features

Up to seven Digit Outpulsing of Access Digits
to Customer (available with FGB), per
Transmission Path Group

Service Class Routing (available with FGD), per
Transmission Path Group

Alternate Traffic Routing (available with FGD),
per Transmission Path Group

International Carrier Option (available with
FGD), per End Office and Access Tandem

SS7 Signaling Option
-Calling Party Number (available with FGD)

-Carrier Selection Parameter (available with FGD)

- 3) Composite Terminating End Office Charge/ Local Switching (C)
per Terminating Access Minute \$0.000000 (R)

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RATES

5.1 Switched Access Rates (cont'd.)

5.1.4 End Office (cont'd.)

A) Local Switching (cont'd.)

3) Common Switching Chargeable Optional Features

Automatic Number Identification (available with
FGB and FGD), per Transmission Path Group,
per call

\$ 0.0005

5.1.5 Toll Free 800 Series Data Base Access Service

1) Entrance Facilities

2) Tandem-Switched Transport*

*Non-affiliated (3rd Party) rate.

Certain material previously found on this page moved to page 7.1.

5.1.6 Switched Transport (cont'd)

(M)

Per Month

| | <u>Fixed</u> | <u>Per Mile</u> |
|-------------------|--------------|-----------------|
| Voice Grade..... | \$20.44 | \$ 4.00 |
| DS1 | \$70.00 | \$20.45 |
| DS3 | | |
| -Electrical | \$825.00 | \$161.25 |
| -Optical..... | \$825.00 | \$161.25 |

(M)

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RATES

5.2 Special Access Rates

5.2.1 Voice Grade Service

| | <u>Monthly</u> | <u>Nonrecurring</u> |
|--|----------------|---------------------|
| A) Channel Termination | | |
| - Per point of Termination | | |
| - Two-Wire | \$37.83 | \$161.00 |
| - Four-Wire | \$60.53 | \$161.00 |
| B) Channel Mileage Facility, per mile | \$2.70 | |
| C) Channel Mileage Termination, per termination | \$27.08 | |
| D) Optional Features and Functions | | |
| 1) Bridging | | |
| (a) Voice Bridging | | |
| Two-Wire/Four/Wire | | |
| - Per Port | | |
| - Two-Wire | \$6.50 | N/A |
| - Four Wire | \$6.50 | N/A |

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RATES

5.2 Special Access Rates (cont'd.)

5.2.1 Voice Grade Service (cont'd.)

D) Optional Features and Functions (cont'd.)

| | | <u>Monthly</u> | <u>Nonrecurring</u> |
|----|-------------------------------------|----------------|---------------------|
| 1) | Bridging (cont'd.) | | |
| | (b) Data Bridging | | |
| | Two-Wire/Four-Wire | | |
| | - Per Port | | |
| | - Two-Wire | \$6.50 | N/A |
| | - Four Wire | \$6.50 | N/A |
| | (c) Telephoto Bridging | | |
| | Two-Wire/Four/Wire | | |
| | - Per Port | | |
| | - Two-Wire | \$6.50 | N/A |
| | - Four Wire | \$6.50 | N/A |
| 2) | Conditioning | | |
| | - Per point of termination | | |
| | C-Type | \$7.20 | N/A |
| | Sealing Current | N/A | N/A |
| 3) | Improved Return Loss for effective | | |
| | Two-Wire or Four-Wire Transmission | | |
| | - Per point of termination | | |
| | - Two-Wire | \$12.80 | N/A |
| | - Four-Wire | \$12.80 | N/A |
| 4) | Customer Specified Receive Level | | |
| | - Per Two-Wire point of termination | | |
| | | \$8.80 | N/A |

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RATES

5.2 Special Access Rates (cont'd.)

5.2.1 Voice Grade Service (cont'd.)

| D) Optional Features and Functions (cont'd.) | | <u>Monthly</u> | <u>Nonrecurring</u> |
|--|--|----------------|---------------------|
| 5) | Data Capability - Per point of termination | \$4.95 | N/A |
| 6) | Telephoto Capability - Per point of termination | \$9.02 | N/A |
| 7) | Signaling Capability - Per point of termination | \$12.95 | N/A |
| 8) | Selective Signaling Arrangement - Per arrangement | \$6.50 | N/A |

RATES

5.2 Special Access Rates (cont'd.)

5.2.2 Digital Data Service

| | <u>Monthly</u> | <u>Nonrecurring</u> |
|----------------------------|----------------|---------------------|
| A) Channel Termination | | |
| - Per point of termination | | |
| - 2.4 kbps | \$69.82 | \$177.00 |
| - 4.8 kbps | \$69.82 | \$177.00 |
| - 9.6 kbps | \$69.82 | \$177.00 |
| - 19.2 kbps | \$69.82 | \$177.00 |
| - 56.0 kbps | \$69.82 | \$177.00 |
| - 64.0 kbps | \$69.82 | \$177.00 |

B) Channel Mileage Facility

| | <u>Monthly Rate per mile</u> |
|-------------|------------------------------|
| - 2.4 kbps | \$2.56 |
| - 4.8 kbps | \$2.56 |
| - 9.6 kbps | \$2.56 |
| - 19.2 kbps | \$2.56 |
| - 56.0 kbps | \$3.96 |
| - 64.0 kbps | \$3.96 |

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RATES

5.2 Special Access Rates (cont'd.)

5.2.2 Digital Data Service (cont'd.)

| | <u>Monthly</u> | <u>Nonrecurring</u> |
|------------------------------------|----------------|---------------------|
| C) Channel Mileage Termination | | |
| - Per Termination | | |
| - 2.4 kbps | \$25.72 | |
| - 4.8 kbps | \$25.72 | |
| - 9.6 kbps | \$25.72 | |
| - 19.2 kbps | \$25.72 | |
| - 56.0 kbps | \$39.79 | |
| - 64.0 kbps | \$39.79 | |
| D) Optional Features and Functions | | |
| 1) Bridging | | |
| - Per Port | \$7.85 | N/A |

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RATES

5.2 Special Access Rates (cont'd.)

5.2.3 High Capacity Service

| | <u>Monthly</u> | <u>Nonrecurring</u> |
|--------------------------------------|----------------|---------------------|
| A) Channel Termination | | |
| - Per point of termination | | |
| - 1.544 Mbps | \$ 191.82 | \$251.00 |
| - 44.736 Mbps, First DS3 | \$2,225.14 | \$251.00 |
| - Additional DS3 (maximum of two) | \$1,445.46 | \$251.00 |
| B) Channel Mileage Facility | | |
| - Per Mile | | |
| - 64 kbps | \$3.96 | |
| - 1.544 mbps | \$20.76 | |
| - 3.152 mbps | ICB | |
| - 6,312 mbps | ICB | |
| - 44.736 mbps | \$142.94 | |
| - 274.176 mbps | ICB | |
| C) Channel Mileage Termination | | |
| - Per Termination | | |
| - 64 kbps | \$39.79 | |
| - 1.544 mbps | \$102.39 | |
| - 3.152 mbps | ICB | |
| - 6,312 mbps | ICB | |
| - 44.736 mbps | \$570.22 | |
| - 274.176 mbps | ICB | |

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RATES

5.2 Special Access Rates (cont'd.)

5.2.3 High Capacity Service (cont'd.)

Monthly

D) Optional Features and Functions

| | | |
|----|-------------------------------------|----------|
| 1) | Multiplexing | |
| | - DS3 to DS1, per arrangement | \$474.31 |
| | - DS1 to Voice * | \$188.12 |
| | - DS1 to DS0 | \$183.12 |
| | - DS0 to Sub rates, per arrangement | |
| | - Up to 20 2.4 kbps | ICB |
| | - Up to 10 4.8 kbps | ICB |
| | - Up to 5 9.6 kbps | ICB |
| 2) | Automatic Loop Transfer | |
| | - Per arrangement + | \$158.00 |

* A channel of the DS1 to the Hub can be used for a Digital Data Service

+ An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer's premises.

RATES

5.2 Special Access Rates (cont'd.)

5.2.4 Synchronous Optical Channel Service

| | | <u>Monthly</u> | <u>Nonrecurring</u> |
|----|---------------------------------|----------------|---------------------|
| A) | Channel Termination | | |
| | -Per point of termination | | |
| | - 155.52 Mbps | \$4,278.32 | \$614.00 |
| B) | Channel Mileage Facility | | |
| | - Per mile | \$306.94 | |
| C) | Channel Mileage Termination | \$682.79 | |
| D) | Optional Features and Functions | | |
| | Customer Node | | |
| | - Per Node | | |
| | - OC3/OC3c 155.52 Mbps | \$495.00 | \$197.00 |
| | Customer Premises Port | | |
| | - Per Port | | |
| | - OC3/OC3c 155.52 Mbps | \$150.00 | |

RATES

5.2 Special Access Rates (cont'd.)

5.2.5 Synchronous Optical Channel Service (cont'd)

D) Optional Features and Functions (cont'd)

| | <u>Monthly</u> | <u>Nonrecurring</u> |
|-----------------------|----------------|---------------------|
| Add/Drop Multiplexing | | |
| Central Office Port | | |
| Per Port | | |
| -OC3/OC3c 155.52 Mbps | \$150.00 | |

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RATES

5.2 Special Access Rates (cont'd.)

5.2.5 Special Access Term Discount Plan

| | <u>Monthly</u> | <u>Nonrecurring</u> |
|--|----------------|---------------------|
| A) Channel Termination | | |
| 1) 1.544 Mbps, per point of termination | | |
| (a) Plan A (12-23 Months) | \$ 171.82 | \$251.00 |
| (b) Plan B (24-35 Months) | \$ 165.82 | \$251.00 |
| (c) Plan C (36-59 Months) | \$ 155.82 | \$251.00 |
| (d) Plan D (60-84 Months) | \$ 144.82 | \$251.00 |
| 2) 44.736 Mbps, per point of termination | | |
| (a) Plan A (12-23 Months) | | |
| - First DS3 | \$2,015.19 | \$251.00 |
| - Additional DS3 (maximum of two) | \$1,202.46 | \$251.00 |
| (b) Plan B (24-35 Months) | | |
| - First DS3 | \$1,980.19 | \$251.00 |
| - Additional DS3 (maximum of two) | \$1,185.46 | \$251.00 |
| (c) Plan C (36-59 Months) | | |
| - First DS3 | \$1,944.19 | \$251.00 |
| - Additional DS3 (maximum of two) | \$1,167.46 | \$251.00 |
| (d) Plan D (60-84 Months) | | |
| - First DS3 | \$1,908.19 | \$251.00 |
| - Additional DS3 (maximum of two) | \$1,149.00 | \$251.00 |

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RATES

5.2 Special Access Rates (cont'd.)

5.2.5 Special Access Term Discount Plan (cont'd.)

B) Channel Mileage - Monthly Rates

| | Plan A 12-23 <u>Months</u> | Plan B 24-35 <u>Months</u> | Plan C 36-59 <u>Months</u> | Plan D 60-84 <u>Months</u> |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 1) 1.544 Mbps | | | | |
| (a) Channel Mileage Termination | \$ 81.38 | \$ 77.38 | \$ 72.38 | \$ 68.38 |
| (b) Channel Mileage Facility, per mile | \$ 18.80 | \$ 17.70 | \$ 16.80 | \$ 15.80 |
| | | | | |
| 2) 44.736 Mbps | | | | |
| (a) Channel Mileage Termination | \$475.64 | \$440.64 | \$405.64 | \$385.64 |
| (b) Channel Mileage Facility, per mile | \$119.77 | \$113.77 | \$101.77 | \$ 95.77 |

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RATES

5.3 Miscellaneous Access Rates

Non-Recurring Charge

5.3.1 Presubscription

| | |
|---|--------------------|
| - change in interLATA Toll Presubscription | \$5.00 - per line |
| - unauthorized Business or Residence service change in interLATA Toll Presubscription | \$35.65 - per line |

5.3.2 End User Access Charge

A) Subscriber Line Charge

Monthly Charge

| | | |
|---------------------------------|---------|-----|
| Primary Residence | \$6.50 | (I) |
| Non-Primary Residence | \$7.00 | |
| Single Line Business Subscriber | \$6.50 | |
| Multiline Business Subscriber | \$9.20 | |
| Centrex CO and CO-like | \$9.20 | |
| ISDN-PRI | \$46.00 | |
| ISDN-BRI | \$18.18 | (I) |

B) Access Recovery Charge

Monthly Charge

| | | | |
|---------------------------------|--------|--|-----|
| Primary Residence | \$2.00 | | (N) |
| Single Line Business Subscriber | \$2.00 | | (N) |
| Multiline Business Subscriber | \$3.00 | | |

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RATES

5.3 Miscellaneous Access Rates (cont'd.)

5.3.2 End User Access Charge (cont'd.)

| | | | |
|----|-----------------------------|-----------------------|-----|
| C) | <u>End User Port Charge</u> | <u>Monthly Charge</u> | (T) |
|----|-----------------------------|-----------------------|-----|

| | |
|---|--------|
| Digital Transport Facility provided as ISDN Basic Service (BRI), each service | \$1.52 |
|---|--------|

| | |
|---|---------|
| Digital Transport Facility provided as ISDN Primary Service (PRI), each service | \$23.43 |
|---|---------|

| | |
|---|--------|
| Direct Inward Dialing (DID) Each line or trunk | \$0.70 |
|---|--------|

| | | |
|----|--|-----|
| D) | <u>Federal Universal Service Charge (FUSC)</u> | (T) |
|----|--|-----|

FUSC is applied against the end user's billed interstate access services charges as prescribed by the FCC using the current quarterly Universal Service Fund (USF) contribution factor.

5.4 Miscellaneous Rates

Non-Recurring Charge

5.4.1 BNA (Billing Name and Address)

| | |
|-------------------------------|----------|
| BNA Order Charge Per Order | \$ 50.94 |
| BNA Charge per record | \$ 0.33 |
| Magnetic Tape Charge Per Tape | \$ 29.50 |
| -Data Transmission/per record | \$0.0035 |

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RATES

5.4 Miscellaneous Rates (cont'd.)

5.4.2 Service Provider Number Portability

| | <u>Rate Per Query</u> |
|---------------------|-----------------------|
| SPNP Query | |
| -Tandem | \$.000926 |
| -End Office | \$.000926 |
| SPNP Database Query | \$.000648 |

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MISCELLANEOUS SERVICES

5.4 Miscellaneous Rates (cont'd.)

5.4.3 Charges for Additional Engineering

| Additional Engineering Periods* | | First Half Hour or Fraction Thereof | Each Additional Half Hour or Fraction Thereof |
|------------------------------------|--|---|---|
| A) | Basic Time, Normally scheduled Working hours, Per engineer | \$150.00 | \$150.00 |
| B) | Overtime, outside of normally scheduled working hours, Per engineer | \$200.00 | \$200.00 |

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MISCELLANEOUS SERVICES

5.4 Miscellaneous Rates (cont'd.)

5.4.4 Charges for Additional Labor

The charges for additional labor are as follows:

| Additional Labor Periods* | First Half Hour or Fraction Thereof | Each Additional Half Hour or Fraction Thereof |
|---|---|---|
| A) Installation or Repair | | |
| - Overtime, outside of normally scheduled working hours on a scheduled work day, per technician | \$200.00 | \$200.00 |
| - Premium Time, outside of scheduled work day, per technician | \$250.00 | \$250.00 |

* A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of two hours.

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MISCELLANEOUS SERVICES

5.4 Miscellaneous Rates (cont'd.)

5.4.4 Charges for Additional Labor (cont'd.)

The charges for additional labor are as follows:

| Additional Labor Periods* | First Half Hour or Fraction Thereof | Each Additional Half Hour or Fraction Thereof |
|---|---|---|
| B) Stand By | | |
| - Basic Time, normally scheduled working hours, per technician | None | \$60.00 |
| - Overtime, outside of normally scheduled working hours on a scheduled work day, per technician | None | \$70.00 |
| - Premium Time, outside of scheduled work day, per technician | None | \$80.00 |

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MISCELLANEOUS SERVICES

5.4 Miscellaneous Rates (cont'd.)

5.4.4 Charges for Additional Labor (cont'd.)

The charges for additional labor are as follows:

| Additional Labor Periods* | | First Half Hour or Fraction Thereof | Each Additional Half Hour or Fraction Thereof |
|------------------------------|---|---|---|
| C) | Testing and Maintenance with other telephone companies, or Other Labor | | |
| | - Basic Time, normally scheduled working hours, per technician | \$150.00 | \$150.00 |
| | - Overtime, outside of normally scheduled working hours on a scheduled work day, per technician | \$200.00 | \$200.00 |
| | - Premium Time, outside of scheduled work day, per technician | \$250.00 | \$250.00 |

* A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of two hours.

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MISCELLANEOUS SERVICES

5.4 Miscellaneous Rates (cont'd.)

5.4.5 Provision of Access Service Billing Information Rates & Charges

A. The rates and charges for the provision of Access Service Billing Information are as follows:

| | <u>Rates</u> |
|---|---------------------|
| 1) Additional hard copies of the customer's monthly bill or service and features record on paper, per page | \$0.0599 |
| 2) Additional copies of Bill Data Record information, In magnetic tape format, per record* | \$0.0076 |
| 3) Additional Electronic Data Transmission to a customer's Premises of Bill Data Record information, per record* transmitted | \$0.0080 |
| 4) Additional copies of Bill Data Record information On CD ROM per CD | \$25.47 |

* A record is comprised on 225 bytes.

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MISCELLANEOUS SERVICES

5.4 Miscellaneous Rates (cont'd.)

5.4.6 ISP Traffic Origination Service Rates

- A) For each call for which the interconnecting carrier attempts to assess a delivery charge of \$0.008 per minute to the Company, the Company will assess to the interconnecting carrier an ISP Traffic Origination rate per minute which is the Interconnection Charge set forth below. For each call for which the interconnecting carrier attempts to assess a delivery charge of other than \$0.008 per minute to the Company, the company will assess to the interconnecting carrier an ISP Traffic Origination rate per minute which is the Alternative Interconnection Charge set forth below. The Alternative Interconnection Charge is the actual delivery charge, per minute, that the interconnecting carrier assesses on the Company.

The Interconnection Charge set forth following will apply to the same calls, and for the same duration, as the interconnecting carrier attempts to assess on the Company through its delivery charge.

| <u>Interconnection Charge</u> | <u>Rate</u> |
|-------------------------------|-------------|
| Charge per minute, per call | \$0.008 |

Alternative Interconnection Charge

The actual delivery charge as described above.

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