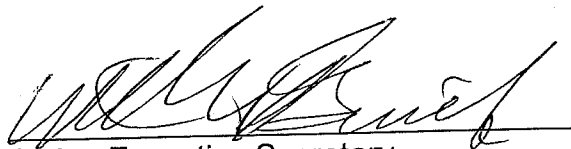


CERTIFICATION
North Dakota Public Service Commission
Administration Division
SFN 19727 (1-94)

STATE OF NORTH DAKOTA)
) **ss**
COUNTY OF BURLEIGH)

I, the undersigned, as Acting Executive Secretary of the Public Service Commission of the State of North Dakota and Custodian of the records thereof, do hereby certify that the attached is a true and correct copy of **Northwestern Bell Telephone Company access tariffs filed in Case No. I-7059**, a copy of which appears of record and is on file in the office of the Public Service Commission of the State of North Dakota.

IN WITNESS WHEREOF, I have set my hand and affixed the seal of the Public Service Commission in the city of Bismarck, North Dakota, this **23rd** day of **August**, **2005**.



Acting Executive Secretary
Public Service Commission
State of North Dakota

(S E A L)



Public Service Commission
State of North Dakota

COMMISSIONERS

Leo M. Reinbold
President
Dale V. Sandstrom
Bruce Hagen

State Capitol
Bismarck, North Dakota 58505
701-224-2400
800-932-2400
Toll Free in North Dakota

January 3, 1986

Secretary, Janet A. Elkin

Mr. Lauren Stottler
Northwestern Bell Telephone Company
105 North 5th Street
Fargo, ND 58102

Dear Mr. Stottler:

On December 31, 1985, the commission approved your filing of revised North Dakota Access Service Tariffs reflecting the requirements of the commission's order in Case Nos. 10,694 and 10,699, Case No. I-7059.

Also approved on December 31, 1985, were Case No. I-7076, filing of revised Local Exchange Tariffs increasing local rates in response to this commission's order in Case Nos. 10,694 and 10,699, subject to possible rate of return examination as ordered in Case Nos. 10,694 and 10,699; and Case No. I-7077, filing of revised Wide Area Telecommunications Service Tariffs increasing WATS rates in response to this commission's order in Case Nos. 10,694 and 10,699, subject to possible rate of return examination as ordered in Case Nos. 10,694 and 10,699.

Sincerely,

Janet A. Elkin
Secretary

sdh

Enclosures

M O T I O N

* * * * *

December 31, 1985

APPROVED
DATE 12-31-85
JB

Case No. I-7059

Filing by Northwestern Bell Telephone Company of revised North Dakota Access Service Tariffs reflecting the requirements of the Commission's Order in Case Nos. 10,694 and 10,699.

I move that the Commission approve Northwestern Bell Telephone Company's revised North Dakota Access Service Tariffs reflecting the requirements of the Commission's Order in Case Nos. 10,694 and 10,699, Case No. I-7059.

sdh

0208S p18

APPROVED PSC N. DAK.
DEC 31 1985
Case No. I 7059
Formal Case No. _____

December 31, 1985

- Case No. I-7059 - Filing by Northwestern Bell Telephone Company of revised North Dakota Access Service Tariffs reflecting the requirements of the Commission's Order in Case Nos. 10,694 and 10,699.
- Case No. I-7076 - Filing by Northwestern Bell Telephone Company of revised Local Exchange Tariffs increasing local rates in response to this Commission's Order in Case Nos. 10,694 and 10,699.
- Case No. I-7077 - Filing by Northwestern Bell Telephone Company of revised Wide Area Telecommunications Service Tariffs increasing WATS rates in response to this Commission's Order in Case Nos. 10,694 and 10,699.

NWB filed its ND interLATA access tariff in response to the Commission's order in Case Nos. 10,694 and 10,699 on November 15, 1985. By motion on December 9, 1985, the Commission directed NWB to file a new carrier common line access charge rate. The new rate was filed on December 13, along with a few incidental changes to other pages of the tariff.

Based on 1984 data, this tariff filing will reduce the rates that AT&T pays for access to NWB local networks by an annual amount of \$1,866,726. (AT&T's request was for \$3.2 million).

Since NWB will be receiving fewer dollars from AT&T, they are proposing to increase local rates for local exchange services and WATS services by an amount equal to 55¢ per month per access line. An additional 15¢ per access line per month will be charged to local customers to continue the intraLATA toll volume discount plan. Therefore NWB, in I-7076 and I-7077, has proposed to increase local rates by 70¢ per access line per month.

PF/sdh

0208S p17

APPROVED PSC N. DAK.

DEC 31 1985

Case No. I-7059
Formal Case No. _____



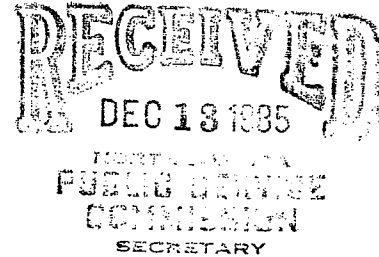
D-7059

Northwestern Bell

105 North Fifth Street
Fargo, North Dakota 58102
Phone (701) 241-3564

Lauren C. Stottler
Assistant Vice President -
Regulatory and Public Affairs

December 13, 1985



Secretary to the Commission
North Dakota Public Service Commission
State Capitol Building, 12th Floor
Bismarck, North Dakota 58505

Attached for filing with the Commission are four copies of revised Access Service Tariff sheets. These sheets should replace same numbered sheets that were submitted to the Commission on November 15, 1985.

The Original Sheet 14 of Section 3 has been revised to reflect the new revised Carrier Common Line rate of \$0.0299. The revenue effect is listed on the attached data calculation work sheets.

Original Sheet 82 of Section 6 has been changed to reflect current Minimum Monthly Usage rates.

The Original Sheet 102 of Section 6 has been corrected to reflect the intercept rate of 100 access minutes instead of per an access minute.

The effective date of the North Dakota Access Service Tariff is January 1, 1986. Please advise us when the Commission has acted on this matter.

Sincerely,

Assistant Vice President -
Regulatory and Public Affairs

Attachments

1: Commissioners

APPROVED PSC N. DAK.

DEC 31 1985

Case No. I 7059

Formal Case No. _____

CARRIER COMMON LINE CHARGE CALCULATION

1.	Current CCLC rate	<u>\$0.0461</u>
2.	Less: CCLC Reduction:	
	a. CCLC reduction x 1984 average access lines x 12	
	<u>75¢</u> x <u>207,414</u> x 12	<u>\$ 1,866,726</u>
	b. Estimated revenue from special access rate changes	<u>186,659</u>
	c. Estimated revenue loss from B and C charge adjustment	<u>636,903</u>
3.	Total CCLC Reduction (Lines 2a + 2b - 2c)	<u>1,416,482</u>
4.	1984 Intrastate/InterLATA Access Minutes of Use	<u>87,581,122</u>
5.	Carrier Common Line Reduction per AMOU (Line 3 : 4)	<u>\$0.0162</u>
6.	Adjusted CCLC per AMOU (Line 1 less Line 5)	<u>0.0299</u>
7.	1984 Intrastate/InterLATA NTS costs (excluding Category 6 central office equipment and customer premise equipment)	<u> </u>
8.	1984 Intrastate/InterLATA SLU Ratio	<u> </u>
9.	1984 Intrastate/InterLATA SLU level NTS costs (7 X 8)	<u>\$ 1,840,000</u>
10.	1986 CPE Revenue Requirement InterLATA Intrastate	<u>270,000</u>
11.	Total NTS Revenue Requirement (9 + 10)	<u>2,110,000</u>
12.	Intrastate/InterLATA Minimum CCLC (Line 11 : 4)	<u>\$0.0241</u>
13.	If Line 6 is greater than Line 12, enter the amount from Line 6. This is your CCLC rate for 1986.	<u>0.0299</u>

InterLATA local exchange rate adjustment is Line 3 divided by our 1986 forecast of access lines divided by 12 months. This will become \$.55 per access line per month for interLATA and \$.15 per month for intraLATA for a total of \$.70.

APPROVED PSC N. DAK.

DEC 31 1985

Case No. I 7059
 Formal Case No.

ND 1986 Access Service Revenues Projected

Switched Access	\$ 6,764,091
Special Access	\$ 1,391,017
Billing and Collection	\$ 823,486
Traffic Sensitive Total	\$ 8,978,594
Carrier Common Line (CCL)	\$ 2,928,481
Local Exchange Rate Adjustment - InterLATA	\$ 1,400,969
Non-Traffic Sensitive Total	\$ 4,329,450
Grand Total Revenue	\$13,308,044
Local Exchange Rate Adjustment - InterLATA	\$ 0.55
CCL Charge Per Access Minute	\$ 0.0299

Special Access Adjustment

1984 Special Access Revenue	\$ 1,078,451
Projected 1986 Special Access Revenue	<u>1,391,557</u>
	\$ 313,106
Less Volume Changes	<u>126,447</u>
Changes Due to Rates	\$ 186,659

Billing and Collection Adjustment

Total 1984 B&C Revenues	\$ 1,660,000
Less Projected 1986 B&C Revenues	<u>823,486</u>
	\$ 836,514

Variable Accounts Receivable	\$491,190	
Less Bad Debt	<u>7,360</u>	
		\$483,830

Repricing Service	<u>153,073</u>	
Tariff Changes		\$636,903

Less Effect of Tariff Changes		<u>636,903</u>
		\$ 199,611

APPROVED PSC N. DAK.

Erosion

DEC 31 1985

Case No. I. 7059

Formal Case No. _____



Public Service Commission
State of North Dakota

COMMISSIONERS

Leo M. Reinbold
President
Dale V. Sandstrom
Bruce Hagen

State Capitol
Bismarck, North Dakota 58505
701-224-2400
800-932-2400
Toll Free in North Dakota

December 10, 1985

Secretary, Janet A. Elkin

Mr. Lauren Stottler
Northwestern Bell Telephone Company
105 North 5th Street
Fargo, ND 58102

Dear Mr. Stottler:

On December 9, 1985, the commission suspended your filing of revised Long Distance Message Telecommunications Service Tariffs implementing an intraLATA Toll Discount Plan in response to this commission's order in Case Nos. 10,699 and 10,694, Case No. I-7070; and denied your filing of revised Wide Area Telecommunications Service Tariffs increasing WATS rates in response to this commission's order in Case Nos. 10,699 and 10,694, Case No. I-7071; and your filing of revised Local Exchange Tariffs increasing local rates in response to this commission's order in Case Nos. 10,699 and 10,694, Case No. I-7072.

In other action of December 9, 1985, the Commission passed the following motion:

"I move the commission direct Northwestern Bell Telephone Company to file a new carrier common line access charge rate in its 1986 North Dakota interLata access tariff that will produce a contribution from interLata toll services for non-traffic sensitive access costs at a level equal to the subscriber line usage ratio of interLata non-traffic sensitive costs, Case No. I-7059."

Sincerely,

Janet A. Elkin
Janet A. Elkin
Secretary

sdh

MOTION

APPROVED:
DATE: 12-9-85
[Signature]

December 9, 1985

Case No. I-7059

NWB filing of a access service tariffs reflecting the requirements of the Commission's Order in Case Nos. 10,694 and 10,699.

I move the commission direct Northwestern Bell Telephone Company to file a new carrier common line access charge rate in its 1986 North Dakota interLata access tariff that will produce a contribution from interLata toll services for non-traffic sensitive access costs at a level equal to the subscriber line usage ratio of interLata non-traffic sensitive costs, Case No. I-7059.

PF/sdh

0208S P20

December 9, 1985

Case No. I-7059 - Filing by Northwestern Bell Telephone Company of revised North Dakota Access Service Tariffs reflecting the requirements of the Commission's Order in Case Nos. 10,694 and 10,699.

In Case Nos. 10,694 and 10,699, the commission directed Northwestern Bell to file intrastate/interLata access charge tariffs for implementation on January 1, 1986. In that order the commission stated that the rates for the traffic sensitive elements of the tariff were to remain at the same level as the rates presently in effect. The rates for billing and collection were to be adjusted in accordance with Northwestern Bell's proposed tariff of June 21, 1985. The special access charges were to mirror the rates proposed in their June 21st filing, and the non-traffic sensitive access charge (carrier common line charge-CCLC) was to be reduced according to the formula found on page 26 of the order.

In the calculation of the CCLC, the non-traffic sensitive support that Northwestern Bell is to receive from toll is not to be less than the revenue Northwestern Bell needs if the level of non-traffic sensitive contribution from interLATA is calculated on a subscriber line usage factor (SLU). However, in this filing the NWB proposal is below that SLU level. Therefore, it is recommended that Northwestern Bell be directed to file a CCLC that does not produce NTS contribution from toll below the subscriber line usage ratio of interLata NTS costs.

PF/sdh

0208S P19

RECEIVED
NOV 15 1985

Lauren C. Stottler
Assistant Vice President -
Regulatory and Public Affairs

NORTH DAKOTA
**PUBLIC SERVICE
COMMISSION**
SECRETARY



Northwestern Bell

105 North Fifth Street
Fargo, North Dakota 58102
Phone (701) 241-3564

November 15, 1985

Secretary to the Commission
North Dakota Public Service Commission
State Capitol Building - 12th Floor
Bismarck, North Dakota 58505

Attached for filing with the Commission are four copies of the proposed North Dakota Access Service Tariff.

This tariff completely replaces the current North Dakota Access Service Tariff which was approved by the Commission per Case No. 10444. The current tariff became effective at the time that divestiture took place on January 1, 1984.

The attached tariff incorporates rates and features per Commission Order Case No. 10699 dated October 8, 1985.

The effective date of this tariff is January 1, 1986. Please advise us when the Commission has acted on this matter.

Sincerely,

Lauren Stottler
Assistant Vice President-
Regulatory and Public Affairs

Attachments

ADDITIONAL INFORMATION FOR TELEPHONE TARIFF FILING

I. Description of Service Affected:

Revision to the North Dakota Access Service Tariff. The Access Service Tariff contains rules, regulations and rates charged to Interexchange Carriers who provide interLATA toll services in North Dakota.

II. Change Being Proposed:

See the attached information sheet.

III. Reason for Change:

This tariff will reduce the nontraffic sensitive support subsidy of local exchange rates from toll services by reducing charges and rates billed to the Interexchange Carrier. The Local Exchange Tariff will be revised to increase local exchange rates accordingly.

IV. Customer Reaction:

The average North Dakota customer who uses toll will see a reduction in their toll costs and an increase in their local exchange service rates.

V. Revenue Effect on Company:

See the attached information sheet.

VI. Effective Date:

The effective date of this tariff is January 1, 1986.

Access Tariff Filing Information

Access rates and associated rules and regulations listed in the five sections below pertain to the October 8 order:

- Section 3 Carrier Common Line Service
- Section 4 End User Service
- Section 6 Switching Access Service
- Section 7 Special Access Service
- Section 8 Billing and Collection Service

Other sections of the tariff pertain to tariff application, general regulations, access order writing procedures, testing and maintenance work and specialized access service arrangements.

The following is specific information in the five sections listed above as they relate to the October 8, 1985, Commission Access Order.

Section 3 Carrier Common Line

The Carrier Common Line (CCL) charge is billed by NWB to the interexchange carrier to provide revenue to support NTS costs of local exchange carriers. This is sometimes referred to as the local exchange support subsidy from interexchange toll services. As prescribed by the order, some of this cost has been moved to the end user in the form of a Local Exchange Rate Adjustment. The CCL charge will not be assessed on the closed end of WATS and 800 Service in this tariff which is consistent with the current access tariff.

Section 4 End User Charges

Pursuant to the October 8 order, the \$.90 charge will be added to each subscriber line each month in the form of a Local Exchange Rate Adjustment in the Local Exchange Service Tariff and there will be no end user charge in the access tariff. The revised Local Exchange Tariff will be submitted on December 1, 1985. The North Dakota WATS Service Tariff will also be revised to add \$.90 to each WATS and 800 Service access line. The WATS tariff will be submitted on December 1, 1985.

Section 6 Switching Access

Rates per the proposed access tariff reflect rates currently in effect for local transport, local switching, line termination and intercept elements as approved in the October 8 order.

Section 7 Special Access

The October 8 order approved special access in rates contained in the tariff that was filed with the Commission on June 21, 1985. Rates and tariff structure in the enclosed tariff are the same as the June 21 tariff.

Section 8 Billing and Collection

Billing and collection rates in this tariff are the same as proposed in the June 21 filing. Access rate elements have been adjusted so that anticipated billing and collection 1986 revenue erosion caused by volume changes will not be reflected in the 1986 revenue requirement data.

The attached sheet reflects revenue calculation information data associated with this filing.

Attachment

11/15/85

1986 Projected Revenue

Total 1984 Access Revenue	\$12,119,015
Less Billing and Collection Erosion	192,251
Plus Equal Access and Network Reconfiguration	591,030
Equals 1986 Projected Revenue	\$12,517,794

ND 1986 Access Service Revenues Projected

Switched Access	\$ 6,764,091
Special Access	1,391,017
Billing and Collection	823,486
Traffic Sensitive Total	\$ 8,978,594
Carrier Common Line (CCL)	\$ 1,628,758
Local Exchange Rate Adjustment - InterLATA	1,910,442
Non-Traffic Sensitive Total	\$ 3,539,200
Grand Total Revenue	\$12,517,794

Local Exchange Rate Adjustment - InterLATA	\$ 0.75
CCL Charge Per Access Minute	\$ 0.0166

Special Access Adjustment

Total 1984 SA Revenue	\$ 1,077,911
Projected 1986 SA Revenue	1,391,017
SA Adjustment	313,106

Billing and Collection

Total 1984 B&C Revenues	\$ 1,660,000
Projected 1986 Revenues	<u>-823,486</u>
	\$ 836,514
Less Effects of Tariff Charges	<u>-644,263</u>
Erosion	\$ 192,251
Repricing Services	\$153,073
Variable Accounts Receivable	<u>491,190</u>
Total Tariff Charges	\$644,263

Carrier Common Line Rate Per October 8 Order

Local Exchange Rate Adjustment - InterLATA	\$ 0.75
1984 Access Lines	207,414
Annualization (X 12 Months)	\$ 1,866,732
Plus Special Access Adjustment - \$313,106	\$ 2,179,838
Less B and C Adjustment - \$644,263	\$ 1,535,575
1984 CCL Access Minutes	87,581,122
CCL Rate Adjustment	\$ 0.0175
Current	\$0.0461
Less Adj. Above	0.0175
Adj. CCL Rate	\$0.0286

We propose to use the CCL rate of \$0.0166 which is based on 1986 projected access revenue. The CCL rate of \$0.0286 reflected above would exceed our projected revenue by \$1,172,398.

11/15/85

Northwestern Bell
Telephone Company
State of North Dakota
Issued: November 15, 1985

ACCESS
SERVICE TARIFF

Original Sheet 1
Effective: January 1, 1986



REGULATIONS, RATES AND CHARGES

Applying to the provision of Access Services
within a Local Access and Transport Area (LATA) for
Connection to Intrastate Communications Facilities
for Intrastate Customers within the
Operating territory of the

NORTHWESTERN BELL TELEPHONE COMPANY

In the State of North Dakota

L. C. Stottler
Assistant Vice President-Regulatory & Public Affairs
105 5th Street North
Fargo, North Dakota

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CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS

NONE

REGISTERED TRADEMARKS

NONE

EXPLANATION OF SYMBOLS

- (C) - To signify changed regulation
- (D) - To signify discontinued rate or regulation
- (I) - To signify increase
- (N) - To signify new rate or regulation
- (R) - To signify reduction
- (S) - To signify reissued matter
- (T) - To signify a change in text but no change in rate or regulation

EXPLANATION OF ABBREVIATIONS

- ac - Alternating current
- AML - Actual Measured Loss
- ANI - Automatic Number Identification
- AP - Program Audio
- AT&T - American Telephone and Telegraph Company
- BD - Business Day
- BHMC - Busy Hour Minutes of Capacity
- CAROT - Centralized Automatic Reporting on Trunks
- CI - Changes Interface
- CO - Central Office
- COCTX - Central Office Centrex
- Cont'd - Continued
- CPE - Customer Provided Equipment
- Ctx - Centrex
- DA - Directory Assistance
- dB - decibel
- dBrnC - Decibel Reference Noise C-Message Weighting
- dBrnC0 - Decibel Reference Noise C-Message Weighted to 0
- dBv - Decibel(s) Relative to 1 Volt (Reference)
- dBv1 - Decibel(s) Relating to 1 Volt (Reference)
- dc - direct current
- EDD - Envelope Delay Distortion
- ELEPL - Equal Level Echo Path Loss
- EML - Expected Measured Loss
- EPL - Echo Path Loss
- ERL - Echo Return Loss
- ESS - Electronic Switching System
- ESSX - Electronic Switching System Exchange
- f - frequency
- FID - Field Identifier
- F.C.C. - Federal Communications Commission
- FX - Foreign Exchange
- HC - High Capacity
- Hz - Hertz

EXPLANATION OF ABBREVIATIONS (Cont'd)

IC	-	Interstate Customer
ICB	-	Individual Case Basis
ICL	-	Inserted Connection Loss
kbps	-	kilobits per second
kHz	-	kilohertz
LATA	-	Local Access and Transport Area
Ma	-	milliamperes
Mbps	-	Megabits per second
MHz	-	Megahertz
MMUC	-	Minimum Monthly Usage Charge
MRC	-	Monthly Recurring Charge
MTS	-	Message Telecommunications Service(s)
NB	-	Narrowband
NPA	-	Numbering Plan Area
NRC	-	Nonrecurring Charge
NTS	-	Non-Traffic Sensitive
NXX	-	Three-Digit Central Office Code
OTPL	-	Zero Transmission Level Point
PBX	-	Private Branch Exchange
PCM	-	Pulse Code Modulation
PLR	-	Private Line Ringdown
POT	-	Point of Termination
rms	-	root-mean-square
RSM	-	Remote Switching Modules
RSS	-	Remote Switching Systems
SRL	-	Singing Return Loss
SSN	-	Switched Service Network
SWC	-	Serving Wire Center
TES	-	Telephone Exchange Service(s)
TLP	-	Transmission Level Point
TSPS	-	Traffic Service Position System
TV	-	Television
USOC	-	Uniform Service Order Code
VG	-	Voice Grade
V & H	-	Vertical & Horizontal
WA	-	Wideband Analog
WATS	-	Wide Area Telecommunications Service(s)
WD	-	Wideband Digital

REFERENCE TO OTHER TARIFFS

Whenever reference is made in this tariff to other tariffs of the Telephone Company, the reference is to the tariffs in force as of the effective date of this tariff, and to amendments thereto and successive issues thereof.

REFERENCE TO TECHNICAL PUBLICATIONS

The following technical publications are referenced in this tariff and may be obtained from Literary Data Center, Inc., G. P. O. Box C-9014, Brooklyn, N.Y. 11202:

Compatibility Bulletin 106, Issue 2	
Issued: December, 1981	Available: March 11, 1982
Technical Reference:	
PUB 41451*	
Issued: January, 1983	Available: May 17, 1983
PUB 60101	
Issued: December, 1982	Available: January 17, 1983
PUB 41004	
Issued: October, 1973	Available: October, 1973
PUB 62310	
Issued: September, 1983	Available: October, 1983
PUB 62411	
Issued: September, 1983	Available: October, 1983
PUB 62500	
Issued: December, 1983	Available: March 15, 1984
PUB 62501	
Issued: December, 1983	Available: March 15, 1984
PUB 62501 Addendum	
Issued: March, 1984	Available: April, 1984
PUB 62502	
Issued: December, 1983	Available: January, 1984
PUB 62503	
Issued: December, 1983	Available: March 15, 1984
PUB 62503 Addendum	
Issued: March, 1984	Available: April, 1984
PUB 62504	
Issued: December, 1983	Available: March 15, 1984

*Status of this publication is in question regarding pending resolution of its applicability to Satellite Digital Service.

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ACCESS
SERVICE TARIFF

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

PUB 62504 Addendum Issued: March, 1984	Available: April, 1984
PUB 62505 Issued: December, 1983	Available: January, 1984
PUB 62505 Addendum Issued: March, 1984	Available: April, 1984
PUB 62506 Issued: December, 1983	Available: January, 1984
PUB 62507 Issued: December, 1983	Available: March 15, 1984
PUB 62508 Issued: December, 1983	Available: January, 1984

The following technical publication is referenced in this tariff and may be obtained from the Bell System for Technical Education, Room F214, 6200 Route 53, Lisle, IL 60532.

Telecommunications Transmission Engineering
Volume 3 - Networks and Services (Chapter 6 and 7)
Second Edition, 1980
Issued: June, 1980

Available: June, 1980

The following Technical Publication is referenced in this tariff and may be obtained from the National Exchange Carrier Association, Inc., Group Manager Tariff Administration, 100 S. Jefferson Road, Whippany, NJ 07981 and the Federal Communications Commission's commercial contractor.

PUB AS No. 1
Issued: March, 1984

Available: April, 1984

Northwestern Bell
Telephone Company
State of North Dakota
Issued: November 15, 1985

ACCESS
SERVICE TARIFF

Section 1
Original Sheet 1
Effective: January 1, 1986

1. Application of Tariff

- 1.1 This tariff contains regulations, rates and charges applicable to the provision of Carrier Common Line, End User Access, Switched Access and Special Access Services, and other miscellaneous services, hereinafter referred to collectively as service(s), provided by the Northwestern Bell Telephone Company, hereinafter referred to as the Telephone Company, to customers.
- 1.2 The provision of such services by the Telephone Company as set forth in this tariff does not constitute a joint undertaking with the customer for the furnishing of any service.

2. General Regulations

2.1 Undertaking of the Telephone Company

2.1.1 Scope

- (A) The Telephone Company does not undertake to transmit messages under this tariff.
- (B) The Telephone Company shall be responsible only for the installation, operation and maintenance of the services it provides.
- (C) The Telephone Company will, for maintenance purposes, test its services only to the extent necessary to detect and/or clear troubles.
- (D) Services are provided 24 hours daily, seven days per week, except as set forth in other applicable sections of this tariff.
- (E) The Telephone Company does not warrant that its facilities and services meet standards other than those set forth in this tariff.

2.1.2 Limitations

- (A) The customer may not assign or transfer the use of services provided under this tariff; however, where there is no interruption of use or relocation of the services, such assignment or transfer may be made to:
 - (1) another customer, whether an individual, partnership, association or corporation, provided the assignee or transferee assumes all outstanding indebtedness for such services, and the unexpired portion of the minimum period and the termination liability applicable to such services, if any; or
 - (2) a court-appointed receiver, trustee or other person acting pursuant to law in bankruptcy, receivership, reorganization, insolvency, liquidation or other similar proceedings, provided the assignee or transferee assumes the unexpired portion of the minimum period and the termination liability applicable to such services, if any.

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

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(A) (Cont'd)

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

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

(C) Subject to compliance with the rules mentioned in (B) preceding where a shortage of facilities or equipment exists at any time, either for temporary or protracted periods, the services offered herein will be provided to customers on a first-come, first-served basis.

2.1.3 Liability

(A) The Telephone Company's liability, if any, for its willful misconduct is not limited by this tariff. With respect to any other claim or suit, by a customer, or by any others, for damages associated with the installation, provision, termination, maintenance, repair or restoration of service, and subject to the provisions of (B) through (G) following, the Telephone Company's liability except as set forth in 8.1.3 following, if any, shall not exceed an amount equal to the proportionate charge for the service for the period during which the service was affected. This liability for damages shall be in addition to any amounts that may otherwise be due the customer under this tariff as a Credit Allowance for a Service Interruption.

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

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

- (C) The Telephone Company is not liable for damages to the customer premises resulting from the furnishing of a service, including the installation and removal of equipment and associated wiring, unless the damage is caused by the Telephone Company's negligence.
- (D) The Telephone Company shall be indemnified, defended and held harmless by the end user against any claim, loss or damage arising from the end user's use of services offered under this tariff, involving:
- (1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the end user's own communications;
 - (2) Claims for patent infringement arising from the end user's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the end user or IC or;
 - (3) All other claims arising out of any act or omission of the end user in the course of using services provided pursuant to this tariff.
- (E) The Telephone Company shall be indemnified, defended and held harmless by the IC against any claim, loss or damage arising from the IC's use of services offered under this tariff, involving:
- (1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the IC's own communications;
 - (2) Claims for patent infringement arising from the IC's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the end user or IC or;
 - (3) All other claims arising out of any act or omission of the IC in the course of using services provided pursuant to this tariff.

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

- (F) The Telephone Company does not guarantee or make any warranty with respect to its services when used in an explosive atmosphere. The Telephone Company shall be indemnified, defended and held harmless by the customer from any and all claims by any person relating to such customer's use of services so provided.
- (G) No license under patents (other than the limited license to use) is granted by the Telephone Company or shall be implied or arise by estoppel, with respect to any service offered under this tariff. The Telephone Company will defend the customer against claims of patent infringement arising solely from the use by the customer of services offered under this tariff and will indemnify such customer for any damages awarded based solely on such claims.
- (H) The Telephone Company's failure to provide or maintain services under this tariff shall be excused by labor difficulties, governmental orders, civil commotions, criminal actions taken against the Telephone Company, acts of God and other circumstances beyond the Telephone Company's reasonable control, subject to the Credit Allowance for a Service Interruption as set forth in 2.4.4 following.

2.1.4 Provision of Services

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

2.1.5 Installation and Termination of Services

The services provided under this tariff (A) will include any entrance cable or drop wiring and wire or intrabuilding cable to that point where provision is made for termination of the Telephone Company's outside distribution network facilities at a suitable location inside a customer-designated premises and (B) will be installed by the Telephone Company to such Point

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.5 Installation and Termination of Services (Cont'd)

of Termination. Wire required within a building to extend Access Service facilities will be provided, at the customer's request, on a time sensitive charge basis. The labor rates for the installation of such wire are the same as those set forth in 13.2.6(C) following for Other Labor.

2.1.6 Maintenance of Services

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

2.1.7 Changes and Substitutions

Except as provided for equipment and systems subject to FCC Part 68 Regulations at 47 C.F.R. Section 68.110(b) the Telephone Company may, where such action is reasonably required in the operation of its business, (A) substitute, change or rearrange any facilities used in providing service under this tariff, including but not limited to, (1) substitution of different metallic facilities, (2) substitution of carrier or derived facilities for metallic facilities used to provide other than metallic facilities and (3) substitution of metallic facilities for carrier or derived facilities used to provide other than metallic facilities, (B) change minimum protection criteria, (C) change operating or maintenance characteristics of facilities or (D) change operations or procedures of the Telephone Company. In case of any such substitution, change or rearrangement, the transmission parameters will be within the range as set forth in 6. following. The Telephone Company shall not be responsible if any such substitution, change or rearrangement renders any customer furnished services obsolete or requires modification or alteration thereof or otherwise affects their use or performance. If such substitution, change or rearrangement materially affects the operating characteristics of the facility, the Telephone Company will provide reasonable notification to the customer in writing. Reasonable time will be allowed for any redesign and implementation required by the change in operating characteristics. The Telephone Company will work cooperatively with the customer to determine reasonable notification procedures.

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service

(A) Unless the provisions of 2.2.1(B) or 2.5 following apply, if a customer fails to comply with 2.1.6 preceding or 2.2.2, 2.3.1, 2.3.4, 2.3.5 or 2.4 following, including any payments to be made by it on the dates and times herein specified, the Telephone Company may, on thirty (30) days written notice by Certified U.S. Mail to the person designated by that customer to receive such notices of noncompliance, refuse additional applications for service and/or refuse to complete any pending orders for service by the non-complying customer at any time thereafter.

If the Telephone Company does not refuse additional applications for service on the date specified in the thirty (30) days notice, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to refuse additional applications for service to the non-complying customer without further notice.

(B) Unless the provisions of 2.2.1(B) or 2.5 following apply, if a customer fails to comply with 2.1.6 preceding or 2.2.2, 2.3.1, 2.3.4, 2.3.5 or 2.4 following, including any payments to be made by it on the dates and times herein specified, the Telephone Company may, on thirty (30) days written notice by Certified U.S. Mail to the person designated by that customer to receive such notices of noncompliance, discontinue the provision of the services to the non-complying customer at any time thereafter. In the case of such discontinuance, all applicable charges, including termination charges, shall become due. If the Telephone Company does not discontinue the provision of the services involved on the date specified in the thirty (30) days notice, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to discontinue the provision of the services to the non-complying customer involved without further notice.

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.9 Limitation of Use of Metallic Facilities

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

2.1.10 Notification of Service-Affecting Activities

The Telephone Company will provide the customer reasonable notification of service-affecting activities that may occur in normal operation of its business. Such activities may include, but are not limited to, equipment or facilities additions, removals or rearrangements, routine preventative maintenance and major switching machine change-out. Generally, such activities are not individual customer service specific, they affect many customer services. No specific advance notification period is applicable to all service activities. The Telephone Company will work cooperatively with the customer to determine the notification requirements.

2.1.11 Coordination with Respect to Network Contingencies

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

2.1.12 Provision and Ownership of Telephone Numbers

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

2. General Regulations (Cont'd)

2.2 Use

2.2.1 Interference or Impairment

- (A) The characteristics and methods of operation of any circuits, facilities or equipment provided by other than the Telephone Company and associated with the facilities utilized to provide services under this tariff shall not interfere with or impair service over any facilities of the Telephone Company, its affiliated companies, or its connecting and concurring carriers involved in its services, cause damage to their plant, impair the privacy of any communications carried over their facilities or create hazards to the employees of any of them or the public.
- (B) Except as provided for equipment or systems subject to the FCC Part 68 Rules in 47 C.F.R. Section 68.108, if such characteristics or methods of operation are not in accordance with (A) preceding, the Telephone Company will, where practicable, notify the customer that temporary discontinuance of the use of a service may be required; however, where prior notice is not practicable, nothing contained herein shall be deemed to preclude the Telephone Company's right to temporarily discontinue forthwith the use of a service if such action is reasonable under the circumstances. In case of such temporary discontinuance, the customer will be promptly notified and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance. During such period of temporary discontinuance, credit allowance for service interruptions as set forth in 2.4.4 following is not applicable.

2.2.2 Unlawful Use

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

2.3 Obligations of the Customer

2.3.1 Damages

The customer shall reimburse the Telephone Company for damages to Telephone Company facilities utilized to provide services under this tariff caused by the negligence or willful act of the customer, or resulting from the customer's improper use of the Telephone Company facilities, or due to malfunction of any facilities or equipment provided by other than the Telephone Company. Nothing in the foregoing provision shall be

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.1 Damages (Cont'd)

interpreted to hold one customer liable for another customer's actions. The Telephone Company will, upon reimbursement for damages, cooperate with the customer in prosecuting a claim against the person causing such damage and the customer shall be subrogated to the right of recovery by the Telephone Company for the damages to the extent of such payment.

2.3.2 Ownership of Facilities and Theft

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

2.3.3 Equipment Space and Power

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

2.3.4 Availability for Testing

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

2.3.5 Balance

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

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.6 Design of Customer Services

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

2.3.7 References to the Telephone Company

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

2.3.8 Claims and Demands for Damages

- (A) With respect to claims of patent infringement made by third persons, the customer shall defend, indemnify, protect and save harmless the Telephone Company from and against all claims arising out of the combining with, or use in connection with, the services provided under this tariff, any circuit, apparatus, system or method provided by the customer.
- (B) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by third persons arising out of the construction, installation, operation, maintenance, or removal of the customer's circuits, facilities, or equipment connected to the Telephone Company's services provided under this tariff, including, without limitation, Workmen's Compensation claims, actions for infringement of copyright and/or unauthorized use of program material, libel and slander actions based on the content of communications transmitted over the customer's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses, or other authority to acquire or operate the services provided under this

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.8 Claims and Demands for Damages (Cont'd)

(B) (Cont'd)

tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortious conduct of the customer, its officers, agents or employees.

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

2.3.9 Coordination with respect to Network Contingencies

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

2.3.10 Jurisdictional Report Requirements

(A) Jurisdictional Reports

- (1) When the customer orders service for both interstate and intrastate use, the projected interstate percentage of use and intrastate percentage of use must be provided in whole numbers to the Telephone Company. These percentages will be used by the Telephone Company to apportion the use and/or charges between interstate and intrastate until a revised report is received as set forth in (2) following.
- (2) Effective on the first of January, April, July and October of each year, the customer shall update the interstate and intrastate jurisdictional report. The customer shall forward to the Telephone Company, to be received no later than 15 days after the first of each such month, a revised report showing the interstate and intrastate percentage of use for the past three months ending the last day of December,

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(2) (Cont'd)

March, June and September, respectively, for each service arranged for interstate and intrastate use. the revised report will serve as the basis for the next three months billing and will be effective on the bill date for that service. No prorating or back billing will be done based on the report.

2.4 Payment Arrangements and Credit Allowances

2.4.1 Payment of Rates, Charges and Deposits

(A) The Telephone Company will, in order to safeguard its interests, only require a customer which has a proven history of late payments to the Telephone Company or does not have established credit, to make a deposit prior to or at any time after the provision of a service to the customer to be held by the Telephone Company as a guarantee of the payment of rates and charges. No such deposit will be required of a customer which is a successor of a company which has established credit and has no history of late payments to the Telephone Company. Such deposit may not exceed the actual or estimated rates and charges for the service for a two month period. The fact that a deposit has been made in no way relieves the customer from complying with the Telephone Company's regulations as to the prompt payment of bills. At such time as the provision of the service to the customer is terminated, the amount of the deposit will be credited to the customer's account and any credit balance which may remain will be refunded. Such a deposit will be refunded or credited to the account when the customer has established credit or, in any event, after the customer has established a one-year prompt payment record at any time prior to the termination of the provision of the service to the customer. In case of a cash deposit, for the period the deposit is held by the Telephone Company, the customer will receive interest at the same percentage rate as that set forth in (B)(3)(b)(I)

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

or in (B)(3)(b) (II), whichever is lower. The rate will be compounded daily for the number of days from the date the customer deposit is received by the Telephone Company to and including the date such deposit is credited to the customer's account or the date the deposit is refunded by the Telephone Company. Should a deposit be credited to the customer's account, as indicated above, no interest will accrue on the deposit from the date such deposit is credited to the customer's account.

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

(1) For End User Access Service and Presubscription Service, the Telephone Company will establish a bill day each month for each end user account. The bill will cover End User Access Service charges for the ensuing billing period except for End User Access Service for the Federal Government which will be billed in arrears. Any applicable presubscription charges, any known unbilled charges for prior periods and any known unbilled adjustments for prior periods for End User Access Service and Presubscription Service will be applied to this bill. Such bills are due when rendered.

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) (Cont'd)

- (2) For Service other than End User Access Service and Presubscription Service, the Telephone Company will establish a bill day each month for each customer account. The bill will cover nonusage sensitive service charges for the ensuing billing period for which the bill is rendered, and any known unbilled nonusage sensitive charges for prior periods and unbilled usage charges for the period after the last bill day through the current bill day. Any known unbilled usage charges for prior periods and any known unbilled adjustments will be applied to this bill. Payment for such bills is due as set forth in (3) following. If payment is not received by the payment date, as set forth in (3) following in immediately available funds, a late payment penalty will apply as set forth in (3) following.
- (3) (a) All bills dated as set forth in (2) preceding for service, other than End User Service and Presubscription Service provided to the customer by the Telephone Company, are due 31 days (payment date) after the bill day or by the next bill date (i.e., same date in the following month as the bill date) whichever is the shortest interval, except as provided herein, and are payable in immediately available funds. If such payment date would cause payment to be due on a Saturday, Sunday or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the second Tuesday in November and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment for such bills will be due from the customer as follows:

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) (Cont'd)

(3) (a) (Cont'd)

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

(b) Further, if any portion of the payment is received by the Telephone Company after the payment date as set forth in (a) preceding, or if any portion of the payment is received by the Telephone Company in funds which are not immediately available to the Telephone Company, then a late payment penalty shall be due to the Telephone Company. The late payment penalty shall be the portion of the payment not received by the payment date times a late factor. The late factor shall be the lesser of:

(I) the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company, or

(II) 0.000590 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company.

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) (Cont'd)

(3) (Cont'd)

(c) In the event that a billing dispute concerning any charges billed to the customer by the Telephone Company is resolved in favor of the Telephone Company, any payments withheld pending settlement of the dispute shall be subject to the late payment penalty set forth in (b) preceding. If the customer disputes the bill on or before the payment date, and pays the undisputed amount on or before the payment date, any late payment charge for the disputed amount will not start until 10 days after the payment date. If the billing dispute is resolved in favor of the customer, no late payment penalty will apply to the disputed amount. In addition, if the customer disputes the billed amount and pays the total amount (i.e., the nondisputed amount and the disputed amount) on or before the payment date and the billing dispute is resolved in the favor of the customer, the customer will receive a credit for a disputed amount penalty from the Telephone Company if the billing dispute is not resolved within 10 working days following the payment date or the date the customer furnishes to the Telephone Company documentation to support its claim plus 10 working days, whichever date is the later date. The disputed amount penalty shall be the disputed amount resolved in the customer's favor times a penalty factor. The penalty factor is as set forth in (b) preceding.

(C) When a payment for Access Service charges billed under this tariff is due to the Telephone Company from the customer as set forth in (B)(3) preceding on the same payment date that a Purchase of Accounts Receivable net purchase amount is due to the customer from the Telephone Company as set forth in 8.2.3 following, the Telephone Company may, with at least 31 days notice to the customer, net the payment for customer Access Service Charges with the net purchase amount. The Telephone Company will pay the net amount to the customer on the

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(C) (Cont'd)

payment date when such net amount is due to the customer or require the customer to pay to the Telephone Company the net amount when such net amount is due to the Telephone Company. If either party does not make the payment on the payment date, a late payment penalty as set forth in 8.2.3(C) following or (B)(3) preceding, whichever is appropriate, applies.

(D) Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period set forth for services in other sections of this tariff will be prorated to the number of days or major fraction of days based on a 30 day month. The Telephone Company will, upon request and if available, furnish such detailed information as may reasonably be required for verification of any bill.

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

(F) When more than one copy of a customer bill for services provided under the provisions of this tariff is furnished to the customer, an additional charge applies for each additional copy of the bill as set forth in 13.3.6 following.

2.4.2 Minimum Periods

The minimum period for which services are provided and for which rates and charges are applicable is one month except for those services set forth in 5.2.5(c), 8.2.1(E)(2), 8.2.2(E)(2), 8.3.5(B), 8.4.5(A) and 13.3.5(C)(1)(b),(c) and (d) following.

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

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.2 Minimum Periods (Cont'd)

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

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

2.4.3 Cancellation of an Order for Service

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

2.4.4 Credit Allowance for Service Interruptions

(A) General

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer as set forth in 6.5.1 following. An interruption period starts when an inoperative service is reported to the Telephone Company, and ends when the service is operative.

(B) When a Credit Allowance Applies

In case of an interruption to any service, allowance for the period of interruption, if not due to the negligence of the customer, shall be as follows:

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

- (1) For Special Access Services no credit shall be allowed for an interruption of less than four hours. The customer shall be credited for an interruption of four hours or more at the rate of 1/180 of the monthly charges for the facility or service for each period of four hours or major fraction thereof that the interruption continues.

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

- (a) For two-point services, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., local channel, channel interface, channel mileage and optional features).
- (b) For multipoint services, the monthly charge shall be only the total of all the monthly rate element charges associated with that portion of the service that is inoperative (i.e., a connecting channel between the Hub and a customer premises and associated channel interface, channel mileage and optional features and functions).
- (c) For multiplexed services, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service that is inoperative. When the facility which is multiplexed or the multiplexer itself is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., the local channel to the Hub and its associated channel interface, channel mileage and optional features and functions, including the multiplexer, and the local channels from the Hub and their associated channel interfaces, channel mileages and optional features and functions). When the service which rides a channel of the multiplexed facility is inoperative, the

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(1) (Cont'd)

(c) (Cont'd)

monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service from the Hub to a customer premises (i.e., local channel, channel interface, channel mileage and optional features and functions).

- (2) For Switched Access Service, no credit shall be allowed for an interruption of less than 24 hours. The customer shall be credited for an interruption of 24 hours or more at the rate of 1/30 of the applicable minimum monthly usage charge for each period of 24 hours or major fraction thereof that the interruption continues.
- (3) The credit allowance(s) for an interruption or for a series of interruptions shall not exceed the minimum monthly usage charge for the service interrupted in any one monthly billing period.
- (4) For certain Special Access services (Wideband Digital, WD1-3; Digital Data Access, DA1-4; and High Capacity, HC1), any period during which the error performance is below that specified for the service will be considered as an interruption.
- (5) Service interruptions for Specialized Service or Arrangements provided under the provisions of 12. Following shall be administered in the same manner as those set forth in this section (2.4.4) unless other regulations are specified with the individual case filing.

(C) When a Credit Allowance Does Not Apply

No credit allowance will be made for:

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

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

- (2) Interruptions of a service due to the failure of equipment or systems provided by the customer or others.
- (3) Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.
- (4) Interruptions of a service when the customer has released that service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service during the time that was negotiated with the customer prior to the release of that service. Thereafter, a credit allowance as set forth in (B) preceding applies.
- (5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction, as set forth in this Company's Special Construction Tariff for the State of North Dakota. The period for which no credit allowance is made begins on the seventh day after the customer receives the Telephone Company's written notification of the need for such replacement and ends on the day after receipt by the Telephone Company of the customer's written authorization for such replacement.
- (6) Periods when the customer elects not to release the service for testing and/or repair and continues to use it on an impaired basis.
- (7) An interruption or a group of interruptions, resulting from a common cause, for amounts less than one dollar.

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

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

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(E) Temporary Surrender of a Service

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

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

(A) Nonrecurring Charges Do Not Apply

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

- (1) The service is of the same type as was provided prior to the fire, flood or other occurrence.
- (2) The service is for the same customer.
- (3) The service is at the same location on the same premises.
- (4) The re-establishment of service begins within 60 days after Telephone Company service is available. (The 60 day period may be extended a reasonable period if the renovation of the original location on the premises affected is not practical within the allotted time period).

(B) Nonrecurring Charges Apply

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

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.6 Title or Ownership Rights

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

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

The Telephone 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 set forth in (A) following.

- (A) When an Access Service is ordered by a customer where one end of the Transport element is in one Exchange Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, each involved Exchange Telephone Company will accept the order for the Access Service from the customer. Each Exchange Telephone Company will provide its portion of the Transport element in its operating territory to an interconnection point (IP) with another Exchange Telephone Company. Each Exchange Telephone Company will determine the charges involved for its portion of the Access Service ordered and will bill such charges in accordance with its Access Service tariff. Where the premises of the ordering customer and at least one other customer premises involved in the order is in a different operating territory, the mileage used to determine the Transport element will be the mileage measured from the Telephone Company premises for one end of the Transport element in the Exchange Telephone Company operating territory to the Telephone Company premises for the other end of the Transport element in the other Exchange Telephone Company operating territory. The rate for the Transport element will be the rate in each Exchange Telephone Company's tariff for the mile band for the mileage measured as set forth in the preceding sentence. Each Exchange Telephone Company's charge for the Transport element will be the product of the Exchange Telephone Company's rate for the mile band for the mileage measured between the two Telephone Company premises for the two ends of the Transport element and

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

the mileage from the Exchange Telephone Company's premises to the interconnection point (IP) and divided by the sum of the mileage from the rating Exchange Telephone Company premises to the interconnection point (IP) and the mileage from the other involved Exchange Telephone Company premises to the interconnection point(s) (IP) (See examples following). All other appropriate charges in each Exchange Telephone Company's tariff are applicable.

The IP will be determined by the Exchange Telephone Companies involved and the IP will be listed in Exchange Carrier Association Tariff F.C.C. No. 2.

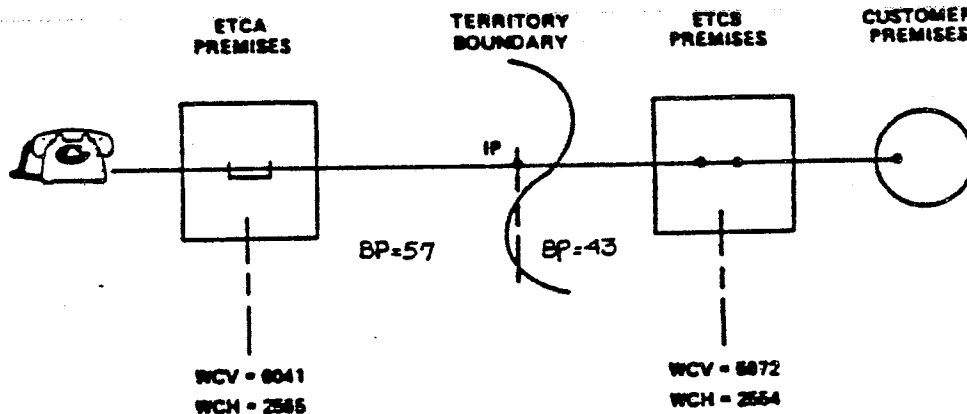
(B) Example - Switched Access

(1) Layout

- a) Feature Group C Switched Access is ordered to End Office A.
- b) End Office A is in operating territory of Exchange Telephone Company A.
- c) Premises of ordering Customer is in operating territory of Exchange Telephone Company B.

Exchange Telephone Company A
(ETCA)
Operating Territory

Exchange Telephone Company B
(ETCB)
Operating Territory



2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) (Cont'd)

(2) Airline Mileages (Using EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 2.)

- ETCA premises to ETCB premises = 22.1, rounded = 23
- ETCA premises to IP = 12.3, rounded = 13
- ETCB premises to IP = 9.3, rounded = 10

(3) Local Transport charges for 9000 access minutes

- Assume ETCA rate for Local Transport mileband of over 16 to 25 miles is \$0.0120 per access minute
- Assume ETCB rate for Local Transport mileband of over 16 to 25 miles is \$0.0125 per access minute
- Formula:

$$\text{ETCA Local Transport Charge} = \frac{\text{Access Minutes} \times \text{ETCA Rate} \times \text{ETCA Mileage to IP}}{\text{ETCA Mileage to IP} + \text{ETCB Mileage to IP}}$$

- Calculation of Transport Charges

$$\text{ETCA Local Transport Charge} = 9000 \times \$0.0120 \times \frac{13}{13+10} = \$61.04$$

$$\text{ETCB Local Transport Charge} = 9000 \times \$0.0125 \times \frac{10}{13+10} = \$48.91$$

2.5 Connections

2.5.1 General

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

2. General Regulations (Cont'd)

2.6 Definitions

Certain terms used herein are defined as follows:

Access Code

The term "Access Code" denotes a uniform five or seven digit code assigned by the Telephone Company to an individual customer. The five digit code has the form 10XXX, and the seven digit code has the form 950-10XX.

Access Minutes

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

Access Tandem

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

Answer/Disconnect Supervision

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

Attenuation Distortion

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

Balance (100 Type) Test Line

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Bit

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

Business Day

The term "Business Day" denotes the times of day that a company is open for business. Generally, in the business community, these are 8:00 or 9:00 A.M. to 5:00 or 6:00 P.M., respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week. However, Business Day hours for the Telephone Company may vary based on company policy, union contract and location.

Busy Hour Minutes of Capacity (BHMC)

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

Call

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

Carrier or Common Carrier

See Interexchange Carrier

CCS

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

Central Office

The term "Central Office" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks.

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Central Office Prefix

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

Centralized Automatic Reporting on Trunks Testing

The term "Centralized Automatic Reporting on Trunks Testing" denotes a type of testing which includes the capacity for measuring operational and transmission parameters.

Channel(s)

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

Channel Service Unit

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

Channelize

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

C-Message Noise

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

C-Notched Noise

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Coin Station

The term "Coin Station" denotes a location where Telephone Company equipment is provided in a public or semipublic place where Telephone Company customers can originate telephonic communications and pay the applicable charges by inserting coins into the equipment.

Common Line

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

Communications System

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

Customer(s)

The term "Customer(s)" denotes any individual, partnership, association, joint-stock company, trust, corporation, or governmental entity or other entity which subscribes to the services offered under this tariff, including both Interexchange Carriers (ICs) and end users.

Data Transmission (107 Type) Test Line

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

Decibel

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Decibel Reference Noise C-Message Weighting

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

Decibel Reference Noise C-Message Referenced to 0

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

Detail Billing

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

Dual Tone Multifrequency Address Signaling

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

Echo Control

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

Echo Path Loss

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

Echo Return Loss

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Effective 2-Wire

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

Effective 4-Wire

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

End Office Switch

The term "End Office Switch" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to trunks. Included are Remote Switching Modules and Remote Switching Systems served by a host office in a different wire center.

End User

The term "End User" denotes any customer of an intrastate telecommunications service that is not a carrier, except that a carrier shall be deemed to be an "end user" to the extent that such carrier uses a telecommunications service for administrative purposes, without making such service available to others, directly or indirectly.

Entry Switch

See First Point of Switching

Envelope Delay Distortion

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Equal Level Echo Path Loss

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

$$[\text{ELEPL} = \text{EPL} - \text{TLP} (\text{send}) + \text{TLP} (\text{receive})]$$

Expected Measured Loss

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

Exchange

The term "Exchange" denotes a unit generally smaller than a Local Access and Transport Area, established by the Telephone Company for the administration of communications service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated facilities used in furnishing communications service within that area. One or more designated exchanges comprise a given Local Access and Transport Area.

Field Identifier

The term "Field Identifier" denotes two to four characters that are used on service orders to convey specific instructions. Field Identifiers may or may not have associated data. Selected Field Identifiers are used in Telephone Company billing systems to generate nonrecurring charges.

First Come - First Served

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

First Point of Switching

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

Frequency Shift

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

Grandfathered

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

Host Office

The term "Host Office" denotes an electronic switching system which provides call processing capabilities for one or more Remote Switching Modules or Remote Switching Systems.

Immediately Available Funds

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

Impedance Balance

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Impulse Noise

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

Individual Case Basis

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

Inserted Connection Loss

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

Interexchange Carrier (IC) or Interexchange Common Carrier

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

Intermodulation Distortion

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

Intrastate Communications

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

Line-Side Connection

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Local Access and Transport Area

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

Local Tandem Switch

The term "Local Tandem Switch" denotes a local Telephone Company switching unit by which local or access telephonic communications are switched to and from an End Office Switch.

Loop Around Test Line

The term "Loop Around Test Line" denotes an arrangement utilizing a Telephone Company central office to provide a means to make certain two-way transmission tests on a manual basis. This arrangement has two central office terminations, each reached by means of separate telephone numbers and does not require any specific customer premises equipment. Equipment subject to this test arrangement is at the discretion of the customer.

Loss Deviation

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

Message

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

Milliwatt (102 Type) Test Line

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Network Control Signaling

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

Nonsynchronous Test Line

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

North American Numbering Plan

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

Off-hook

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

On-hook

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

Open Circuit Test Line

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

Originating Direction

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Pay Telephone

The term "Pay Telephone" denotes Telephone Company provided instruments and related facilities that are available to the general public for public convenience and necessity, including public and semipublic telephones, and coinless telephones.

Phase Jitter

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

Point of Termination

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

Premises

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

Remote Switching Modules and/or Remote Switching Systems

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

Return Loss

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

Registered Equipment

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Seven Digit Manual Test Line

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

Shortage of Facilities or Equipment

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

Short Circuit Test Line

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

Signal-to-C-Notched Noise Ratio

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

Singing Return Loss

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

Special Order

The term "Special Order" denotes an order for a Billing and Collection Service.

Subscriber Lines

The term "Subscriber Lines" denotes any exchange service lines, Centrex lines, and Centrex-type lines provided by the Telephone Company under its local and/or general exchange service tariff.

Subtending End Office of an Access Tandem

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Synchronous Test Line

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

Terminating Direction

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

Transmission Measuring (105 Type) Test Line/Responder

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

Transmission Path

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

Trunk

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

Trunk Group

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

Trunk-Side Connection

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Two-Wire to Four-Wire Conversion

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

Uniform Service Order Code

The term "Uniform Service Order Code" denotes a three or five character alphabetic, numeric, or an alphanumeric code that identifies a specific item of service or equipment. Uniform Service Order Codes are used in the Telephone Company billing system to generate recurring rates and nonrecurring charges.

V and H Coordinates Method

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

Wire Center

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

3. Carrier Common Line Access Service

The Telephone Company will provide Carrier Common Line Access Service (Carrier Common Line Access) to customers.

3.1 General Description

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

Carrier Common Line Access is provided where the customer obtains Telephone Company Switched Access Service under this tariff.

Switched Access Service provided to (1) ICs under this tariff which furnish intrastate MTS/WATS, (2) An end office converted to equal access, and (3) An end office not yet converted to equal access to customers that do not furnish intrastate MTS/WATS.

3.2 Limitations

- (A) A telephone number is not provided with Carrier Common Line Access.
- (B) Detail billing is not provided for Carrier Common Line Access.
- (C) Directory listings are not included in the rates and charges for Carrier Common Line Access.
- (D) Intercept arrangements are not included in the rates and charges for Carrier Common Line Access.
- (E) All trunk side connections provided in the same combined access group will be limited to the same features and operating characteristics.
- (F) Switched Access Service access minutes which originate from or terminate to a WATS or WATS-like access line will be excluded from the Carrier Common Line access minutes.

3.3 Undertaking of the Telephone Company

- (A) Where the customer is provided with Switched Access Service under other sections of this tariff, the Telephone Company will provide the use of Telephone Company common lines by a customer for access to end users at rates and charges as set forth in 3.7 following.
- (B) Where the customer is reselling MTS/WATS, MTS-type and/or WATS-type service(s), the customer may, at the option of the customer, employ ordinary local business exchange service at generally applicable local business exchange rates under the Telephone Company general and/or local exchange tariffs.

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

3.3 Undertaking of the Telephone Company (Cont'd)

(B) (Cont'd)

Switched Access or Carrier Common Line Access Charges under this tariff will not apply for such access. If the customer wishes to obtain special arrangements such as trunk side service connections for such resale, the customer may, at the option of the customer, obtain Switched Access Service under this tariff as set forth in Section 6 following, except that Carrier Common Line Access charges will not apply for such access.

- (C) When access to the local exchange is required to provide a MTS/WATS-type service using a resold Private Line Service, Switched Access Service Rates and Regulations, as set forth in 6. following will apply. Carrier Common Line Access rates and charges as set forth in 3.7 following apply in accordance with the regulations as set forth in 3.6(F) following.
- (D) Where a multiline hunt group or trunk group arrangement is made up of (1) Feature Group A, B or D Switched Access Service and (2) local exchange business lines or other access arrangements associated with WATS or WATS-like services as provided in 3.3(B) preceding, Carrier Common Line Access Charges for such combined access arrangements are calculated in accordance with the regulations in 3.6(E) following.
- (E) The Switched Access Service provided by the Telephone Company includes the Switched Access Service provided for intrastate communications and the Carrier Common Line Access rates and charges as set forth in 3.7 following apply.
- (F) When the IC is provided Operator Trunk-Coin or Combined Coin and Non-Coin or Operator Trunk-Full Feature Optional Features for sent-paid pay telephone access as set forth in 6. following, the Telephone Company will collect sent-paid monies from pay telephone stations and will remit monies to the IC as set forth in 3.5 following. The Telephone Company will provide message call detail format and bill periods used to determine the monies upon request from the IC.

3.4 Obligations of the Customer

- (A) The Switched Access Service associated with Carrier Common Line Access shall be ordered by the customer under other sections of this tariff.
- (B) The customer facilities at the premises of ordering customer shall provide the necessary on-hook and off-hook supervision.

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

3.4 Obligations of the Customer (Cont'd)

- (C) Where Feature Group C end office switching is provided without Telephone Company recording and the IC records minutes of use which will be used to determine Carrier Common Line Access charges (i.e., Feature Group C operator and TSPS calls such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls), the IC shall furnish such minutes of use detail to the Telephone Company in a timely manner. If the IC does not furnish the data to the Telephone Company, the IC shall identify all Switched Access Services which could carry such calls in order for the Telephone Company to accumulate the minutes of use through the use of special Telephone Company measuring and recording equipment.
- (D) When the customer orders combined access as set forth in 3.3(D) preceding, the customer will be charged the Carrier Common Line Access charges in accordance with the regulations as set forth in 3.6(E) following if the customer or the provider of the WATS service furnishes documentation of the WATS usage and/or the customer furnishes documentation of the WATS-type service. The documentation supplied by the customer shall be supplied each month as set forth in 6.7.3(A) following.
- (E) When the customer orders Switched Access Service as set forth in (D) preceding, the Telephone Company may request when resold WATS is involved, a certified copy of the customer's WATS usage billing from either the customer or the provider of the WATS Service and/or when resold WATS-type service is involved, a certified copy of customer's WATS-type usage billing from the customer. The requests for this billing will relate back no more than 12 months prior to the current billing period.
- (F) Where Operator Trunk-Coin or Combined Coin and Non Coin or Operator Trunk-Full Feature Optional Features for sent-paid pay telephone access is provided to the IC and the IC wishes to receive the monies it is due for the monies collected by the Telephone Company from coin pay telephone stations, the IC shall furnish to the Telephone Company, at a location specified by the Telephone Company, the IC message call detail for the IC sent-paid (coin) pay telephone calls in accordance with the Telephone Company collection schedule. The IC message call detail furnished shall be in a standard format established by the Telephone Company as set forth in 8.2.1(B)(1)(c) following. If no IC message call detail is received from the IC for each bill period established by the Telephone Company, the Telephone Company will assume there were no IC sent-paid (coin) pay telephone calls for the period. In addition the IC shall furnish a schedule of its charges for sent-paid (coin) calls to the Telephone Company at a location and date as specified by the

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

3.4 Obligations of the Customer (Cont'd)

(F) (Cont'd)

Telephone Company. Any change in the IC's schedule of charges shall be furnished to the Telephone Company one day after the change becomes effective.

3.5 Payment of Coin Sent-Paid Monies

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

(A) Bill Period Coin Revenue

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

(B) Total IC Coin Revenue

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

(C) Recourse Adjustments

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

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

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

(C) Recourse Adjustments (Cont'd)

shortage amount by the yearly total coin revenue amount (i.e. total coin revenue equals the coin revenue due under exchange tariffs, state toll tariffs, and interstate toll tariffs). The total coin shortage amount and the total revenue amount will be determined by the Telephone Company through an annual special study.

(D) Payment of Net IC Coin Revenue

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

(E) Audit Provisions

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

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

3.6 Rate Regulations

- (A) The Carrier Common Line Charges will be billed per access minute to each IC Switched Access Service provided under this tariff in accordance with the regulations as set forth in (G) following except as set forth in (E) following.

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

3.6 Rate Regulations (Cont'd)

- (B) The access minutes which are used to determine the charges, will be accumulated using call detail recorded by Telephone Company equipment except as set forth in (C) & (D) following and Feature Group C operator and TSPS call detail such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls recorded by the IC. The Telephone Company measuring and recording equipment except as set forth in (C) and (D) following will be associated with end office or local tandem switching equipment and will record each originating and terminating access minute where answer supervision is received. The accumulated access minutes will be summed by end office for each IC and then rounded to the nearest minute.
- (C) When Carrier Common Line Access is provided in association with MTS-type Feature Groups A and B in Telephone Company end offices that are not equipped for measurement capabilities, an assumed average access minutes will be used to determine the charges. The assumed average access minutes are as follows:
- (1) When a Switched Access Service is provided where neither the originating access minutes nor the terminating access minutes are measured, the assumed average access minutes are 9000 originating and terminating minutes of use for each such Switched Access Service provided.
 - (2) When a Switched Access Service is provided where the terminating access minutes are measured but the originating access minutes are not measured, the assumed average originating access minutes are 4500 originating minutes of use for each such Switched Access Service provided.
 - (3) When a Switched Access Service is provided where the originating access minutes are measured but the terminating access minutes are not measured, the assumed average terminating access minutes are 4500 terminating minutes of use for each such Switched Access Service provided.
- (D) The assumed average access minutes used for FGA FX/ONAL services originating or terminating in end offices where measurement capability is not available are as set forth following:
- (1) Where neither the originating access minutes nor the terminating access minutes are measured, the assumed average intrastate access minutes are 6000 minutes. When originating only Switched Access Service is provided where the originating access minutes are not measured, the

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

3.6 Rate Regulations (Cont'd)

(D) (Cont'd)

originating assumed average access minutes are 6000 minutes and no terminating access minutes will apply. When terminating only Switched Access Service is provided where the terminating access minutes are not measured, the terminating assumed average intrastate access minutes are 6000 minutes and no originating access minutes will apply.

(2) When a Switched Access Service arranged for both originating and terminating use is provided where the terminating access minutes are measured but the originating access minutes are not measured, the assumed average originating access minutes are 3000 originating minutes of use for each such Switched Access Service provided.

(3) When a Switched Access Services arranged for both originating and terminating use is provided where the originating access minutes are measured but the terminating access minutes are not measured, the assumed average terminating access minutes are 3000 terminating minutes of use for each such FX/ONAL FGA provided.

(E) When the customer orders a combined access group as set forth in 3.3(D) preceding subject to the limitations as set forth in 3.2 preceding, and the Telephone Company receives the information furnished as set forth in 3.4(D) preceding, the customer will be billed as set forth in (1), (2) or (3) following. When more than one combined access group is provided in a LATA the billing entity will apportion the resold WATS and/or WATS-type services and originating minutes of use among the combined access groups. Such apportionment will be based on the relationship of the originating usage for each combined access group to the total originating usage for all combined access groups in the LATA.

(1) Combined Access Groups - Non Equal Access Offices Only

When all the usage on a combined access group originates from and/or terminates at end offices in the LATA that have not been converted to equal access, the following regulations apply:

(a) The Access Charge per minute as set forth in 3.7 following will apply. The minutes billed will be all the adjusted terminating intrastate access minutes and the adjusted originating intrastate access minutes for

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

3.6 Rate Regulations (Cont'd)

(E) (Cont'd)

(1) Combined Access Groups - Non Equal Access Offices Only
(Cont'd)

(a) (Cont'd)

such combined Access Groups. The adjusted terminating and originating minutes will be the terminating and originating intrastate access minutes less the reported terminating and originating WATS and/or WATS-type service minutes of use.

(b) One line side Switched Access Service for each resold WATS or WATS-type service reported as set forth in 3.4(D) preceding will be billed local business exchange service as set forth in 6.7.3(B)(1)(a) following.

(c) Any line side Switched Access Service which is not offset as set forth in (b) preceding will be billed Switched Access Service as set forth in 6.7.3(B)(1)(b) following.

(d) Any trunk side Switched Access Service provided will be billed Switched Access Service as set forth in 6.7.3(B)(1)(b) following.

(2) Combined Access Groups - Equal Access Offices Only

When all the usage on a combined access group originates from and/or terminates at end offices in the LATA that have been converted to equal access, the following regulations apply:

(a) The Access Charge per minute as set forth in 3.7 following will apply. The minutes billed will be all the adjusted terminating intrastate access minutes and the adjusted originating intrastate access minutes for such combined Access Groups. The adjusted originating and terminating minutes will be the originating and terminating intrastate access minutes less the reported resold originating and terminating WATS and/or WATS-type service minutes of use.

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

3.6 Rate Regulations (Cont'd)

(E) (Cont'd)

(2) Combined Access Groups - Equal Access Offices Only (Cont'd)

- (b) One line side Switched Access Service for each resold WATS or WATS-type service reported as set forth in 3.4(D) preceding will be billed local business exchange service as set forth in 6.7.3(B)(2)(a) following.
- (c) Any line side Switched Access Service which is not offset as set forth in (b) preceding will be billed Switched Access Service as set forth in 6.7.3(B)(2)(b) following.
- (d) Any trunk side Switched Access Service provided will be billed Switched Access Service as set forth in 6.7.3(B)(2)(b) following.

(3) Combined Access Groups - Non Equal Access and Equal Access Offices

When a MTS/WATS-type FGA or FGB combined access group provided to an entry switch (i.e., dial tone office for FGA and access tandem for FGB) has usage that originates from and/or terminates at both end offices in the LATA that have been converted to equal access and end offices in the LATA that have not been converted, the following regulations apply:

- (a) The Access Charge per minute as set forth in 3.7 following will apply. The minutes billed will be all the adjusted terminating intrastate access minutes and the adjusted originating intrastate access minutes for such combined Access Groups. The adjusted originating and terminating minutes will be the originating and terminating intrastate access minutes less the reported resold originating and terminating WATS and/or WATS-type service minutes of use.
- (b) One line side Switched Access Service for each resold WATS or WATS-type service reported as set forth in 3.4(D) preceding will be billed local business exchange service as set forth in 6.7.3(B)(3)(a) following.

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

3.6 Rate Regulations (Cont'd)

(E) (Cont'd)

(3) Combined Access Groups - Non Equal Access and Equal Access Offices (Cont'd)

- (c) Any line side Switched Access Service which is not offset as set forth in (b) preceding will be billed Switched Access Service as set forth in 6.7.3(B)(3)(a) following.
- (d) Any trunk side Switched Access Service provided will be billed Switched Access Service as set forth in 6.7.3(B)(3)(b).
- (4) The adjustment as set forth in (1), (2) and (3) preceding will be made to the involved customer account no later than either the next bill date, or the one subsequent to that, depending on when the usage report is obtained.
- (5) When the WATS-type and/or WATS usage is shown in hours, the number of hours shall be multiplied by 60 to develop the associated WATS-type and WATS minutes of use. If the WATS-type and/or WATS usage is shown in a unit that does not show hours or minutes, the customer shall provide a factor to convert the shown units to minutes.
- (6) The originating intrastate access minutes for Carrier Common Line Access, adjusted as set forth in (2) or (3) preceding, whichever is appropriate, or any other section of this tariff, that are billed to a customer in a monthly period shall not be less than zero.
- (7) If the required documentation is not received by the Telephone Company, the previously reported information as described in 3.4(D) preceding will be used for the next two months. For any subsequent month, no adjustment or credit will be made until the required documentation is delivered to the Telephone Company by the customer.
- (8) The adjustment as set forth in (1), (2), (3) and (4) preceding will be made to the involved customer account after making the adjustments to the customer account as set forth in (F) following.

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

3.6 Rate Regulations (Cont'd)

- (F) After the adjustment as set forth in (E) preceding or (G) following have been applied, when necessary, to the Switched Access Service access minutes, the charges for the involved customer account will be determined as follows:
- (1) The access minutes for a Feature Group C or D, and for Feature Group B when utilized for the provision of MTS Switched Access Service will be multiplied by the Access Charge per minute rate as set forth in 3.7 following to determine the charges.
 - (2) The access minutes for a Feature Group A or B Switched Access Service originating from or terminating at an end office converted to equal access will be multiplied by the Access Charge per minute rate as set forth in 3.7 following to determine the charges.
 - (3) The access minutes for a FX/ONAL Feature Group A Switched Access Service originating from or terminating at an end office not converted to equal access will be multiplied by the Access Charge per minute rate as set forth in 3.7 following to determine the charges.
 - (4) The access minutes for a MTS type Feature Group A or Feature Group B, except for Feature Group B utilized for the provision of MTS/WATS, Switched Access Service originating from or terminating at an end office not converted to equal access will be multiplied by the Access Charge per minute rate as set forth in 3.7 following.
- (G) When FGA or FGB Switched Access Service provided to an entry switch (i.e., dial tone office for FGA and access tandem for FGB) has usage originating from and/or terminating at both end offices that have been converted to equal access and end offices that have not been converted, the Access Charge per minute rate will apply in the following manner:
- (1) All access minutes that originate from or terminate at the equal access end office(s) will be billed at the Access Charge per minute rates. Access minutes that originate from or terminate at end offices not equipped with equal access capabilities will also be billed at the Access Charge per minute rate.

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

3.6 Rate Regulations (Cont'd)

(G) (Cont'd)

(2) Access minutes are to be rated as follows:

- (a) Where end office specific usage data is available, the Access per minute premium rates apply to the measured access minutes originating from or terminating at the equal access end office(s).
- (b) Where end office specific usage data is not available for originating FGA Service, the total originating usage measured at the entry switch will be developed in the following manner. First, develop the ratio of the number of subscriber lines in the local calling area of the entry switch that are served by equal access end offices to the total number of subscriber lines in that local calling area. Then apply this ratio to the total number of originating access minutes to determine the usage to be billed at FGA Access per minute rates, unless adjusted as set forth in (c) following. The local calling area of the entry switch is as defined in the Telephone Company's local and/or general exchange service tariff.

The ratio used to determine the FGA usage will be updated on a quarterly basis.

- (c) Where FGD Switched Access Service is provided to a customer in an end office(s) where originating FGA access minutes have been determined in accordance with (b) preceding, such originating FGA access minutes will be adjusted in the following manner. For each FGD access minute originating from that end office, the originating FGA access minutes will be reduced on a one for one basis, but in no event shall the reduction exceed the total number of FGA access minutes originating from that end office. The customer will be billed for the revised number of originating FGA access minutes.

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

3.6 Rate Regulations (Cont'd)

(G) (Cont'd)

(3) Where originating and terminating recording capability does not exist for MTS/WATS-type FGA or FGB provided to an entry switch, the number of access minutes will be assumed to be 9000 access minutes per line or trunk, regardless of whether the line or trunk is arranged for one way or two way calling. Where recording capability exists for either originating or terminating usage, but not both, on a line or trunk arranged for two way calling, the number of access minutes per line or trunk will be an assumed 9000 or the recorded usage, whichever is greater.

(H) After the adjustments as set forth preceding have been applied, when necessary, to the Carrier Common Line Access access minutes, the charges for the involved customer account will be determined as follows:

(1) The adjusted access minutes for an Interexchange Carrier will be multiplied by the Charge as set forth in 3.7 following to determine the charges.

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

The customer will have the choice of converting existing services to equal access (i.e., Feature Group D) at no charge or retaining the existing services. Rates will apply to the total access minutes beginning on the actual conversion date, whether the customer chooses to convert to FGD or retain existing services.

Northwestern Bell
Telephone Company
State of North Dakota
Issued: November 15, 1985

ACCESS
SERVICE TARIFF

Section 3
Original Sheet 14
Effective: January 1, 1986

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

3.7 Rates and Charges

The rate for Carrier Common Line
effective January 1, 1986 is:

	<u>Rate</u>
Access Minute, each	\$0.0299

Northwestern Bell
Telephone Company
State of North Dakota
Issued: November 15, 1985

ACCESS
SERVICE TARIFF

Section 4
Original Sheet 1
Effective: January 1, 1986

4. End User Access Service

End User Access Service is not applicable to the State of North Dakota.

5. Ordering Options for Switched and Special Access Service

5.1 General

This section sets forth the regulations and order related charges for Access Orders for Switched and Special Access Services. These charges are in addition to other applicable charges as set forth in other sections of this tariff.

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

5.1.1 Ordering Conditions

A customer may order any number of services of the same type and between the same premises on a single Access Order. All details for services for a particular order must be identical except for those for multipoint service.

The customer shall provide all information necessary for the Telephone Company to provide and bill for the requested service. In addition to the order information required in 5.2 following, the customer must also provide:

- Customer name and premises address(es).
- Billing name and address (when different from customer name and address).
- Customer contact name(s) and telephone number(s) for the following provisioning activities: order negotiation, order confirmation, interactive design, installation and billing.

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

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

The order date, which is known as the Application Date, is the date on which the Telephone Company receives a firm commitment and sufficient information from the customer to allow processing of the Access Order. The customer is advised of the Application Date at the time the Telephone Company gives the customer a firm order confirmation.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.1 General (Cont'd)

5.1.2 Provision of Other Services

- (A) Testing Service, Additional Labor, Restoration Priority and Special Facilities Routing shall be ordered with an Access Order or as set forth in (B) following. The rates and charges for these services, as set forth in other sections of this tariff, will apply in addition to the ordering charges set forth in this section and the rates and charges for the Access Service with which they are associated.
- (B) With the agreement of the Telephone Company, the items listed in (A) preceding may subsequently be added to the order at any time, up to and including the service date for the Access Service. When added subsequently, charges for a design change as set forth in 5.2.2(C) following will apply, when an engineering review is required.
- (C) Additional Engineering is not an ordering option, but will be applied to an Access Order when the Telephone Company determines Additional Engineering is necessary to accommodate a customer request. Additional Engineering will only be required as set forth in 13.1 following. When it is required, the customer will be so notified and will be furnished with a written statement setting forth the justification for the Additional Engineering as well as an estimate of the charges. If the customer agrees to the Additional Engineering, a firm order will be established. If the customer does not want the service or facilities after being notified that Additional Engineering of Telephone Company facilities is required, the order will be withdrawn and no charges will apply. Once a firm order has been established, the total charge to the customer for the Additional Engineering may not exceed the estimated amount by more than 10%.

5.1.3 Special Construction

The regulations, rates and charges for special construction are set forth in the Northwestern Bell Telephone Company Special Construction Tariff and are in addition to the regulations, rates and charges specified in this section.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order

An Access Order is used by the Telephone Company to provide to a customer Access Service as follows:

- Switched Access Services as set forth in 6. following,
- Special Access Services as set forth in 7. following, and
- Other Services as set forth in 5.1.2 preceding.

When placing an order for Access Service, the customer shall provide, at a minimum, the following information:

- For Feature Group A Switched Access Services, the customer shall specify the number of lines and the first point of switching (i.e., dial tone office), the local transport options and the Local Switching options desired. In addition, the customer shall specify whether the ordered line(s) is for FX/ONAL service or MTS/WATS-type service. If the customer specifies MTS/WATS-type service, it shall also specify which lines are to be arranged in multiline hunt group arrangements and which lines are to be provided as single lines.
- The customer shall also specify that the FX/ONAL Feature Group A is to be provided with an extension to a different LATA, if applicable. When such an extension is specified on the order, the customer must also specify the customer's premises in the LATA with the Switched Access Feature Group A, at which the FGA extension is to be terminated.
- 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 or the access tandem switch when routing is desired via an access tandem switch and Local Transport options and Local Switching options desired. When ordering FGB trunks to an access tandem, the customer must also provide the Telephone Company an estimate of the amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Telephone Company in its own efforts to project further facility requirements. 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. The basic traffic type must also be specified using the same categories as described in 6.1.1(E) following, to enable efficient provisioning and billing functions.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

- For Feature Group C and D Switched Access Service, the customer shall specify the number of busy hour minutes of capacity (BHMC) from the customer's premises to the end office by Feature Group and by type of BHMC. This information is used to determine the number of transmission paths as set forth in 6.5.5 following. The customer then specifies the Local Transport and Local Switching options.

Customers other than AT&T may, at their option, order FGD by specifying the number of trunks and the end office when direct routing to the end office is desired or the access tandem when routing is desired via an access tandem switch and the Local Transport and Local Switching options desired. When ordering by trunk quantities rather than BHMC quantities to an access tandem, the customer must also provide the Telephone Company an estimate of the amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Telephone Company in its own efforts to project future facility requirements. The basic traffic type must also be specified using the same categories as described in 6.1.1(E) following, to enable efficient provisioning and billing functions.

When a customer orders FGD in trunks, the customer is responsible to assure that sufficient access facilities have been ordered to handle its traffic. When a customer orders in BHMC quantities, the Telephone Company assumes the traffic engineering responsibility and will determine the facilities required to meet the customer's BHMC requirement. Since only one party can carry out the requisite engineering, a customer cannot order some FGD Access in BHMC and other FGD Access in trunks in the same LATA. If a customer wishes to convert its ordering basis in the LATA from trunks to BHMC or BHMC to trunks, the Telephone Company will work cooperatively with the customer to make the conversion. There will be no charge for this conversion activity.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

The WATS Access Line optional feature may be ordered separately by a customer other than the customer which orders the FGC or FGD Switched Access Service. However, such WATS Access Lines must be ordered for use with FGC or FGD Switched Access Service. When ordering the WATS Access Line optional feature, the customer shall specify the customer's premises at which the WATS Access Line terminates, the type of line (i.e., two-wire or four-wire), the type of calling (i.e., originating or terminating) and the type of Supervisory Signaling. When the necessary screening functions are not provided at the wire center which serves the customer's end user originating or terminating premises, the Telephone Company will use the nearest wire center premises where the screening capacity exists.

The customer must also specify that the WATS Access Line is to be provided with an extension in the same or different LATA, if applicable. When such an extension is specified in the order, the customer must also specify either (1) the end user premises in the LATA (for an intraLATA extension) or (2) the customer's premises (for an extension in a different LATA) to which such extension is to be provided.

When a customer desires Switched Access Service to an end office that is a remote switching office, the customer must order to the host office which controls the remote switching office since all traffic to and/or from a remote switching office must be routed through the host office.

- For all Special Access Services, the customer must specify the customer premises or Hubs involved, the type of service (e.g., Narrowband, Voice Grade, High Capacity, etc.), the channel interface, technical specification package and options desired. For multipoint services, the channel interface at each premises may, at the request of the customer, be different but all such interfaces shall be compatible.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

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

5.2.1 Access Order Service Date Intervals

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

- Standard Interval
- Negotiated Interval

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

(A) Standard Interval

The Telephone Company shall make available to all customers upon request, a schedule of Standard Intervals applicable for Switched and Special Access Services. The schedule shall specify the services and the quantities of service that can be provided in the Standard Intervals.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.1 Access Order Service Date Intervals (Cont'd)

Access Services provided in a Standard Interval will be installed during Telephone Company business days. If a customer requests that installation be done outside of normally scheduled work hours, and the Telephone Company agrees to this request, the customer will be subject to applicable Additional Labor Charges as set forth in 13.2.6 (A) following.

(B) Negotiated Interval

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

- (1) There is no Standard Interval for the service, or
- (2) The quantity of Access Services ordered exceeds the quantities specified in the standard intervals described in 5.4 following, or
- (3) The customer requests a service date before or beyond the applicable Standard Interval service date.

The Telephone 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 Telephone Company offered service date.

All services for which rates are applied on an individual case basis are provided with a Negotiated Interval.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.2 Access Order Modifications

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

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

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

(A) Service Date Change Charge

Access Order service dates may be changed, but the new service date may not exceed the original service date by more than 30 calendar days. If the customer requested service date is more than 30 calendar days after the original service date, the order will be cancelled by the Telephone Company and reissued with the appropriate cancellation charges applied. If the Telephone Company determines it can accommodate the customer's request without delaying service dates of orders for other customers, a new service date may be established that is prior to the original standard or negotiated interval service date.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

(A) Service Date Change Charge (Cont'd)

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

A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The applicable charge is:

	<u>USOC</u>	<u>Charge</u>
Service Date Change Charge, per order	OMC	\$21.00

(B) Partial Cancellation Charge

Any decrease in the number of ordered Special Access Service channels or Switched Access Service lines, Trunks or busy hour minutes of capacity will be treated as a partial cancellation and the charges as set forth in 5.2.3(B) following will apply.

(C) 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. An engineering review is a review, by Telephone Company personnel, of the service ordered and the requested changes to determine what change in the design, if any, are necessary to meet the changes requested by the customer. Design changes include such things as the addition or deletion of optional features or functions or a change in the type of Transport Termination (Switched Access only), type of channel interface, type of Interface Group or technical specification package. Design changes do not include a change of customer premise, End User Premises, end office switch, Feature Group type or Special Access Service channel type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

(C) Design Change Charge (Cont'd)

The Telephone Company will review the requested change, notify the customer whether the change is a design change, if it can be accommodated and if a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge will apply. The Design Change Charge will apply on a per order, per occurrence basis. The applicable charge is:

	<u>USOC</u>	<u>Charge</u>
Design Change Charge, per order	H28	\$31.00

If a change of service date is required, the Service Date Change Charge as set forth in (A) preceding will also apply.

(D) Expedited Order Charge

When placing an Access Order, 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 or negotiated interval Access Order. If the Telephone Company determines that service can be provided on the requested date and that additional labor cost or extraordinary costs are required to meet the requested service date, the customer will be notified and will be provided with an estimate of the additional charges involved. Such additional charges will be determined and billed to the customer as follows:

To calculate the additional labor charges, the Telephone Company will, upon authorization from the customer to incur the additional labor charges, keep track of the additional labor hours used to meet the request of the customer and will bill the customer at the Additional Labor charges as set forth in 13.2.6(A) following.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

(D) Expedited Order Charge (Cont'd)

To authorize, develop, determine and bill the customer the extraordinary costs which may be involved, the special construction terms and conditions as set forth in the Northwestern Bell Telephone Company Special Construction Tariff will be used by the Telephone Company.

When the request for expediting occurs subsequent to the issuance of the Access Order, a Service Date Change Charge as set forth in (A) preceding also applies.

5.2.3 Cancellation of an Access Order

(A) A customer may cancel an Access Order for the installation of service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the order is to be cancelled. 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 cancelled and charges set forth in (B) following will apply, or
- Billing for the service will commence.

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

(B) When a customer cancels an Access Order for the installation of service, a Cancellation Charge will apply as follows:

- (1) When the customer cancels an Access Order prior to the Scheduled Issue Date, as defined in (4)(b) following, no charges shall apply.
- (2) When the customer cancels an Access Order on or after the Scheduled Issue Date, a charge equal to the estimated costs incurred by the Telephone Company shall apply. Such charge is determined as specified in (4) following.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.3 Cancellation of an Access Order (Cont'd)

(B) (Cont'd)

(3) Charges applicable as specified in (2) preceding are based on the estimated costs incurred by the Telephone Company at the time the order is cancelled. The estimated costs incurred are determined based on the following:

(a) Certain Telephone Company critical dates are associated with an Access Order provisioning interval, whether standard or negotiated. These dates are used by the Telephone Company to monitor the progress of the provisioning process. At any point in the Access Order interval the Telephone Company is able to determine which critical date was last completed and can thus determine what percentage of the Telephone Company's provisioning costs have been incurred as of that critical date.

(b) The critical dates tracked by the Telephone Company are as follows:

- Scheduled Issue Date (SID): The date that the order is to be entered in the Telephone Company order distribution system.
- Records Issue Date (RID): The date that all design and assignment information is to be sent to the central office and installation forces.
- Wired and Office Tested Date (WOT): The date by which all intraoffice wiring is to be completed, all plug-ins optioned, aligned, and frame continuity established, and the interoffice facilities, if applicable, tested. In addition, switching equipment, including translation loading, is to be installed and tested.
- Service Date (DD): The date on which service is to be made available to the customer. This is sometimes referred to as the Due Date.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.3 Cancellation of an Access Order (Cont'd)

(B) (Cont'd)

(3) (Cont'd)

(c) The percentage of the total provisioning cost incurred by the Telephone Company at a particular critical date varies by the type of service as shown in (d) following.

(d) When a customer cancels an Access Order, or part of an Access Order, before the service date, the Telephone Company will apply cancellation charges to the order by multiplying all the nonrecurring charges associated with the order, or that part of the order being cancelled, by the percentage shown following for the critical date last completed on the order:

	<u>SID</u>	<u>RID</u>	<u>WOT</u>	<u>DD</u>
FGA	25%	70%	99%	100%
FGB	25%	70%	99%	100%
FGC	25%	70%	99%	100%
FGD	25%	70%	99%	100%
WAL	25%	70%	99%	100%
MT	17%	33%	46%	100%
TG	14%	30%	57%	100%
VG	14%	29%	55%	100%

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.4 Selection Of Facilities For Access Orders

- (A) When there are analog or digital high capacity facilities to a Hub on order or in service for the customer's use, the customer may request a specific channel or transmission path be used to provide the Switched or Special Access Service requested in an Access Order. The Telephone Company will make a reasonable effort to accommodate the customer request.
- (B) For all other Access Orders, the option to request a specific transmission path or channel is not provided except as provided for under Special Facilities Routing as set forth in 11. following.

5.2.5 Minimum Period

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

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

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

- (A) For Switched Access Service, the charge for a month or fraction thereof is equal to the applicable minimum monthly charge for the capacity as set forth in 6.7.4 following.
- (B) For Special Access Service, the charge for a month or fraction thereof is the applicable monthly rates for the service as set forth in 7.5 following.

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.6 Minimum Period Charges

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

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

- (A) For Switched Access Service, the charge for a month or fraction thereof is equal to the applicable minimum monthly charge for the capacity as set forth in 6.7.4 following.
- (B) For Special Access Service, the charge for a month or fraction thereof is the applicable monthly rates for the service as set forth in 7.5 following.

The Minimum Period Charge for part-time Television and Program Audio Services is the applicable daily rate for the service as set forth in 7.5 following.

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

5.2.7 Shared Use Facilities

Shared Use (i.e., Switched and Special Access Services provided over the same analog or digital high capacity facilities) is allowed. Shared use facilities to a Hub will be ordered and provided as Special Access Service. While shared use is allowed, individual services utilizing these facilities must be ordered either as Switched Access Service or Special Access Service. When placing the order for the individual service(s), the customer must specify a channel assignment for each service ordered.

6. Switched Access Service

6.1 General

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a two-point communications path between a customer's premises and an end user's premises. It provides for the use of common terminating, switching and trunking facilities, and both common subscriber plant and unshared subscriber plant (i.e., WATS access lines) of the Telephone Company. Switched Access Service provides for the ability to originate calls from an end user's premises to a customer's premises, and to terminate calls from a customer's premises to an end user's premises in the LATA where it is provided. Specific references to material describing the elements of Switched Access Service are provided in 6.1.1 and 6.1.2 following.

Rates and charges for Switched Access Service depend generally on its use by the customer, i.e., for MTS or WATS services, MTS-WATS equivalent services, or other services (e.g., foreign exchange service), and whether it is provided in a Telephone Company end office that is equipped to provide equal access (Feature Group D Access, described in 6.1.1(D) following). Rates and charges for Switched Access Service are set forth in 6.8 following. The application of rates for Switched Access Service is described in 6.7 following. Rates and charges for services other than Switched Access Service, e.g., a customer's interLATA toll message service, may also be applicable when Switched Access Service is used in conjunction with these other services. Some descriptions of such applicability are provided in 6.2.1(A)(7), 6.2.1(B)(4), 6.2.2(A)(5), 6.2.2(B)(4), 6.2.3(A)(5), 6.2.4(A)(4), 6.7.10 and 6.7.12 following. Finally, a credit is applied against line side Switched Access Service charges as described in 6.7.11 following.

6.1.1 Feature Group Arrangements and Manner of Provision

Switched Access Service is provided in four service categories of standard and optional features called Feature Groups. These are differentiated by their technical characteristics, e.g., line side vs. trunk side connection at the Telephone Company entry switch, and the manner in which an end user accesses them in originating calling, e.g., with or without an access code. Following is a brief description of each Feature Group arrangement.

(A) Feature Group A (FGA)

FGA Access, which is available to all customers, provides line side access to Telephone Company end office switches with an associated seven digit local telephone number for the customer's use in originating communications from and

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

(A) Feature Group A (FGA) (Cont'd)

terminating communications to an Interexchange Carrier's Intrastate Service or a customer-provided intrastate communications capability. The customer must specify the InterLATA Interexchange Carrier to which the FGA Service is connected or, in the alternative, specify the means by which the FGA access communications is transported to another LATA. A more detailed description of FGA Access is provided in 6.2.1 following.

(B) Feature Group B (FGB)

FGB Access, which is available to all customers, provides trunk side access to Telephone Company end office switches with an associated uniform 950-10XX access code for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's Intrastate Service or a customer-provided intrastate communications capability. The customer must specify the InterLATA Interexchange Carrier to which the FGB Service is connected or, in the alternative, specify the means by which the FGB access communications is transported to another LATA. A more detailed description of FGB Access is provided in 6.2.2 following.

(C) Feature Group C (FGC)

FGC Access, which is available only to providers of MTS and WATS, provides trunk side access to Telephone Company end office switches for the customer's use in originating and terminating communications. This service is available in all end offices which are not equipped for Feature Group D End Office Switching. Existing FGC Access will be converted to Feature Group D Access when it becomes available in an end office. The WATS Access Line optional feature set forth in 6.2.3(A)(7) may be ordered separately by a customer other than the customer which orders the FGC Switched Access Service (i.e., a provider of MTS and WATS). WATS Access Lines are ordered as set forth in 5.2 preceding. A more detailed description of FGC Access is provided in 6.2.3 following.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

(D) Feature Group D (FGD)

FGD Access, which is available to all customers, provides trunk side access to Telephone Company end office switches with an associated uniform 10XXX access code for the customer's use in originating and terminating communications. The WATS Access Line optional feature set forth in 6.2.4(A)(8) may be ordered separately by a customer other than the customer which orders the FGD Switched Access Service. WATS Access Lines are ordered as set forth in 5.2 preceding. A more detailed description of FGD Access is provided in 6.2.4 following.

(E) Manner of Provision

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

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

There are two major BHMC categories identified as: Originating and Terminating. Originating BHMCs represent access capacity within a LATA for carrying traffic from the end user to the customer; and, Terminating BHMCs represent access capacity within a LATA for carrying traffic from the customer to the end user. When ordering capacity for FGC Access or FGD Access, the customer must at a minimum specify such access capacity in terms of Originating BHMCs and/or Terminating BHMCs.

Because some customers will wish to further segregate their originating traffic into separate trunk groups, Originating BHMCs are further categorized into Domestic, 800, and Operator. Domestic BHMCs represent access capacity for carrying only domestic traffic other than 800 and Operator traffic and, 800 and Operator BHMCs

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

(E) Manner of Provision (Cont'd)

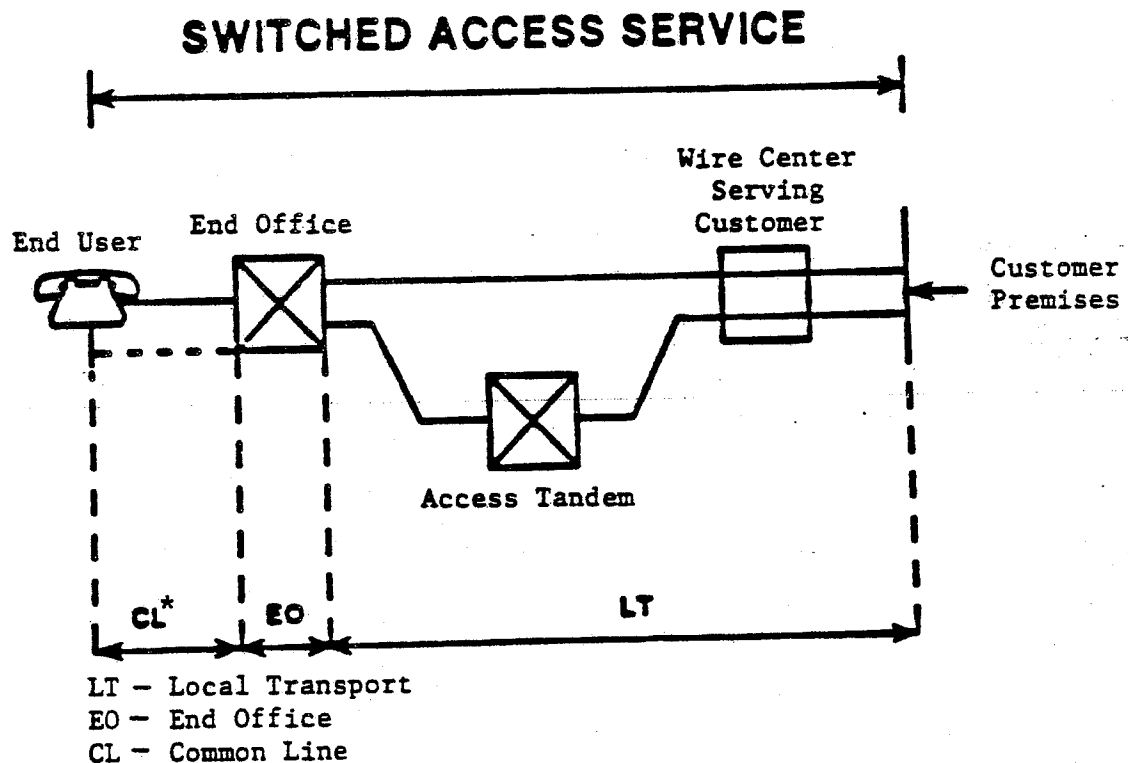
represent access capacity for carrying, respectively, only 800 or Operator traffic. When ordering such types of access capacity, the customer must specify Domestic, 800 or Operator BHMCS.

6.1.2 Rate Categories

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

- Local Transport (described in 6.1.2(A) following)
- End Office (described in 6.1.2(B) following)
- Common Line (described in Section 3. and 4. preceding)

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



* Common Line Access is provided under Sections 3. and 4. preceding.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport

The Local 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 the customer's communications. For purposes of determining Local Transport mileage, distance will be measured from the wire center that normally serves the customer's premises to the end office switch(es). Exceptions to the mileage measurement rules are set forth in 6.7.13 following.

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

The Telephone Company will work cooperatively with the customer in determining (1) whether the service is to be directly routed to an end office switch or through an access tandem switch, and (2) the directionality of the service.

Local Transport is provided at the rates and charges set forth in 6.8.1 following. The application of these rates is as set forth in 6.7.1(D) following.

(1) Interface Groups

Ten Interface Groups are provided for terminating the Local Transport at the customer's premises. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.).

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

Where transmission facilities permit, the individual transmission path between the customer's premises and the first point of switching may at the option of the customer be provided with optional features as set forth in (2)(a), (b) and (c) following.

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer's premises, the need for signaling conversions or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Telephone Company equipment be placed at the customer's premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer's premises are digital, then Telephone Company channel bank equipment must be placed at the customer's premises in order to provide the voice frequency interface ordered by the customer.

Interface Group 1 is provided with Type C Transmission Specifications, and Interface Groups 2 through 10 are provided with Type A or B Transmission Specifications, depending on the Feature Group and whether the Access Service is routed directly or through an access tandem. All Interface Groups are provided with Data Transmission Parameters.

Only certain premises interfaces are available at the customer's premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups. The various premises interfaces which are available with the Interface Groups, and the Feature Groups with which they may be used, are set forth in (1)(k) following.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(a) Interface Group 1 (USOC TPP1X)

Interface Group 1, except as set forth in (b) following, provides two-wire voice frequency transmission at the point of termination at the customer's premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Interface Group 1 is not provided in association with FGC and FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB, FGC or FGD when the first point of switching provides only four-wire terminations.

The transmission path between the point of termination at the customer's premises and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(b) Interface Group 2 (USOC TPP2X)

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer's premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The transmission path between the point of termination at the customer's premises and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(c) Interface Group 3 (USOC TPP3X)

Interface Group 3 provides group level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 60 to 108 kHz, with the capability to channelize up to 12 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(c) Interface Group 3 (USOC TPP3X) (Cont'd)

switching, the Telephone Company will provide multiplex equipment to derive 12 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with individual transmission path SF supervisory signaling.

(d) Interface Group 4 (USOC TPP4X)

Interface Group 4 provides supergroup level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 312 to 552 kHz, with the capability to channelize up to 60 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 60 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with individual transmission path SF supervisory signaling.

(e) Interface Group 5 (USOC TPP5X)

Interface Group 5 provides mastergroup level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 564 to 3084 kHz, with the capability to channelize up to 600 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(e) Interface Group 5 (USOC TPP5X) (Cont'd)

Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 600 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with individual transmission path SF supervisory signaling.

(f) Interface Group 6 (USOC TPP6X)

Interface Group 6 provides DS1 level digital transmission at the point of termination at the customer's premises. 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 paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive 24 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, a DS1 signal in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(g) Interface Group 7 (USOC TPP7X)

Interface Group 7 provides DS1C level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 3.152 Mbps, with the capability to channelize up to 48 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 48 voice frequency transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

(h) Interface Group 8 (USOC TPP8X)

Interface Group 8 provides DS2 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 6.312 Mbps, with the capability to channelize up to 96 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment in its office to derive up to 96 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(h) Interface Group 8 (USOC TPP8X) (Cont'd)

The interface is provided with individual transmission path bit stream supervisory signaling.

(i) Interface Group 9 (USOC TPP9X)

Interface Group 9 provides DS3 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 672 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

(j) Interface Group 10 (USOC TPPAX)

Interface Group 10 provides DS4 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 274.176 Mbps, with the capability to channelize up to 4032 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(j) Interface Group 10 (USOC TPPAX) (Cont'd)

up to 4032 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

(k) Available Premises Interface Codes

Following is a matrix showing, for each Interface Group, which premises interface codes are available as a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see the Glossary of Channel Interface Codes in 7.3 following.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(k) Available Premises Interface Codes (Cont'd)

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group</u>			
			<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
1	LO	2LS2	X			
	LO	2LS3	X			
	GO	2GS2	X			
	GO	2GS3	X			
	LO, GO	2DX3	X			
	LO, GO	4EA3-E	X			
	LO, GO	4EA3-M	X			
	LO, GO	6EB3-E	X			
	LO, GO	6EB3-M	X			
	RV, EA, EB, EC	2DX3		X	X	X
	RV, EA, EB, EC	4EA3-E		X	X	X
	RV, EA, EB, EC	4EA3-M		X	X	X
	RV, EA, EB, EC	6EB3-E		X	X	X
	RV, EA, EB, EC	6EB3-M		X	X	X
	EA, EB, EC	6EC3			X	X
	RV	2RV3-O		X	X	X
	RV	2RV3-T		X	X	X
2	LO, GO	4SF2	X			
	LO, GO	4SF3	X			
	LO	4LS2	X			
	LO	4LS3	X			
	LO	6LS2	X			
	GO	4GS2	X			
	GO	4GS3	X			
	GO	6GS2	X			
	LO, GO	4DX2	X			
	LO, GO	4DX3	X			
	LO, GO	6EA2-E	X			
LO, GO	6EA2-M	X				
LO, GO	8EB2-E	X				

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(k) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company		Premises Interface Code	Feature Group				
	Switch	Supervisory Signaling		A	B	C	D	
2 (Cont'd)	LO, GO		8EB2-M	X				
	LO, GO		6EX2-B	X				
	RV, EA, EB, EC		4SF2		X	X	X	
	RV, EA, EB, EC		4SF3		X			
	RV, EA, EB, EC		4DX2		X	X	X	
	RV, EA, EB, EC		4DX3		X			
	RV, EA, EB, EC		6DX2			X		
	RV, EA, EB, EC		6EA2-E		X	X	X	
	RV, EA, EB, EC		6EA2-M		X	X	X	
	RV, EA, EB, EC		8EB2-E		X	X	X	
	RV, EA, EB, EC		8EB2-M		X	X	X	
	EA, EB, EC		8EC2-M			X	X	
	RV		4RV2-O		X	X	X	
	RV		4RV2-T		X	X	X	
	RV		4RV3-O		X	X		
	RV		4RV3-T		X	X		
	3	LO, GO		4AH5-B	X			
		RV, EA, EB, EC		4AH5-B		X	X	X
	4	LO, GO		4AH6-C	X			
		RV, EA, EB, EC		4AH6-C		X	X	X
5	LO, GO		4AH6-D	X				
	RV, EA, EB, EC		4AH6-D		X	X	X	
6	LO, GO		4DS9-15	X				
	LO, GO		4DS9-15L	X				
	RV, EA, EB, EC		4DS9-15		X	X	X	
	RV, EA, EB, EC		4DS9-15L		X	X	X	

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(k) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group			
			A	B	C	D
7	LO, GO	4DS9-31	X			
	RV, EA, EB, EC	4DS9-31		X	X	X
	LO, GO	4DS9-31L	X			
	RV, EA, EB, EC	4DS9-31L		X	X	X
8	LO, GO	4DS0-63	X			
	LO, GO	4DS0-63L	X			
	RV, EA, EB, EC	4DS0-63		X	X	X
	RV, EA, EB, EC	4DS0-63L		X	X	X
9	LO, GO	4DS6-44	X			
	LO, GO	4DS6-44L	X			
	RV, EA, EB, EC	4DS6-44		X	X	X
	RV, EA, EB, EC	4DS6-44L		X	X	X
10	LO, GO	4DS6-27	X			
	LO, GO	4DS6-27L	X			
	RV, EA, EB, EC	4DS6-27		X	X	X
	RV, EA, EB, EC	4DS6-27L		X	X	X

(2) Optional Features

Where transmission facilities permit, the Telephone Company will, at the option of the customer, provide the following optional features in association with Local Transport.

(a) Supervisory Signaling

Where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability, the customer may order an optional supervisory signaling arrangement for each transmission path provided as follows:

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(2) Optional Features (Cont'd)

(a) Supervisory Signaling (Cont'd)

- For Interface Groups 1 and 2

DX Supervisory Signaling,
E&M Type I Supervisory Signaling,
E&M Type II Supervisory Signaling, or
E&M Type III Supervisory Signaling

- For Interface Group 2

SF Supervisory Signaling, or
Tandem Supervisory Signaling

- For Interface Groups 6 through 10

These Interface Groups may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling is available in Telephone Company central offices. Generally such signaling is available only where the entry switch provides an analog, i.e., non-digital, interface to the transport termination.

(b) Customer Specified Entry Switch Receive Level

This feature allows the customer to specify the receive transmission level at the first point of switching. The range of transmission levels which may be specified is described in Technical Reference PUB 62500. This feature is available with Interface Groups 2 through 10 for Feature Groups A and B.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(2) Optional Features (Cont'd)

(c) Customer Specification of Local Transport Termination

This option allows the customer to specify, for Feature Group B routed directly to an end office or access tandem, a four-wire termination of the Local Transport at the entry switch in lieu of a Telephone Company selected two-wire termination. This option is available only when the Feature Group B arrangement is provided with Type B Transmission Specifications.

(B) End Office

The End Office rate category provides the local end office switching and end user termination functions necessary to complete the transmission of Switched Access communications to and from the end users served by the local end office. The End Office rate category includes the Local Switching, Line Termination and Intercept rate elements.

(1) Local Switching

The Local Switching rate element provides for the use of end office switching equipment. It is divided into two distinct categories, i.e., LS1 and LS2. The first category, LS1, provides local dial switching for Feature Group A. The second category, LS2, provides local dial switching for Feature Groups B, C and D.

Rates for LS1 and LS2 are set forth in 6.8.2(A) following. The application of these rates is set forth in 6.7.1(D) following.

There are two types of local switching functions, i.e., Common Switching functions and Transport Termination functions. These are described in (a) and (b) following.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

(a) Common Switching

Common Switching provides the local end office switching functions associated with the various access (i.e., Feature Group) switching arrangements. The Common Switching arrangements provided for the various Feature Group arrangements are described in 6.2 following.

Included as part of Common Switching are various optional features which the customer can order to meet the customer's specific communications requirements. These optional features are described in 6.3.1 following.

(b) Transport Termination

Transport Termination provides for the line or trunk side arrangements which terminate the Local Transport facilities. Included as part of Transport Termination are various optional termination arrangements. These optional terminating arrangements are described in 6.3.2 following.

The number of Transport Terminations provided will be determined by the Telephone Company as set forth in 6.5.6 following.

(2) Line Termination

The Line Termination rate element provides the terminations for the end user lines terminating in the local end office. There are two types of Line Terminations, i.e., Common Line Terminations and WATS Access Line Terminations.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(2) Line Termination (Cont'd)

The WATS Access Line Terminations are differentiated by line side vs. trunk side terminations. In addition, there are various types of originating and terminating line side terminations depending on the type of signaling associated with the WATS Access Line. Line side terminations are available with either dial pulse or dual tone multifrequency address signaling.

Line Termination rates are set forth in 6.8.2(B) following. The application of these rates is as set forth in 6.7.1(D) following.

(3) Intercept

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

Intercept rates are assessed to a customer based on the total number of access minutes. Intercept rates are set forth in 6.8.2(C) following. The application of these rates is as set forth in 6.7.1(D) following.

The number of end office switching transmission paths will be determined as set forth in 6.5.5 following.

6.1.3 Special Facilities Routing

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

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.4 Design Layout Report

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

6.1.5 Acceptance Testing

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

6.1.6 Ordering Options and Conditions

Switched Access Service is ordered under the Access Order provisions set forth in 5. preceding. Also, included in that section are other charges which may be associated with ordering Switched Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups

Switched Access Service is provided in four different Feature Group arrangements. The provision of each Feature Group requires Local Transport facilities and the appropriate End Office functions. In addition, WATS Access Lines may, at the option of the customer, be provided with Feature Groups C and D.

There are three specific transmission specifications (i.e., Types A, B and C) that have been identified for the provision of Feature Groups. The specifications provided are dependent on the Interface Group and the routing of the service, i.e., whether the service is routed directly to the end office or via an access tandem. The parameters for the transmission specifications are set forth in 6.4.1 following.

Feature Groups are arranged for either originating, terminating or two-way calling, based on the customer end office switching capacity ordered. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the customer's premises. Terminating calling permits the delivery of calls from the customer's premises to Telephone Exchange Service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. The Telephone Company will determine the type of calling to be provided unless the customer requests that a different type of directional calling is to be provided. In such cases, the Telephone Company will work cooperatively with the customer to determine the directionality.

There are various chargeable and nonchargeable optional features available with the Feature Groups. These additional optional features are provided as Local Transport, Common Switching or Transport Termination options.

Following are detailed descriptions of each of the available Feature Groups. Each Feature Group is described in terms of its specific physical characteristics and calling patterns, the transmission specifications with which it is provided, the optional features available for use with it and the standard testing capabilities.

The Common Switching and Transport Termination optional features, which are described in 6.3 following, unless specifically stated otherwise, are available at all Telephone Company end office switches.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.1 Feature Group A (FGA)

(A) Description

- (1) FGA is provided in connection with Telephone Company electronic and electromechanical end offices. At the option of the customer, FGA is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling. FGA is arranged for use by the customer in the provision of its FX/ONAL service or MTS/WATS-type service.
- (2) FGA provides a line side termination at the first point of switching. The line side termination will be provided with either ground start supervisory signaling or loop start supervisory signaling. The type of signaling is at the option of the customer.
- (3) The Telephone Company shall select the first point of switching, within the selected LATA, at which the line side termination is to be provided unless the customer requests a different first point of switching and Telephone Company facilities and measurement capabilities, where necessary, are available to accommodate such a request.
- (4) A seven digit local telephone number assigned by the Telephone Company is provided for access to FGA switching in the originating direction. The seven digit local telephone number will be associated with the selected end office switch and is of the form NXX-XXXX.

If the customer requests a specific seven digit telephone number that is not currently assigned, and the Telephone Company can, with reasonable effort, comply with that request, the requested number will be assigned to the customer.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(A) Description (Cont'd)

- (5) FGA switching, when used in the terminating direction, is arranged with dial tone start-dial signaling. When used in the terminating direction FGA switching may, at the option of the customer, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When FGA switching is provided in a hunt group or uniform call distribution arrangement, all FGA switching will be arranged for the same type of address signaling.
- (6) No address signaling is provided by the Telephone Company when FGA Switching is used in the originating direction. Address signaling in such cases, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (7) FGA switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, local operator service (0- and 0+), emergency reporting service (911 where available), exchange telephone repair (611 where available), time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate digits). Charges for FGA terminating calls requiring operator assistance or calls to 611 or 911 will only apply where sufficient call details are available. Additional non-access charges will also be billed on a separate account for (1) an operator surcharge, as set forth in the local and/or general exchange service tariffs, for local operator assistance (0- and 0+) calls, (2) calls to certain community

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups
(Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(A) Description (Cont'd)

(7) (Cont'd)

information services, for which rates are applicable under Telephone Company exchange service tariffs, and, (3) calls from a FGA line to another customer's service, in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer.

- (8) When a FGA switching arrangement for an individual customer (a single line or entire hunt group) is discontinued at an end office, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

(B) Optional Features

(1) Common Switching Optional Features

- (a) Hunt Group Arrangement
- (b) Uniform Call Distribution Arrangement
- (c) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement
- (d) Call Denial
- (e) Service Code Denial

(2) Transport Termination Optional Features

- (a) Two-way operation with dial pulse address signaling and loop start supervisory signaling
- (b) Two-way operation with dial pulse address signaling and ground start supervisory signaling
- (c) Two-way operation with dual tone multifrequency address signaling and loop start supervisory signaling
- (d) Two-way operation with dual tone multifrequency address signaling and ground start supervisory signaling

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(B) Optional Features (Cont'd)

(2) Transport Termination Optional Features (Cont'd)

- (e) Terminating operation with dial pulse address signaling and loop start supervisory signaling
- (f) Terminating operation with dial pulse address signaling and ground start supervisory signaling
- (g) Terminating operation with dual tone multifrequency address signaling and loop start supervisory signaling
- (h) Terminating operation with dual tone multifrequency address signaling and ground start supervisory signaling
- (i) Originating operation with loop start supervisory signaling
- (j) Originating operation with ground start supervisory signaling

(3) Local Transport Optional Features

- (a) Supervisory Signaling (as set forth in 6.1.2(A)(2)(a) preceding)
- (b) Customer Specified Entry Switch Receive Level

(4) Certain other features which may be available in connection with Feature Group A are provided under the Telephone Company's local and/or general exchange service tariffs. These are:

- (a) Speed Calling
- (b) Remote Call Forwarding
- (c) Bill Number Screening
- (d) IntraLATA extensions

(C) Transmission Specifications

FGA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGA to the first point of switching.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(D) Testing Capabilities

FGA is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line and milliwatt (102 type) test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, Additional Cooperative Acceptance Testing and Nonscheduled Testing are available for FGA as set forth in 13. following.

6.2.2 Feature Group B (FGB)

(A) Description

- (1) FGB, when directly routed to an end office (i.e., provided without the use of an access tandem switch), is provided at appropriately equipped Telephone Company electronic end office switches. When provided via Telephone Company designated electronic access tandem switches, FGB switching is provided at Telephone Company electronic and electromechanical end office switches.
- (2) FGB is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.
- (3) FGB switching is provided with multifrequency address signaling in both the originating and terminating directions. Except for FGB switching provided with the automatic number identification (ANI) or rotary dial station signaling arrangements as set forth in 6.3 following, any other address signaling in the originating direction, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.2 Feature Group B (FGB) (Cont'd)

(A) Description (Cont'd)

- (4) The access code for FGB switching is a uniform access code. The form of the uniform access code is 950-10XX for carriers. One uniform access code will be assigned to the customer for the customer's domestic communications. This uniform access code will be the assigned access number of all FGB Switched Access Service provided to the customer by the Telephone Company for domestic communications.
- (5) FGB switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider and other customers' services (by dialing the appropriate digits). When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional non-access charges for calls to certain community information services for which rates are applicable under Telephone Company exchange service tariffs. Additionally, non-access charges will also be billed for calls from a FGB trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-10XX access codes, local operator assistance (0- and 0+), service codes 611 and 911 or 10XXX access codes. FGB may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C and D.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups
(Cont'd)

6.2.2 Feature Group B (FGB) (Cont'd)

(A) Description (Cont'd)

- (6) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGB switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGB switching arrangement provided. Different types of FGB or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.
- (7) When all FGB switching arrangements are discontinued at an end office and/or in a LATA, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

(B) Optional Features

(1) Common Switching Optional Features

- (a) Automatic Number Identification (ANI)
(b) Up to 7 Digit Outpulsing of Access Digits to Customer

(2) Transport Termination Optional Features

- (a) Rotary Dial Station Signaling

(3) Local Transport Optional Features

- (a) Customer Specification of Local Transport Termination
(b) Supervisory Signaling (as set forth in 6.1.2(A)(2)(a) preceding)
(c) Customer Specified Entry Switch Receive Level

- (4) Another feature, Bill Number Screening, which may be available in connection with FGB, is provided under the Telephone Company's local and/or general exchange service tariffs.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.2 Feature Group B (FGB) (Cont'd)

(C) Transmission Specifications

FGB is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGB to the first point of switching.

(D) Testing Capabilities

FGB is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, Additional Cooperative Acceptance Testing, Automatic Scheduled Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Nonscheduled Testing are available as set forth in 13. following.

6.2.3 Feature Group C (FGC)

(A) Description

- (1) FGC is provided at all Telephone Company end office switches on a direct trunk basis or via Telephone Company designated access tandem switches. FGC switching is provided to the customer (i.e., providers of MTS and WATS) at an end office switch unless Feature Group D end office switching is provided in the same office. When FGD switching is available, FGC switching will not be provided.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups
(Cont'd)

6.2.3 Feature Group C (FGC) (Cont'd)

(A) Description (Cont'd)

- (2) FGC is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with answer and disconnect supervisory signaling. Wink start start-pulsing signals are provided in all offices where available. In those offices where wink start start-pulsing signals are not available, delay dial start-pulsing signals will be provided, unless immediate dial pulse signaling is provided, in which case no start-pulsing signals are provided.
- (3) FGC is provided with multifrequency address signaling except in certain electromechanical end office switches where multifrequency signaling is not available. In such switches, the address signaling will be dial pulse, revertive pulse, immediate dial pulse or panel call indicator signaling, whichever is available. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such called party number signals will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (4) No access code is required for FGC switching. The telephone number dialed by the customer's end user shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA + NXX-XXXX, 0 or 1 + NPA + NXX-XXXX.
- (5) FGC switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information provider, and other customer's services (by dialing the appropriate codes) when the

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups
(Cont'd)

6.2.3 Feature Group C (FGC) (Cont'd)

(A) Description (Cont'd)

(5) (Cont'd)

services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by offices subtending the access tandem may be accessed. Where measurement capabilities exist, the customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs. Additionally, non-access charges will also be billed for calls from a FGC trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-10XX access codes, local operator assistance (0- and 0+), service codes 611 and 911 and 10XXX access codes. FGC may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C or D.

(6) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGC switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGC switching arrangement provided. Different types of FGC or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

(7) A WATS Access Line may, at the option of the customer, be provided for use with FGC Switched Access Service. A WATS Access Line provides a connection between a customer's end user's premises and a Telephone Company end office switch capable of performing the necessary screening functions for 800 Service, WATS or similar services and is provided only for use at the closed end of such services.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.3 Feature Group C (FGC) (Cont'd)

(A) Description (Cont'd)

(7) (Cont'd)

WATS Access Lines are arranged for either originating calling only or terminating calling only. They are provided with rotary dial or dual tone multifrequency address signaling and either loop start or ground start supervisory signaling. The choice of the type of signaling is at the option of the customer.

WATS Access Lines are provided as either an effective two-wire or effective four-wire transmission path. Each transmission path is provided with Standard Transmission Specifications and Data Transmission Parameters as set forth in 6.4.1(D) and 6.4.2(C) following. At the option of the customer, the WATS Access Line may be ordered with the Improved Two-Wire Voice Transmission Specifications (guaranteed specifications are set forth in 6.4.3 following).

FGC WATS Access Lines are not available for intraLATA service. WATS Access Lines are available for interLATA service under a shared WATS Access Line arrangement. A shared WATS Access Line is where the Telephone Company provides the access line and carries the intraLATA traffic. The application of rates and charges for shared WATS Access Lines are as set forth in 6.7.1(D)(4) following.

(B) Optional Features

(1) Common Switching Optional Features

- (a) Automatic Number Identification (ANI)
- (b) Service Class Routing
- (c) Dial Pulse Address Signaling
- (d) Revertive Pulse Address Signaling
- (e) Delay Dial Start-Pulsing Signaling
- (f) Immediate Dial Pulse Address Signaling
- (g) Panel Call Indicator Address Signaling
- (h) Alternate Traffic Routing
- (i) Answer Supervision for Use with WATS Access Lines

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.3 Feature Group C (FGC) (Cont'd)

(B) Optional Features (Cont'd)

(1) Common Switching Optional Features (Cont'd)

- (i) End Office End User Line Service Screening for Use with WATS Access Lines
- (j) Hunt Group Arrangement for Use with WATS Access Lines
- (k) Uniform Call Distribution Arrangement for Use with WATS Access Lines
- (l) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Lines
- (m) Band Advance Arrangement for Use with WATS Access Lines

(2) Transport Termination Optional Features

- (a) Operator Trunks - i.e., Coin, Non-Coin and Combined Coin and Non-Coin. (Non-Coin Trunks are provided at Telephone Company electronic and electromechanical end offices. Coin and Combined Coin and Non-Coin are provided only at Telephone Company electronic end offices and other Telephone Company end offices where equipment is available.)

(3) Local Transport Optional Features

- (a) Supervisory Signaling (as set forth in 6.1.2(A)(2)(a) preceding).

(4) WATS Access Line

(C) Transmission Specifications

FGC is provided with either Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or Type C is provided.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups
(Cont'd)

6.2.3 Feature Group C (FGC) (Cont'd)

(C) Transmission Specifications (Cont'd)

- When routed to an access tandem only Type B is provided.
- Type B or Type C is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1 when routed directly to an end office. Type B is provided with Interface Groups 2 through 10, whether routed directly to an end office or to an access tandem.

Type DB Data Transmission Parameters are provided with FGC for the transmission path between the customer's premises and the end office when directly routed to the end office, and Type DB Data Transmission Parameters are provided for the transmission path between the customer's premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

(D) Testing Capabilities

FGC is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, Additional Cooperative Acceptance Testing, Automatic Scheduled Testing, Cooperative Scheduled Testing or Manual Scheduled Testing, and Nonscheduled Testing are available as set forth in 13. following for FGC.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.4 Feature Group D (FGD)

(A) Description

- (1) FGD is provided at Telephone Company designated electronic end office switches whether routed directly or via Telephone Company designated electronic access tandem switches.
- (2) FGD is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.
- (3) FGD switching is provided with multifrequency address signaling. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (4) FGD switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate codes) when such services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs. Additionally, non-access charges will also be billed for calls from a FGD trunk to another customer's service in accordance with that customer's applicable service rates when

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.4 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(4) (Cont'd)

the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-10XX access codes, local operator assistance (0- and 0+), service codes 611 and 911 and 10XXX access codes. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C or D.

- (5) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGD switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGD switching arrangement provided. Different types of FGD or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.
- (6) The access code for FGD switching is a uniform access code of the form 10XXX. A single access code will be the assigned number of all FGD access provided to the customer by the Telephone Company. No access code is required for calls to a customer over FGD Switched Access Service if the end user's telephone exchange service is arranged for presubscription to that customer, as set forth in 13. following.

Where no access code is required, the number dialed by the customer's end user shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA + NXX-XXXX, 0 or 1 + NPA + NXX-XXXX.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.4 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(6) (Cont'd)

When the 10XXX access code is used, FGD switching also provides for dialing the digit 0 for access to the customer's operator, 911 for access to the Telephone Company's emergency reporting service, or the end-of-dialing digit (#) for cut-through access to the customer's premises.

(7) FGD switching will be arranged to accept calls from telephone exchange service locations without the need for dialing 10XXX uniform access code. Each telephone exchange service line may be marked with a presubscription code to identify which 10XXX code its calls will be directed to for interLATA service. Presubscription codes are applied as set forth in 13. following.

(8) A WATS Access Line may, at the option of the customer, be provided for use with FGD Switched Access Service. A WATS Access Line provides a connection between a customer's end user's premises and a Telephone Company end office switch capable of performing the necessary screening functions for 800 Service, WATS or similar services and is provided only for use at the closed end of such services.

WATS Access Lines are arranged for either originating calling only or terminating calling only. They are provided with rotary dial or dual tone multifrequency address signaling and either loop start or ground start supervisory signaling. The choice of the type of signaling is at the option of the customer.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.4 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(8) (Cont'd)

WATS Access Lines are provided as either an effective two-wire or effective four-wire transmission path. Each transmission path is provided with Standard Transmission Specifications and Data Transmission Parameters as set forth in 6.4.1(D) and 6.4.2(C) following. At the option of the customer, the WATS Access Line may be ordered with the Improved Two-Wire Voice Transmission Specifications (guaranteed specifications are set forth in 6.4.3 following).

FGD WATS Access Lines are available under two different offerings. They may be provided as either a shared or an unshared line. A shared WATS Access Line is where the Telephone Company provides the access line and carries the intraLATA traffic. An unshared WATS Access Line is where the customer carries total state traffic. The application of rates and charges for shared and unshared WATS Access Lines are as set forth in 6.7.1(D)(4) following.

(B) Optional Features

(1) Common Switching Optional Features

- (a) Automatic Number Identification (ANI)
- (b) Service Class Routing
- (c) Alternate Traffic Routing
- (d) End Office End User Line Service Screening for Use with WATS Access Lines
- (e) Hunt Group Arrangement for Use with WATS Access Lines
- (f) Uniform Call Distribution Arrangement for Use with WATS Access Lines
- (g) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Lines
- (h) Band Advance Arrangement for Use with WATS Access Lines
- (i) Answer Supervision for Use with WATS Access Lines

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.4 Feature Group D (FGD) (Cont'd)

(B) Optional Features (Cont'd)

(2) Transport Termination Optional Features

(a) Operator Trunk, Full Feature Arrangement

(3) Local Transport Optional Features

(a) Supervisory Signaling (as set forth in 6.1.2(A)(2)(a) preceding).

(4) WATS Access Lines

(C) Transmission Specifications

FGD is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or C is provided.
- When routed to an access tandem only Type A is provided.
- Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2 through 10.

Type DA Data Transmission Parameters are provided for the transmission path between the customer's premises and the access tandem and between the access tandem and the end office. Type DB Data Transmission Parameters are provided with FGD for the transmission path between the customer's premises and the end office when directly routed to the end office.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.4 Feature Group D (FGD) (Cont'd)

(D) Testing Capabilities

FGD is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, Additional Cooperative Acceptance Testing, Automatic Scheduled Testing, Cooperative Scheduled Testing, Manual Scheduled Testing, and Nonscheduled Testing, are available for FGD as set forth in 13. following.

6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in addition to, the standard features provided with the Feature Groups. They are provided as either Common Switching or Transport Termination options.

6.3.1 Common Switching Optional Features

(A) Call Denial on Line or Hunt Group

This option allows for the screening of terminating calls within the LATA, and for the completion only of calls to 411, 611, 911, 800, 555-1212, and a Telephone Company specified set of NXXs within the Telephone Company local exchange calling area of the dial tone office in which the arrangement is provided. All other "toll" calls are routed to a reorder tone or recorded announcement. This feature is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices. It is available with Feature Group A.

(B) Service Code Denial on Line or Hunt Group

This option allows for the screening of terminating calls within the LATA, and for disallowing completion of calls to 0-, 555 and N11 (e.g., 411, 611, and 911). This feature is provided where available in all Telephone Company electronic end offices and electromechanical end offices. It is available with Feature Group A.

(C) Hunt Group Arrangement

This option provides the ability to sequentially access one of two or more line side connections in the originating direction, when the access code of the line group is dialed. This feature is provided in all Telephone Company end offices. It is available with Feature Group A.

(D) Uniform Call Distribution Arrangement

This option provides a type of multiline hunting arrangement which provides for an even distribution of calls among the available lines in a hunt group. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(E) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement

This option provides an arrangement for an individual line within a multiline hunt or uniform call distribution group that provides access to that line within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

(F) Automatic Number Identification (ANI)

This option provides the automatic transmission of a seven or ten digit number and information digits to the customer's premises for calls originating in the LATA, to identify the calling station. The ANI feature is an end office software function which is associated on a call-by-call basis with (1) all individual transmission paths in a trunk group routed directly between an end office and a customer's premises 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 premises.

The seven digit ANI telephone number is available with Feature Groups B and C. With these Feature Groups, technical limitations may exist in Telephone Company switching facilities which require ANI to be provided only on a directly trunked basis. ANI will be transmitted on all calls except those originating from multiparty lines, coin stations and coinless pay telephones using Feature Group B, or when an ANI failure has occurred.

6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(F) Automatic Number Identification (ANI) (Cont'd)

The ten digit ANI telephone number is only available with Feature Group D. The ten digit ANI telephone number consists of the Numbering Plan Area (NPA) plus the seven digit ANI telephone number. The ten digit ANI telephone number will be transmitted on all calls except those identified as multiparty line or ANI failure, in which case only the NPA will be transmitted (in addition to the information digit described below).

With Feature Group C, ANI is provided from end offices at which Telephone Company recording for end user billing is not provided, or where it is not required, as with 800 Service. It is not provided from end offices for which the Telephone Company needs to forward ANI to its recording equipment.

Where ANI cannot be provided, e.g., on calls from 4- and 8- party services, information digits will be provided to the customer.

The information digits identify: (1) telephone number is the station billing number - no special treatment required, (2) multiparty line - telephone number is a 4- or 8-party line and cannot be identified - number must be obtained via an operator or in some other manner, (3) ANI failure has occurred in the end office switch which prevents identification of calling telephone number - must be obtained by operator or in some other manner, (4) hotel/motel originated call which requires room number identification, (5) coinless station, hospital, inmate, etc. call which requires special screening or handling by the customer, and (6) call is an Automatic Identified Outward Dialed (AIOD) call from customer premises equipment. The ANI telephone number is the listed telephone number of the customer and is not the telephone number of the calling party.

These ANI information digits are available with Feature Groups B, C and D.

6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(F) Automatic Number Identification (ANI) (Cont'd)

Additional ANI information digits are available with Feature Group D only. They include:

- 1) InterLATA restricted - telephone number is identified line
- 2) InterLATA restricted - hotel/motel line
- 3) InterLATA restricted - coinless, hospital, inmate, etc., line

These information digits will be transmitted as agreed to by the customer and the Telephone Company.

(G) Up to 7 Digit Outpulsing of Access Digits to Customer

This option provides for the end office capability of providing up to 7 digits of the uniform access code (950-10XX) to the customer's premises. The customer can request that only some of the digits in the access code be forwarded. The access code digits would be provided to the customer's premises using multifrequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. It is available with Feature Group B.

(H) Revertive Pulse Address Signaling

This option provides for a dc pulsing arrangement that transmits intelligence in the following manner:

- (1) The equipment at the originating location presets itself to represent the number of pulses required and to count the pulses received from the terminating location.

6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(H) Revertive Pulse Address Signaling (Cont'd)

- (2) The equipment at the terminating location transmits a series of pulses by the momentary grounding of its battery supply until the originating location breaks the dc path to indicate that the required number of pulses has been counted.

This option is available with Feature Group C.

(I) Delay Dial Start-Pulsing Signaling

This option provides a method of indicating to the near end trunk circuit readiness to accept address signaling information by the far end trunk circuit. Delay dial is often referred to as an off-hook, on-hook signaling sequence. The delay dial signal is the off-hook interval and the start-pulsing signal is the on-hook interval. With integrity check, the calling office will not outpulse until a delay dial (off-hook) signal followed by a start-pulsing (on-hook) signal has been identified at the calling office. This option is available with Feature Group C.

(J) Immediate Dial Pulse Address Signaling

This option provides for the forwarding of dial pulses from the Telephone Company end office to the customer without the need of a start-pulsing signal from the customer. It is available with Feature Group C.

(K) Dial Pulse Address Signaling

This trunk side option provides for the transmission of number information, e.g., called number, between the end office switching system and the customer's premises (in either direction) by means of direct current pulses. It is available with Feature Group C.

6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(L) Panel Call Indicator Address Signaling

This option provides a dc pulsing arrangement in which each digit is transmitted as a series of four marginal and polarized impulses. It is available with Feature Group C.

(M) Service Class Routing

This option provides the capability of directing originating traffic from an end office to a trunk group to a customer designated premises, based on the line class of service (e.g., coin, multiparty or hotel/motel), service prefix indicator (e.g., 0-, 0+, 01+ or 011+) or service access code (e.g., 800). It is provided in suitably equipped end office or access tandem switches and is available with Feature Groups C and D.

(N) Alternate Traffic Routing

This option provides the capability of directing originating traffic from an end office (or appropriately equipped access tandem) to a trunk group (the "high usage" group) to a customer designated premises until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or access tandem to a different trunk group (the "final" group) to a second customer designated premises. The customer shall specify the last trunk CCS desired for the high usage group. It is provided in suitably equipped end office or access tandem switches and is available with Feature Groups C and D.

6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(O) Band Advance Arrangement for Use with WATS Access Lines

This option, which is provided in association with two or more WATS Access Line groups, provides for the automatic overflow of terminating calls to a WATS Access Line group, when that group has exceeded its call capacity, to another WATS Access Line group with a band designation equal to or greater than that of the overflowing WATS Access Line group. This arrangement does not provide for call overflow from a group with a higher band designation to one with a lower one. This option is available with Feature Groups C and D.

(P) End Office End User Line Service Screening for Use with WATS Access Lines

This option provides the ability to verify that an end user has dialed a called party address (by screening the called NPA and/or NXX on the basis of geographical bands selected by the Telephone Company) which is in accordance with that end user's service agreement with the customer, e.g., WATS. This option is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices in which WATS Access Lines are provided. It is available with Feature Groups C and D.

(Q) Hunt Group Arrangement for Use with WATS Access Lines

This option provides the ability to sequentially access one of two or more WATS Access Lines (e.g., 800 Service access lines) in the terminating direction, when the hunting number of the WATS Access Line Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company end offices in which WATS Access Lines are provided. It is available with Feature Groups C and D.

6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(R) Uniform Call Distribution Arrangement for Use with WATS Access Lines

This option provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available WATS Access Lines in the hunt group. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Lines are provided. It is available with Feature Groups C and D.

(S) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Lines

This option provides an arrangement for an individual WATS Access Line within a multiline hunt or uniform call distribution group that provides access to that WATS Access Line within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Lines are provided. It is available with Feature Groups C and D.

(T) Answer Supervision for Use with WATS Access Lines

At the option of the Customer, an originating only Designed WATS Access line may be ordered with Answer Supervision. When the Terminating end answers, provided the Interexchange Carrier passes the Answer Supervision to the Exchange Carrier, such Answer Supervision will provide a signal to the originating end user that the distant end has answered. The exact timing of Answer Supervision is dependent upon the Interexchange Carrier. The Answer Supervision will be provided on an effective two-wire Transmission Path. Each Transmission Path will be provided with Standard Transmission Specifications and Data Transmission Parameters as set forth in 6.4.1(D) and 6.4.2(C) following. Such Transmission Path will be associated with a Trunk Side arrangement at the #1/1A ESS end office with reverse battery Loop Supervision.

6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(T) Answer Supervision for Use with WATS Access Lines (Cont'd)

This service provides Loop Start dial tone that can be used with Dial Pulse (DP), or Touch-Tone® (DTMF) signaling. This capability is only available in #1/1A ESS Central Offices. It is available with Feature Groups C and D.

The rates and charges are set forth in 6.8.2(B) following.

6.3.2 Transport Termination Optional Features

(A) Rotary Dial Station Signaling

This option provides for the transmission of called party address signaling from rotary dial stations to the customer's premises for originating calls. This option is provided in the form of a specific type of Transport Termination. It is available with Feature Group B, only on a directly trunked basis.

(B) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin

This option may be ordered to provide coin, non-coin, or combined coin and non-coin operation. It is available only with Feature Group C and is provided in electronic end offices and other Telephone Company end offices where equipment is available. It is provided as a trunk type of Transport Termination.

Coin:

This arrangement provides for initial coin return control and routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating coin calls requiring operator assistance to the customer's premises. Because operator assisted coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.2 Transport Termination Optional Features (Cont'd)

(B) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin (Cont'd)

The operator assistance coin calling arrangement is also normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's TSPS systems, rather than in the customer's manual cord boards.

Non-Coin:

This arrangement provides for the routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating non-coin calls requiring operator assistance to the customer's premises. Because operator assisted non-coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

The operator assistance non-coin calling arrangement is also normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's TSPS systems, rather than in the customer's manual cord boards. When so equipped, the ANI feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for coinless public stations, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

Combined Coin and Non-Coin:

This arrangement provides for initial coin return control and routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating operator assisted coin and non-coin calls requiring operator assistance to the customer's premises. Because operator assisted coin and non-coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.2 Transport Termination Optional Features (Cont'd)

(B) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin (Cont'd)

This arrangement is normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's operator services systems, rather than in the customer's manual cord boards. When so equipped, the ANI optional feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for coinless public stations, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

(C) Operator Trunk - Full Feature

This option provides the initial coin return control function to the customer's operator. It is available with Feature Group D and is provided as a trunk type of Transport Termination.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications

Each Switched Access Service transmission path is provided with Standard Transmission Specifications. There are three different standard specifications (Types A, B and C). The standard for a particular transmission path is dependent on the Feature Group, the Interface Group and whether the service is directly routed or via an access tandem. In addition, the WATS Access Line is provided with Standard Transmission Specifications for two-wire and four-wire. The available transmission specifications are set forth in 6.4.1 following. Data Transmission Parameters are also provided with each Switched Access Service transmission path and WATS Access Line. The Telephone Company will, upon notification by the customer that the data parameters set forth in 6.4.2(A), 6.4.2(B) or 6.4.2(C) are not being met, conduct tests independently or in cooperation with the customer, and take any necessary action to insure that the data parameters are met.

In addition, the WATS Access Line may be optionally provided with Improved Two-Wire Voice Transmission Specifications as set forth in 6.4.3 following.

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to January 1, 1984 except that service configurations having performance specifications exceeding the standards listed in this provision will be maintained at performance levels specified in this tariff.

The transmission specifications contained in this section are immediate action limits. Acceptance limits are set forth in Technical Reference PUB 62500. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications

Following are descriptions of the three Standard Transmission Specifications available with Switched Access Service Feature Groups and the two Standard Transmission Specifications for WATS Access Lines. The specific applications in terms of the Feature Groups and Interface Groups with which the Feature Group Standard Transmission Specifications are provided are set forth in 6.2.1(C), 6.2.2(C), 6.2.3(C) and 6.2.4(C) preceding.

(A) Type A Transmission Specifications

Type A Transmission Specifications is provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is \pm 2.0 dB

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise</u>
up to 50	32 dBrnCO
51 to 100	34 dBrnCO
101 to 200	37 dBrnCO
201 to 400	40 dBrnCO
401 to 1000	42 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone, is less than or equal to 45 dBrnCO.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	21 dB	14 dB
POT to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11 dB

(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire ports of a four-wire point of termination shall be equal to or greater than:

<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
5 dB	2.5 dB

(B) Type B Transmission Specifications

Type B Transmission Specifications is provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is \pm 2.5 dB.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type B1</u>	<u>Type B2</u>
up to 50	32 dBrnCO	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGC and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Feature Group, type of termination, and type of transmission path. They are greater than or equal to the following:

* For Feature Groups C and D only Type B2 will be provided. For Feature Groups A and B, Type B1 or B2 will be provided as set forth in Technical Reference PUB 62500.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(5) Echo Control (Cont'd)

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem		
- Terminated in 4-Wire trunk	21 dB	14 dB
- Terminated in 2-Wire trunk	16 dB	11 dB
POT to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem		
. For FGB access	8 dB	4 dB
. For FGC access (Effective 4-Wire trans- mission path at end office)	16 dB	11 dB
. For FGC access (Effective 2-Wire trans- mission path at end office)	13 dB	6 dB

(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire point of termination shall be equal to or greater than:

<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
5 dB	2.5 dB

(C) Type C Transmission Specifications

Type C Transmission Specifications is provided with the following parameters:

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(C) Type C Transmission Specifications (Cont'd)

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is \pm 3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type C1</u>	<u>Type C2</u>
up to 50	32 dBrnCO	38 dBrnCO
51 to 100	33 dBrnCO	39 dBrnCO
101 to 200	35 dBrnCO	41 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

* For Feature Groups C and D only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference PUB 62500.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(C) Type C Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	13 dB	6 dB
POT to End Office		
- Direct	13 dB	6 dB
- Via Access Tandem (for FGB only)	8 dB	4 dB

(D) WATS Access Line Standard Transmission Specifications

(1) Standard Two-Wire Voice Transmission Specifications

(a) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is + 4.0 dB.

(b) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -3.0 dB to +9.0 dB.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(D) WATS Access Line Standard Transmission Specifications (Cont'd)

(1) Standard Two-Wire Voice Transmission Specifications (Cont'd)

(c) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
up to 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

(d) Echo Control

Return Loss for both Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	6.0 dB
SRL	3.0 dB

(2) Standard Four-Wire Voice Transmission Specifications

(a) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -3.0 dB to +3.0 dB.

(b) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -1.0 dB to +4.5 dB.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(D) WATS Access Line Standard Transmission Specifications
(Cont'd)

(2) Standard Four-Wire Voice Transmission Specifications
(Cont'd)

(c) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
up to 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

(d) Echo Control

The Equal Level Echo Path Loss for both Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	15.0 dB
SRL	9.0 dB

6.4.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Feature Group arrangements. The specific applications in terms of the Feature Groups with which they are provided are set forth in 6.2.1(C), 6.2.2(C), 6.2.3(C) and 6.2.4(C) preceding. In addition, the WATS Access Line is provided with Data Transmission Parameters. Following are descriptions of each.

(A) Data Transmission Parameters Type DA

(1) Signal-to-C-Notched Noise Ratio

The Signal-to-C-Notched Noise Ratio is equal to or greater than 33 dB.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.2 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

	<u>604 to 2804 Hz</u>
less than 50 route miles	500 microseconds
equal to or greater than 50 route miles	900 microseconds

	<u>1004 to 2404 Hz</u>
less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

(5) Phase Jitter

The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 5° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.2 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB

(1) Signal-to-C-Notched Noise Ratio

The Signal-to-C-Notched Noise Ratio is equal to or greater than 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

	<u>604 to 2804 Hz</u>
less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds

	<u>1004 to 2404 Hz</u>
less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 7° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.2 Data Transmission Parameters (Cont'd)

(C) WATS Access Line Data Transmission Parameters

(1) Signal-to-C-Notched Noise Ratio

The maximum Signal-to-C-Notched Noise Ratio is 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands specified is:

1000 microseconds	604 to 2804 Hz
500 microseconds	1000 to 2404 Hz

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 7° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.3 WATS Access Line

(A) Improved Two-Wire Voice Transmission Specifications

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -4.0 dB to +4.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
up to 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

(4) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

6. Switched Access Service (Cont'd)

6.5 Obligations of the Telephone Company

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

6.5.1 Network Management

The Telephone Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. Generally, service levels are considered acceptable only when both end users and customers are able to establish connections with little or no delay encountered within the Telephone Company network. The Telephone Company maintains the right to apply protective controls, i.e., those actions, such as call gapping, which selectively cancel the completion of traffic, over any traffic carried over its network, including that associated with a customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Telephone Company or customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in 2. preceding.

6.5.2 Design and Traffic Routing of Switched Access Service

For Feature Groups C and D, the Telephone Company shall design and determine the routing of Switched Access Service, including the selection of the first point of switching and the selection of facilities from the interface to any switching point and to the end offices where busy hour minutes of capacity are ordered. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups. Finally, the Telephone Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment. Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and the Telephone Company traffic routing plans. If the customer desires routing or directionality different from that determined by the Telephone Company, the Telephone Company

6. Switched Access Service (Cont'd)

6.5 Obligations of the Telephone Company (Cont'd)

6.5.2 Design and Traffic Routing of Switched Access Service (Cont'd)

will work cooperatively with the customer in determining (1) whether the service is to be routed directly to an end office or through an access tandem switch and (2) the directionality of the service. For Feature Groups A and B, the line or trunk directionality and traffic routing of the Switched Access Service between the customer's premises and the entry switch are determined by the customer's order for service. Additionally, for Feature Group B, the customer may order the optional feature Customer Specification of Local Transport Termination.

6.5.3 Provision of Service Performance Data

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

6.5.4 Trunk Group Measurement Reports

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

6. Switched Access Service (Cont'd)

6.5 Obligations of the Telephone Company (Cont'd)

6.5.5 Determination of Number of Transmission Paths

For Feature Groups A and B, which are ordered on a per line or per trunk basis respectively, the customer specifies the number of transmission paths in the order for service. The Telephone Company will determine the number of Switched Access Service transmission paths to be provided for the Switched Access Feature Group C or D busy hour minutes of capacity ordered. A transmission path is a communication path within the frequency bandwidth of approximately 300 to 3000 Hz or a derived communication path of a frequency bandwidth of approximately 300 Hz to 3000 Hz provided over a high frequency analog facility or a high speed digital facility between a customer's premises and a Telephone Company location. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in 6.1.1 (E) preceding) for the end offices for each Feature Group ordered from a customer's premises. The total busy hour minutes of capacity by type for the end office will be converted to transmission paths using standard Telephone Company traffic engineering methods. The number of transmission paths provided shall be the number required based on (1) the use of access tandem switches and end office switches, (2) the use of end office switches only, or (3) the use of tandem switches only.

6.5.6 Determination of Number of End Office Transport Terminations

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

6.5.7 Design Blocking Probability

The Telephone Company will design the facilities used in the provision of Switched Access Service to meet the blocking probability criteria as set forth in (A) through (D) following.

- (A) For Feature Groups A and B no design blocking criteria apply.

6. Switched Access Service (Cont'd)

6.5 Obligations of the Telephone Company (Cont'd)

6.5.7 Design Blocking Probability (Cont'd)

- (B) For Feature Group C, the design blocking objective will be no greater than one percent (.01) between the point of termination at the customer's premises and the first point of switching when traffic is directly routed without an alternate route. Standard traffic engineering methods will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.
- (C) For Feature Group D, the design blocking objective will be no greater than one percent (.01) between the point of termination at the customer's premises and the end office switch, whether the traffic is directly routed without an alternate route or routed via an access tandem. Standard traffic engineering methods as set forth in reference document Telecommunications Transmission Engineering - Volume 3 - Networks and Services (Chapters 6-7) will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.
- (D) The Telephone Company will perform routine measurement functions except on Feature Groups A and B to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional capacity (i.e., busy hour minutes of capacity or trunks) be ordered by the customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables.
- (1) For transmission paths carrying only first routed traffic direct between an end office and a customer's premises without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

6. Switched Access Service (Cont'd)

6.5 Obligations of the Telephone Company (Cont'd)

6.5.7 Design Blocking Probability (Cont'd)

(D) (Cont'd)

(1) (Cont'd)

Measured Blocking Thresholds
 in the Time Consistent Busy Hour
 for the Number of Measurements
 Taken Between 8:00 a.m. and 11:00 p.m.
 Per Trunk Group

Number of Transmission Paths Per Trunk Group	Per Trunk Group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	.070	.080	.090	.140
3	.050	.060	.070	.090
4	.050	.060	.070	.080
5-6	.040	.050	.060	.070
7 or more	.030	.035	.040	.060

(2) For transmission paths carrying first routed traffic between an end office and a customer's premises via an access tandem, the measured blocking thresholds are as follows:

Measured Blocking Thresholds
 in the Time Consistent Busy Hour
 for the Number of Measurements
 Taken Between 8:00 a.m. and 11:00 p.m.
 Per Trunk Group

Number of Transmission Paths Per Trunk Group	Per Trunk Group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	.045	.055	.060	.095
3	.035	.040	.045	.060
4	.035	.040	.045	.055
5-6	.025	.035	.040	.045
7 or more	.020	.025	.030	.040

6. Switched Access Service (Cont'd)

6.6 Obligations of the Customer

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

6.6.1 Report Requirements

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

(A) Jurisdictional Reports

When a customer orders Switched Access Service to both interstate and intrastate use, the customer is responsible for providing reports as set forth in 2.3.10 preceding. Charges will be apportioned in accordance with those reports.

(B) Code Screening Reports

When a customer orders Service Class Routing it must report the number of trunks and/or the appropriate codes to be instituted in each end office or access tandem switch, for each arrangement ordered.

6.6.2 Supervisory Signaling

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

6.6.3 Trunk Group Measurements Reports

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

6. Switched Access Service (Cont'd)

6.7 Rate Regulations

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

6.7.1 Description and Application of Rates and Charges

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

(A) Monthly Rates

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

(B) Usage Rates

Usage rates are rates that apply only when a specific rate element is used. These are applied on a per access minute basis. Access minute charges are accumulated over a monthly period.

(C) Nonrecurring Charges

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

(1) Installation of Service

Nonrecurring charges apply to each Switched Access Service installed. For FGA and FGB, which are ordered on a per line or trunk basis respectively, the charge is applied per line or trunk. For FGC and FGD, which are ordered on a busy hour minutes of capacity basis, the charge is also applied on a per trunk basis but the charge applies only when the capacity ordered requires the installation of an additional trunk(s).

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

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

(C) Nonrecurring Charges (Cont'd)

(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 and charged for as set forth in 6.7.7 following.

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 of agency authorization,
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of Jurisdiction.

(D) Application of Rates

Rates are applied as an Access Charge per Minute of Use.

The specific application of these rates for a specific customer is dependent upon (1) the Feature Group, (2) the use of the service and (3) the availability of equal access capabilities in the end office to which the service is provided.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

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

(D) Application of Rates (Cont'd)

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

- (1) The Rates per Access Minute apply to all FGA, FGB and FGC access minutes, to all access minutes that originate or terminate at end offices equipped with equal access (i.e., FGD) capabilities and FGB access minutes when FGB is utilized in the provision of MTS/WATS service.
- (2) The rates per Access Minute apply to all access minutes (measured or assumed) generated by FGA and FGB services from or to an end office which is not equipped with equal access capabilities.
- (3) When FGA or FGB Switched Access Service provided to an entry switch (i.e., dial tone office for FGA and access tandem for FGB) has usage originating from and/or terminating at both end offices that have been converted to equal access and end offices that have not been converted, the rate per Access Minute will apply to all ratible access minutes.
 - (a) Where originating and terminating recording capability does not exist for MTS/WATS-type FGA or FGB provided to an entry switch, the number of access minutes will be assumed to be 9000 access minutes per line or trunk, regardless of whether the line or trunk is arranged for one way or two way calling. When the line or trunk is arranged for two way calling, and there is no recording capability for either direction, 4500 access minutes will be assumed to be originating and 4500 access minutes will be assumed to be terminating. Where recording capability exists for either originating or terminating usage, but not both, on a line or trunk arranged for two way calling, the number of access minutes per line or trunk will be an assumed 9000 or the recorded usage, whichever is greater.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

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

(D) Application of Rates (Cont'd)

(4) The rate applications following for WATS Access Lines are in addition to the rates and charges specified elsewhere in this section.

(a) For shared WATS Access Lines, the access line from the end user's premises to the WATS or WATS-type serving office is provided to the end user via the Wide Area Telecommunications Tariff.

(b) For unshared WATS Access Lines, the rate elements that apply for the access line between the end user and the WATS or WATS-type serving office are; Special Access Lines (SAL) between the end user premises and the end office (i.e., WATS or WATS-type serving office) and, when the end office is not a WATS or WATS-type serving office, Special Transport to extend the SAL to a WATS or WATS-type serving office. The nonrecurring charge for this service is that for the Special Access Line. The rates for Special Transport and Special Access Lines are found in 7. following.

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

The customer will have the choice of converting existing services to equal access (i.e., Feature Group D) at no charge or retaining the existing services. The FGD rate will apply to the total access minutes beginning on the actual conversion date. If the customer chooses not to convert to FGD but retain existing services, the rates associated with those services will apply.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.2 Minimum Periods

Switched Access Service is provided for a minimum period of one month.

6.7.3 Switched Access Service for Resale of WATS-Type and WATS Services

When the customer orders combined access as set forth in 3.3(D) preceding, subject to the limitations as set forth in 3.2 preceding, and the Telephone Company receives the information furnished as set forth in 3.4(D) preceding, the following regulations apply.

- (A) As set forth in 3.4(D) preceding, the customer shall supply specific documentation in connection with the provision of combined access. Such documentation shall be supplied each month and shall identify the involved resold WATS and/or WATS-type services. The monthly period used to determine the minutes of use per resold WATS and/or WATS-type services shall be the most recent monthly period for which the customer has received a bill for such resold WATS and/or WATS-type services. This information shall be delivered to the Telephone Company, at a location specified by the Telephone Company, no later than 15 days after the bill date shown on the resold WATS and/or WATS-type service bill. If the required documentation is not received by the Telephone Company, the previously reported information as described in 3.4(D) preceding will be used for the next two months. For any subsequent month no allocation or credit will be made until the required documentation is delivered to the Telephone Company by the customer. The rate treatment set forth in (B) following will not apply in these cases.
- (B) When combined access groups are provided, they will be billed as set forth in (1), (2) or (3) following. When more than one combined access group is provided in a LATA, the Telephone Company will determine the minutes of use for each of the combined access groups as set forth in 3.6(E) preceding.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.3 Switched Access Service for Resale of WATS-Type and WATS Services (Cont'd)

(B) (Cont'd)

(1) Combined Access Groups - Non Equal Access Offices Only

When all the usage on a combined access group originates from and/or terminates at end offices in the LATA that have not been converted to equal access, the following regulations apply:

- (a) Each line side Switched Access Service provided as set forth in 3.6(E)(1)(b) preceding will be billed at local business exchange service rates as set forth in (4) following.
- (b) Switched Access Service rates will apply for the line side and trunk side combined access groups as follows.

For line side Switched Access Service provided in a combined access group, the minutes billed will be all the terminating intrastate access minutes and the adjusted originating intrastate access minutes for such combined groups. The adjusted originating minutes will be the originating intrastate access minutes less a prorated portion of the resold WATS and/or WATS-type service minutes of use.

For trunk side Switched Access Service provided in a combined access group, the minutes billed will be all the terminating and originating intrastate access minutes for such combined groups.

The rates that apply for the line side Switched Access Service and/or the trunk side Switched Access Service access minutes will be the Switched Access Service rates as set forth in 6.8 following.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.3 Switched Access Service for Resale of WATS-Type and WATS Services (Cont'd)

(B) (Cont'd)

(2) Combined Access Groups - Equal Access Offices Only

When all the usage on a combined access group originates from and/or terminates at end offices in the LATA that have been converted to equal access, the following regulations apply:

- (a) Each line side Switched Access Service provided as set forth in 3.6(E)(2)(b) preceding will be billed at local business exchange service rates as set forth in (4) following.
- (b) Switched Access Service rates will apply for the line side and trunk side combined access groups as follows.

For line side Switched Access Service provided in a combined access group, the minutes billed will be all the terminating intrastate access minutes and the adjusted originating intrastate access minutes for such combined groups. The adjusted originating minutes will be the originating intrastate access minutes less a prorated portion of the resold WATS and/or WATS-type service minutes of use.

For trunk side Switched Access Service provided in a combined access group, the minutes billed will be all the terminating and originating intrastate access minutes for such combined groups.

The rates that apply for the line side Switched Access Service and/or the trunk side Switched Access Service access minutes will be the Switched Access Service rates as set forth in 6.8 following.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.3 Switched Access Service for Resale of WATS-Type and WATS Services (Cont'd)

(B) (Cont'd)

(3) Combined Access Groups - Non Equal Access and Equal Access Offices

When a MTS/WATS-type FGA or FGB combined access group provided to an entry switch (i.e., dial tone office for FGA and access tandem for FGB) has usage that originates from and/or terminates at both end offices in the LATA that have been converted to equal access and end offices in the LATA that have not been converted, the following regulations apply:

- (a) Each FGA line side Switched Access Service provided as set forth in 3.6(E)(3)(b) preceding will be billed at local business exchange service rates as set forth in (4) following.

In addition, FGA originating usage in excess of the resold WATS or WATS-type originating usage, if any, will be billed as set forth in 6.7.1(D)(3) preceding.

- (b) Each FGB trunk side Switched Access Service provided in the combined access group(s) will be billed in accordance with the regulations set forth in 6.7.1(D)(3) preceding.

- (4) For each Switched Access Service provided as set forth in (1)(a), (2)(a) and/or (3)(a) preceding, local business exchange service rates as set forth in 6.8.3, shall apply. The exchange involved shall be the exchange in which the service is provided.

The number of line side Switched Access Services billed at rates set forth in 6.8.3 following shall not exceed the number of line side connections provided in line side combined access groups in service in a LATA.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.3 Switched Access Service for Resale of WATS-Type and WATS Services (Cont'd)

(B) (Cont'd)

(4) (Cont'd)

The local business exchange service rate to be charged for a line side Switched Access Service where the local business exchange service is measured service will not include local measured service minutes because all the terminating access minutes are billed as Switched Access Service access minutes.

- (5) The adjustments set forth in (1), (2) and (3) preceding will be made to the involved customer account no later than either the next bill date, or the one subsequent to that, depending on when the usage data is obtained.
- (6) When resold WATS and/or WATS-type service usage is shown in hours, the number of hours shall be multiplied by 60 to develop the resold WATS and/or WATS-type service minutes of use. If the resold WATS and/or WATS-type service usage is shown in a unit other than hours or minutes, the customer shall provide a factor to convert that unit to minutes.
- (7) The originating intrastate access minutes for Switched Access Service, adjusted as set forth in (1), (2) or (3) preceding, or any other section of this tariff, that are billed to a customer in a monthly period shall not be less than zero.

(C) When combined access is provided, the Telephone Company may request the WATS or WATS-type service usage for which the customer was billed. For WATS service, the usage may be requested from either the customer or the provider of the WATS service. For WATS-type service, the usage will be requested from the customer. The request for this information will relate back no more than 12 months prior to the current billing period.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.3 Switched Access Service for Resale of WATS-Type and WATS Services (Cont'd)

(D) When the customer orders Switched Access Service associated with the resale of Private Line Service which is provided with the use of Special Access Service, the regulations set forth in 3.3(C) preceding and 7.4.2 following shall apply.

6.7.4 Minimum Monthly Charge

Switched Access Service is subject to a minimum monthly charge. The minimum charge applies for the total capacity provided. The minimum monthly charge consists of the following elements:

The minimum monthly charge for the Local Switching, Line Termination and Intercept rate elements is the sum of the charges set forth in 6.8.2, (A), (B) and (C) following for the measured or assumed usage for the month, adjusted as set forth in 6.7.3 preceding.

For the Local Transport rate element of Switched Access Services, the minimum monthly charge is assessed in terms of a Minimum Monthly Usage Charge (MMUC). If the actual Local Transport usage charge for the month, adjusted as set forth in 6.7.3 preceding, is higher than the MMUC, the customer pays the actual usage charge. If the Local Transport usage charge is lower than the MMUC, the customer pays the MMUC. The MMUC is determined as set forth in 6.7.5 following. Rates for actual usage are set forth in 6.8.1(A) following.

6.7.5 Minimum Monthly Usage Charge (MMUC)

The MMUC (the minimum transport charge) varies by capacity.

The MMUC is as follows:

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.5 Minimum Monthly Usage Charge (MMUC) (Cont'd)

<u>Mileage Bands</u>	<u>Minimum Transport Charge For FGC and FGD Per BHMC*</u>	<u>Minimum Transport Charge For FGA, FGB or FGD** Per Line or Trunk</u>
0 to 1	\$.5550	\$ 16.65
Over 1 to 8	\$.9750	\$ 29.25
Over 8 to 16	\$2.2575	\$ 67.73
Over 16 to 25	\$4.1850	\$125.55
Over 25 to 50	\$4.5150	\$135.45
Over 50 to 100	\$4.2150	\$126.45
Over 100	\$4.3500	\$130.50

The MMUC billed to the customer for Feature Group C and Feature Group D when ordered in BHMCs will be based on the total number of BHMCs (by type of BHMC) provided in or out of the end office (by Feature Group). For Feature Group D ordered on a per trunk basis, the MMUC will be billed to the customer based on an assumed 30 BHMCs per trunk. For Feature Group A, the MMUC will be billed to the customer at the line or hunt group level or other level of account based on an assumed 30 BHMCs per line. For Feature Group B, the MMUC will be billed to the customer based on an assumed 30 BHMCs per trunk, by entry switch.

For MTS/WATS-type Feature Group A service the mileage band to be used to determine the MMUC will be that into which the airline distance between the first point of switching and the customer serving wire center falls. The MMUC does not apply to business exchange rated lines.

* BHMC is the number of busy hour minutes of capacity provided.
 ** The MMUC for FGD per trunk applies only when FGD is ordered on a per trunk basis.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.5 Minimum Monthly Usage Charge (MMUC) (Cont'd)

The MMUC is not applied to Feature Group A and B services when an assumed average number of access minutes are used because actual measurement capabilities do not exist. In these cases, the customer will always be billed for the assumed average number of access minutes, adjusted as set forth in 6.7.3 preceding, if required.

6.7.6 Change of Feature Group Type

Changes from one type of Feature Group to another will be treated as a discontinuance of one type of service and a start of another. Nonrecurring charges will apply, with one exception. When an customer upgrades a Feature Group A, B or C service to a Feature Group D service, the nonrecurring charges will not apply. When a customer upgrades a Feature Group A, B or C service to Feature Group D service, minimum period obligations will not change, i.e., the time elapsed in the existing minimum period obligations will be credited to the minimum period obligations for Feature Group D service. For all other changes from one type of Feature Group to another, new minimum period obligations will be established.

6.7.7 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

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 charge for the capacity affected. There will be no change in the minimum period requirements.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.7 Moves (Cont'd)

(B) Moves to a Different Building

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

6.7.8 Measuring Access Minutes

Customer traffic to end offices will be measured (i.e., recorded or assumed) by the Telephone Company at end office switches or access tandem switches. Originating and terminating calls will be measured (i.e., recorded or assumed) by the Telephone Company to determine the basis for computing chargeable access minutes. For terminating calls over FGA and FGB, FGC to 800 and FGD, and for originating calls over MTS/WATS-type FGA and FGB and FGD, the measured minutes are the chargeable access minutes. For originating calls over FX/ONAL FGA and FGC, chargeable originating access minutes are derived from recorded minutes in the following manner.

- Step 1: Obtain recorded originating minutes and messages (measured as set forth in (A) and (C) following for FX/ONAL FGA and FGC respectively) from the appropriate recording data.
- Step 2: Obtain the total messages and attempts by multiplying the originating measured messages by the attempts per message ratio. Attempts per message ratios (A/M) are obtained separately for the major call categories such as DDD, operator, and 800 from a sample study which analyzes the ultimate completion status of the total attempts which receive acknowledgement from the customer. That is, Measured Messages divided by Completion Ratio equals Total Attempts.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.8 Measuring Access Minutes (Cont'd)

Step 3: Obtain the total non-conversation time additive (NCTA) by multiplying the total attempts (obtained in Step 2) by the NCTA per attempt ratio. The NCTA per attempt ratio is obtained from the sample study identified in Step 2 by measuring the non-conversation time associated with both completed and incompletd attempts. The total NCTA is the time on a completed attempt from customer acknowledgement of receipt of call to called party answer (set up and ringing) plus the time on an incompletd attempt from customer acknowledgement of call until the access tandem or end office receives a disconnect signal (ring - no answer, busy or network blockage). That is, Total Attempts times Non-Conversation Time per Attempt Ratio equals Total NCTA.

Step 4: Obtain total chargeable originating access minutes by adding the total NCTA (obtained in Step 3) to the recorded originating measured minutes (obtained in Step 1). That is, Measured Minutes plus NCTA equals Chargeable Originating Access Minutes.

Following is an example which illustrates how the chargeable originating access minutes are derived from the measured originating minutes using this formula.

Where: Measured Minutes (M. Min.) = 7,000
Measured Messages (M. Mes.) = 1,000
Attempts Per Message Ratio (A/M) = 1.3330
NCTA per Attempt = .4

(1) Total Attempts = 1,000(M. Mes) x 1.333 = 1,333

(2) Total NCTA = .4 (NCTA per Attempt) x 1,333 = 533.2

(3) Total Chargeable Originating Access Minutes =
7,000 (M. Min) + 533.2(NCTA) = 7,533.2

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.8 Measuring Access Minutes (Cont'd)

When assumed minutes are used, the assumed minutes are the chargeable access minutes.

FGA access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each line or hunt group, and are then rounded up to the nearest access minute for each line or hunt group. FGB, FGC and FGD access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

Assumed minutes are used for FGA and FGB services which originate or terminate in end offices not equipped with measurement capabilities.

The assumed average access minutes used for these services originating or terminating in end offices where measurement capability is not available are as set forth in 3.6(C) and 3.6(D).

(A) Feature Group A Usage Measurement

For originating calls over FGA, usage measurement begins when the originating FGA entry switch receives an off-hook supervisory signal forwarded from the customer's point of termination. (Where FGA is used for MTS/WATS-type services, this off-hook signal is generally provided by the customer's equipment. Where FGA is used for FX/ONAL services, the off-hook signal is generally forwarded by the customer's equipment when the called party answers.)

The measurement of originating call usage over FGA ends when the originating FGA entry switch receives an on-hook supervisory signal from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over FGA, usage measurement begins when the terminating FGA entry switch receives an off-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has answered. The measurement of terminating call usage over FGA ends when the terminating FGA entry switch

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.8 Measuring Access Minutes (Cont'd)

(A) Feature Group A Usage Measurement (Cont'd)

receives an on-hook supervisory signal from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

(B) Feature Group B Usage Measurement

For originating calls over FGB, usage measurement begins when the originating FGB entry switch receives answer supervision forwarded from the customer's point of termination, indicating the customer's equipment has answered.

The measurement of originating call usage over FGB ends when the originating FGB entry switch receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over FGB, usage measurement begins when the terminating FGB entry 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 FGB ends when the terminating FGB entry switch receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

(C) Feature Group C Usage Measurement

For originating calls over FGC, usage measurement begins when the originating FGC entry switch receives answer supervision from the customer's point of termination, indicating the called party has answered.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.8 Measuring Access Minutes (Cont'd)

(C) Feature Group C Usage Measurement (Cont'd)

The measurement of originating call usage over FGC ends when the originating FGC entry switch receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over FGC to services other than 800, terminating FGC usage is not directly measured at the terminating entry switch, but is imputed from originating usage, excluding usage from calls to 800.

For terminating calls over FGC to 800 Service, usage measurement begins when the terminating FGC entry switch receives answer supervision from the terminating end user's end office, indicating the terminating 800 Service end user has answered.

The measurement of terminating call usage over FGC to 800 Service ends when the terminating FGC entry switch receives an on-hook supervisory signal from the terminating end user's end office, indicating the terminating 800 Service end user has disconnected, or from the customer's point of termination, whichever is recognized first by the entry switch.

(D) Feature Group D Usage Measurement

For originating calls over FGD, usage measurement begins when the originating FGD entry switch receives the first wink supervisory signal forwarded from the customer's point of termination.

The measurement of originating call usage over FGD ends when the originating FGD entry switch receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.8 Measuring Access Minutes (Cont'd)

(D) Feature Group D Usage Measurement (Cont'd)

For terminating calls over FGD, the measurement of access minutes begins when the terminating FGD entry switch receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

The measurement of terminating call usage over FGD ends when the terminating FGD entry switch receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

6.7.9 Network Blocking Charge for Feature Group D

The customer will be notified by the Telephone Company to increase its capacity (busy hour minutes of capacity or quantities of trunks) when excessive trunk group blocking occurs on groups carrying Feature Group D traffic and the measured access minutes for that hour exceed the capacity purchased. Excessive trunk group blocking occurs when the blocking thresholds stated below are exceeded. They are predicated on time consistent, hourly measurements over a 30 day period excluding Saturdays, Sundays and national holidays. If the order for additional capacity has not been received by the Telephone Company within 15 days of the notification, the Telephone Company will bill the customer, at the rate set forth in 6.8.1(C) following, for each overflow in excess of the blocking threshold when (1) the average "30 day period" overflow exceeds the threshold level for any particular hour and (2) the "30 day period" measured average originating or two-way usage for the same clock hour exceeds the capacity purchased.

Blocking Thresholds

<u>Trunks in Service</u>	<u>1%</u>	<u>1/2%</u>
1-2	.070	.045
3-4	.050	.035
5-6	.040	.025
7 or greater	.030	.020

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.9 Network Blocking Charge for Feature Group D (Cont'd)

The 1% blocking threshold is for transmission paths carrying traffic direct (without an alternate route) between an end office and a customer's premises. The 1/2% blocking threshold is for transmission paths carrying first routed traffic between an end office and a customer's premises via an access tandem.

6.7.10 Application of Rates for Extension Service

Feature Group A Switched Access Service and Feature Groups C and D WATS Access Lines are available with extensions, i.e., additional terminations of the service at different building(s) in the same or a different LATA. Feature Group A extensions within the LATA are provided and charged for under the Telephone Company's local and/or general exchange service tariffs. Feature Group A extensions in different LATAs and WATS Access Line extensions in the same or different LATAs are provided and charged for as Special Access Service. The rate elements which apply are: A Voice Grade Connecting Channel, Channel Mileage, if applicable, and a Channel Interface (with signaling). All appropriate monthly rates and nonrecurring charges set forth in 7. following will apply.

6.7.11 Message Unit Credit

Calls from end users to the seven digit local telephone numbers associated with Feature Group A Switched Access Service are subject to Telephone Company local and/or general exchange service tariff charges (including message unit and toll charges as applicable). The monthly bills rendered to customers for their Feature Group A Switched Access Service will include a credit to reflect any message unit charges collected from their end users under the Telephone Company's local and/or general exchange service tariffs. When the customer is provided MTS/WATS-type FGA service for use in both the originating and terminating directions and billed assumed minutes of use for the MTS/WATS-type FGA service, the credit will apply to access minutes not to exceed 4500. When the customer is provided originating only MTS/WATS-type FGA and billed assumed minutes for the MTS/WATS-type FGA, the credit to apply to access minutes not to exceed 9000. No credit will apply for any terminating FGA access minutes. No message unit credit will be given when the local business exchange rates apply as set forth in 6.7.3 preceding. The message unit credit for originating access minutes is as set forth in 6.8.5 following.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.12 Local Information Delivery Services

Calls over Switched Access in the terminating direction to certain community information services will be rated under the applicable rates for Switched Access Service as set forth in 6.8 following. In addition, the charges per call as specified under the Telephone Company's local and/or general exchange service tariffs will also apply.

6.7.13 Mileage Measurement

The mileage to be used to determine the monthly rate for the Local Transport is calculated on the airline distance between the end office switch where the call carried by Local Transport originates or terminates and the customer's serving wire center, except as set forth in (A) through (D) following. Where applicable, the V&H coordinates method is used to determine mileage. This method is set forth in the EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 2 for Wire Center Information (V&H coordinates).

Mileage is shown in 6.8.1 following in terms of mileage bands. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, then find the band into which the computed mileage falls and apply the rate shown for that band. If the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band and applying the rates.

Exceptions to the mileage measurement rules are as follows:

- (A) Mileage for access minutes in the originating direction over Feature Group A Switched Access Service will be calculated on an airline basis, using the V&H coordinates method, between the end office switch where the Feature Group A switching dial tone is provided and the customer's serving wire center for the Switched Access Service provided.
- (B) When a non AT&T customer's premises is within five miles of an AT&T Class 4 office, the Local Transport mileage for a call which is carried over Switched Access Service, originating or terminating through an end office switch, shall be the distance as would be determined from that end office switch to the serving wire center for that AT&T Class 4 office unless the customer specifies that for an entire LATA, it wants all measurements

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.13 Mileage Measurement (Cont'd)

(B) (Cont'd)

determined from its serving wire center. This designation (i.e., which serving wire center to use in calculating mileage) may be changed only once in any 12 month period. Such change will be made without charge(s) to the customer.

- (C) When the Alternate Traffic Routing optional feature is provided with Feature Groups C and D, the Local Transport access minutes will be billed to the customer as set forth following.

The Local Transport access minutes will be apportioned between the two trunk groups used to provide this feature. Such apportionment will be made using standard Telephone Company traffic engineering methodology and will be based on the last trunk CCS desired for the high usage group, as described in 6.3.1(N) preceding, and the total busy hour minutes of capacity ordered to the end office, when the feature is provided at an end office switch, or to the subtending end offices when the feature is provided at an access tandem switch. This apportionment will serve as the basis for Local Transport mileage calculation.

- (D) When terminating Feature Group C Switched Access Service is provided from multiple customer premises to an end office not equipped with measurement capabilities, mileage will be calculated as set forth following and the customer will be billed accordingly.

The total Local Transport access minutes for that end office will be apportioned among the trunk groups accessing the end office on the basis of the individual busy hour minutes of capacity ordered for each of those trunk groups. This apportionment will serve as the basis for Local Transport mileage calculation.

6.7.14 Shared Use

Shared use occurs when Switched Access Service and Special Access Service are provided over the same analog or digital high capacity service through a common interface. The regulations governing the provision of Shared Use Facilities are set forth in 7. following.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.15 Equal Access and Network Reconfiguration Recovery Charge

The Equal Access and Network Reconfiguration Recovery Charge is a charge to recover those costs that the Telephone Company incurs solely in connection with equal access and network reconfiguration. Equal access costs represent the cost of equipping switching machines to handle FGD. Network reconfiguration costs represent the cost of rearranging the trunking network to accommodate the physical separation of AT&T's and the operating telephone companies' facilities and switching locations. Both costs are a result of divestiture and are a major cost of compliance with the modified Final Judgement (MFJ).

The Equal Access and Network Reconfiguration Recovery Charge is assessed to the customer based on the total number of access minutes. The rates are set forth in 6.8.6 following. The application of these rates with respect to individual Feature Groups is as set forth in 6.7.1(D) preceding.

6. Switched Access Service (Cont'd)

6.8 Rates and Charges

6.8.1 Local Transport

(A) Mileage Charge

<u>Call Miles</u>	<u>Rates Per Access Minute</u>
0 to 1	\$.0074
Over 1 to 8	.0130
Over 8 to 16	.0301
Over 16 to 25	.0558
Over 25 to 50	.0602
Over 50 to 100	.0562
Over 100	.0580

Nonrecurring
Charge

(B) Installation
 - Per Line or Trunk

\$175.00

Rate Per Call Blocked

(C) Network Blocking Charge +

\$.0150

(D) Nonchargeable Optional Features

(1) Supervisory Signaling

FID

DX Supervisory Signaling
 Arrangement
 - Per Transmission Path*

NCI ++DX+

SF Supervisory Signaling
 Arrangement
 - Per Transmission Path**

NCI ++SF+

E&M Type I Supervisory
 Signaling Arrangement
 - Per Transmission Path*

NCI ++EA+

E&M Type II Supervisory
 Signaling Arrangement
 - Per Transmission Path*

NCI ++EB+

+ Applies to FGD.

* Available with Interface Groups 1 and 2.

** Available with Interface Groups 2 and 6 through 10.

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.1 Local Transport (Cont'd)

(D) Nonchargeable Optional Features (Cont'd)

(1) Supervisory Signaling (Cont'd)

FID

E&M Type III Supervisory
Signaling Arrangement
- Per Transmission Path*

NCI ++EC+

Tandem Supervisory
Signaling Arrangement
- Per Transmission Path**

NCI ++EX+

(2) Customer Specification of the Receive
Transmission Level at the First Point
of Switching within a Range Acceptable
to the Telephone Company
- Per Transmission Path***

TLV

(3) Customer Specification of Local
Transport Termination

Four-Wire Termination in lieu of
Two-Wire Termination
- Per Transmission Path****

NC S+T+

- * Available with Interface Groups 1 and 2 for FGC and FGD.
** Available with Interface Group 2 for FGA.
*** Available with Interface Groups 2 through 10 for FGA and FGB. The range
of transmission levels which may be specified is described in Technical
Reference PUB 62500.
**** Available with Feature Group B with Type B Transmission Specifications.

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.2 End Office

(A) Local Switching

	<u>Rates Per Access Minute</u>
LS1 - Feature Groups A & B	\$.0065
LS2 - Feature Groups C & D	\$.0104

(1) Common Switching Nonchargeable Optional Features

FID

Call Denial on Line or
Hunt Group (Available
with FGA)
- Per Transmission Path
or Transmission Path
Group

CAD

Service Code Denial on
Line or Hunt Group
(Available with FGA)
- Per Transmission Path
or Transmission Path
Group

SCD

Hunt Group Arrangement
(Available with FGA)
- Per Transmission Path
Group

HML/HTG

Uniform Call Distribution
Arrangement (Available
with FGA)
- Per Transmission Path
Group

HTY UD

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(1) Common Switching Nonchargeable Optional Features
(Cont'd)

	<u>FID</u>
Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement (Available with FGA) - Per Transmission Path	NHN
Automatic Number Identifi- cation (Available with FGB, FGC and FGD) - Per Transmission Path Group	ANI
Up to 7 Digit Outpulsing of Access Digits to Customer (Available with FGB) - Per Transmission Path Group	USDO
Revertive Pulse Address Signaling (Available with FGC) - Per Transmission Path Group	ADS RP
Delay Dial Start-Pulsing Signaling (Available with FGC) - Per Transmission Path Group	DDSP
Immediate Dial Pulse Address Signaling (Available with FGC) - Per Transmission Path Group	ADS IDP

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(1) Common Switching Nonchargeable Optional Features
(Cont'd)

	<u>FID</u>
Dial Pulse Address Signaling (Available with FGC) - Per Transmission Path Group	ADS DP
Panel Call Indicator Address Signaling (Available with FGC) - Per Transmission Path Group	ADS PCI
Service Class Routing (Available with FGC and FGD) - Per Transmission Path Group	SCRT
Alternate Traffic Routing (Available with FGC and FGD) - Per Transmission Path Group	ARTG
Band Advance Arrangement for Use with WATS Access Lines (Available with FGC and FGD) - Per Arrangement	BAAD
End Office End User Line Service Screening for Use with WATS Access Lines (Available with FGC and FGD)* - Per Transmission Path	BAND

*This feature is required for originating only WATS Access Lines.

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(1) Common Switching Nonchargeable Optional Features
(Cont'd)

FID

Hunt Group Arrangement
for Use with WATS Access
Lines (Available with
FGC and FGD)

- Per Transmission Path
Group

HML/HTG

Uniform Call Distribution
Arrangement for Use with
WATS Access Lines (Available
with FGC and FGD)

- Per Transmission Path
Group

HTY UD

Nonhunting Number for
Use with Hunt Group
Arrangement or Uniform
Call Distribution
Arrangement for Use
with WATS Access Lines
(Available with FGC
and FGD)

- Per Transmission Path

NHN

(2) Transport Termination Nonchargeable Options

FID

(a) Line Side Terminations
(For FGA)

Two Way Operation

- Dial Pulse with Loop Start
- Dial Pulse with Ground Start
- DTMF with Loop Start
- DTMF with Ground Start

NC +++A

NC +++E

NC +++F

NC +++G

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(2) Transport Termination Nonchargeable Options (Cont'd)

FID

(a) Line Side Terminations
(For FGA) (Cont'd)

Terminating Operation

- Dial Pulse with Loop Start	NC +++N
- Dial Pulse with Ground Start	NC +++P
- DTMF with Loop Start	NC +++R
- DTMF with Ground Start	NC +++S

Originating Operation

- Loop Start	NC +++U
- Ground Start	NC +++V

(b) Trunk Side Terminations
(For FGB, FGC and FGD)

Standard Trunk

for Originating, Terminating or Two- Way Operation (Available with FGB, FGC and FGD)	TTC SO TTC ST TTC TY
--	----------------------------

Rotary Dial Station

Signaling Trunk (Available with FGB)	TTC RD
---	--------

Operator Trunk, Coin, Non-Coin or Combined Coin and Non-Coin (Available with FGC)	TTC CO
--	--------

Operator Trunk, Full Feature Arrangement (Available with FGD)	TTC FF
---	--------

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.2 End Office (Cont'd)

(B) Line Terminations

	<u>Rate Per</u> <u>Access Minute</u>	
(1) Common Line and WATS Access Line Terminations	\$.0083	
		<u>FID</u>
(2) WATS Access Line Termination Nonchargeable Options		
(a) Line Side Terminations:		
Originating Only Loop Start, Line Side Connection, with DTMF Address Signaling - Per Transmission Path		NC +++R
Originating Only Loop Start, Line Side Connection, with Dial Pulse Address Signaling - Per Transmission Path		NC +++N
Originating Only Ground Start, Line Side Connection, with DTMF Address Signaling - Per Transmission Path		NC +++S
Originating Only Ground Start, Line Side Connection, with Dial Pulse Address Signaling - Per Transmission Path		NC +++P
Terminating Only Loop Start, Line Side Connection - Per Transmission Path		NC +++U
Terminating Only Ground Start, Line Side Connection - Per Transmission Path		NC +++V

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.2 End Office (Cont'd)

(B) Line Terminations (Cont'd)

(3) Designed WATS Access Line
Terminations Chargeable Options

	<u>USOC</u>	<u>Monthly</u> <u>Rate</u>	<u>Nonrecurring</u> <u>Charge</u>
(a) <u>Trunk Side Terminations:</u>			
Originating Only			
Trunk Side			
Connection with			
Answer Supervision, with			
Loop Start Dial Tone			
Using Dial Pulse (DP),			
or Touch-Tone® (DTMF)			
Signaling			
- Per Original			
Transmission Path	UAS1X	\$20.72	\$104.80
- Per Each Additional			
Transmission Path	UASAX	17.05	60.83
			<u>FID</u>

(b) Trunk Side Terminations:

Terminating Only
 Trunk Side Connection
 for Forwarding of Dialed
 Number Identification
 to End User
 - Per Transmission Path

NC +++T

(C) Intercept

	<u>Rate Per 100 Access</u> <u>Minute</u>
Intercept Charge	\$.0158

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.3 Local Business Line Rates for Resold Service

The local business line rates that apply for arrangements provided as set forth in 6.7.3 preceding are the same as the local business exchange rates generally applicable to local business customers, as set forth in the general and/or local exchange service tariffs of the Telephone Company.

6.8.4 WATS Access Line Optional Feature

	<u>USOC</u>	
(A) Two-Wire/Four-Wire WATS Access Line		
- Two-Wire Line	X2W	
- Four-Wire Line	X4W	
(B) Improved Two-Wire Voice Transmission Specifications for Two-Wire WATS Access Line		<u>FID</u> NC SF++

6.8.5 Message Unit Credit

	<u>Per Originating Access Minute</u>
Message Unit Credit	(\$.00148)*

6.8.6 Equal Access and Network Reconfiguration Recovery Charge

	<u>Rates</u>
Rate Per Access Minute	\$.0051

* () equals a negative amount.

7. Special Access Service

7.1 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.

7.1.1 Channel Types

There are nine 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. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this tariff, there is no restriction against doing so.

Following is a brief description of each type of channel:

Metallic - a channel for the transmission of low speed varying signals at rates up to 30 baud.

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

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Telegraph Grade - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

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

Program Audio - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 50 to 15000 Hz, from 200 to 3500 Hz, from 100 to 5000 Hz or from 50 to 8000 Hz. Intrastate Program Audio service is restricted to non-broadcast applications.

Video - a channel for the transmission of a standard 525 line/60 field monochrome or National Television System Committee color video signal and one or two associated 5 or 15 kHz audio signals. The bandwidth for a Video channel is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz. Intrastate Video service is restricted to closed circuit application.

Wideband Analog - a channel for the transmission of wideband signals. The bandwidths are from 60 to 108 kHz (Group), from 312 to 552 kHz (Supergroup), from 564 to 3084 kHz (Mastergroup), from 300 Hz to 18 kHz, from 29 to 44 kHz or from 28 to 44 kHz.

Wideband Data - an analog channel for the transmission of synchronous serial data at rates of 19.2, 50.0 or 230.4 kbps or asynchronous serial data at rates of up to 19.2, 50.0 or 230.4 kbps.

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

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps.

Detailed descriptions of each of the channel types are provided in 7.2 following.

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

The customer also has the option of ordering Voice Grade and analog and digital high capacity facilities (i.e., Group, Supergroup, Mastergroup, 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to a Telephone 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 7.2 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 7.2 following.

For example, a customer may order a 3.152 Mbps facility from a customer designated premises to a Telephone Company Hub for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different Hub to Voice Grade or Wideband Analog (i.e., Group level) channels or may be extended to other customer designated premises. Optional features may be added to either the 1.544 Mbps or the Voice Grade Channels.

7.1.2 Rate Categories

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

- Channel Terminations (described in 7.1.2(A) following)
- Channel Mileage (described in 7.1.2(C) following)
- Optional Features and Functions (described in 7.1.2(E) following)

(A) 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

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Rate Categories (Cont'd)

(A) Channel Termination (Cont'd)

any. The signaling capability itself is provided as an optional feature as set forth in (E) 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 co-located in a Telephone Company building.

(B) Channel Mileage

The Channel Mileage rate category provides for the transmission facilities between the serving wire centers 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. Channel Mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

(C) 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.

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

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Rate Categories (Cont'd)

(C) Optional Features and Functions (Cont'd)

A Hub is a Telephone 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 7.2 following.

7.1.3 Service Configurations

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

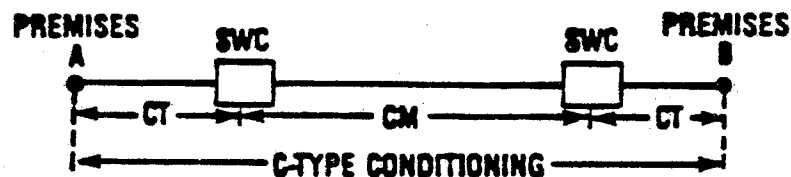
(A) Two-Point Service

A two-point service 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)

The following diagram depicts a two-point Voice Grade service connecting two customer designated premises located 15 miles apart. The service is provided with C-Type conditioning.



CT - CHANNEL TERMINATION
CM - CHANNEL MILEAGE
SWC - SERVING WIRE CENTER

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

Applicable rate elements are:

- Channel Terminations (2 applicable)
- Channel Mileage (mileage band over 8 to 25 miles)
- C-Type Conditioning Optional Feature

(B) 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 7.2 following.

Multipoint service utilizing a customized technical specifications package as set forth in 7.2 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 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 2.

This tariff identifies the type(s) of bridging functions which are available and the serving wire centers at which they are available.

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

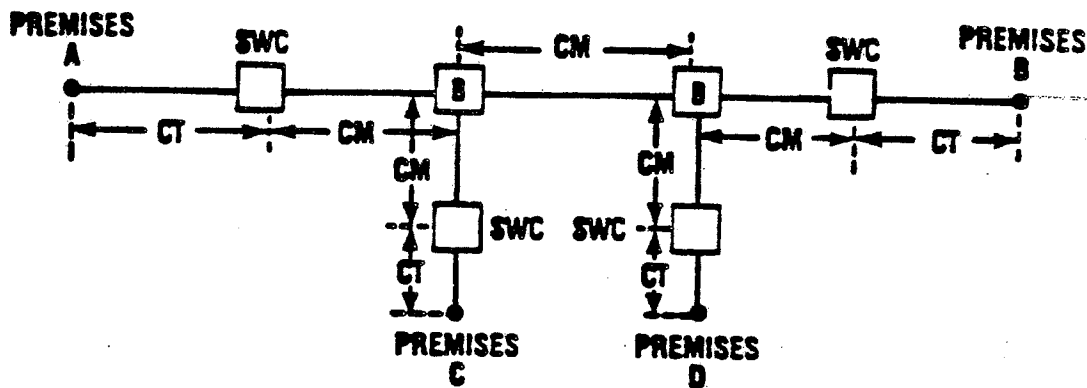
7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

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).

Example: Voice Grade multipoint service connecting four customer premises via two customer specified bridging hubs.



CT - CHANNEL TERMINATION
CM - CHANNEL MILEAGE
B - BRIDGING
SWC - SERVING WIRE CENTER

Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage (5 sections, each from appropriate mileage band)
- Bridging (6 applicable, i.e., each bridge port)

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 12., Specialized Service or Arrangements. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Channel Terminations, Channel Mileage [as applicable] and Optional Features [if any]).

7.1.5 Special Facilities Routing

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

7.1.6 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.

7.1.7 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:

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.7 Acceptance Testing (Cont'd)

- (A) 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 return loss) test will be made if the customer has ordered the improved loss optional feature.
- (B) For other analog services (i.e., Metallic Telegraph, Program Audio, Video, Wideband Analog and Wideband Data) 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 tests, Additional Cooperative Acceptance Testing for Voice Grade Service, to test other parameters, as described in 13.3.5(B) following, available at the customer's request. All tests results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions set forth in 5. 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.).

7.2 Service Descriptions

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

Metallic (MT)
Telegraph Grade (TG)
Voice Grade (VG)
Program Audio (AP)
Video (TV)
Wideband Analog (WA)
Wideband Data (WD)
Digital Data (DA)
High Capacity (HC)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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 a 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.

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or 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 Service. 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.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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 7.3.5 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 this 7.2. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

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 they 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 References for each category of service:

Metallic	PUB	62502
Telegraph Grade	PUB	62502
Voice Grade	PUB	62501 and associated Addendum
	PUB	41004, Table 4
Program Audio	PUB	62503 and associated Addendum
Video	PUB	62504 and associated Addendum
Wideband Analog	PUB	62505 and associated Addendum
Wideband Data	PUB	62506
Digital Data	PUB	62507 and associated Addendum
	PUB	62310
High Capacity	PUB	62508
	PUB	62411

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.1 Metallic Service

(A) Basic Channel Description

A Metallic channel is an unconditioned two-wire channel capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package MT</u>			
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>
DC Resistance				
Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X

The technical specifications are delineated in Technical Reference PUB 62502.

(C) Channel Interfaces

Compatible channel interfaces are set forth in 7.3.5(A) following.

(D) Optional Features and Functions

(1) Central Office Bridging Capability

(a) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.

(b) Series Bridging of up to 26 customer designated premises.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.1 Metallic Service (Cont'd)

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

	<u>Available with Technical Specifications Package MT-</u>			
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>
Three Premises Bridging	X	X		X
Series Bridging	X		X	

7.2.2 Telegraph Grade Service

(A) Basic Channel Description

A Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package TG-</u>		
	<u>C</u>	<u>1</u>	<u>2</u>
Telegraph Distortion	X	X	X

The technical specifications are delineated in Technical Reference PUB 62502.

(C) Channel Interfaces

Compatible channel interfaces are set forth in 7.3.5(B) following.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.2 Telegraph Grade Service (Cont'd)

(D) Optional Features and Functions

(1) Telegraph Bridging (two-wire and four-wire)

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

	Available with Technical Specifications Package TG-		
	C	1	2
	Telegraph Bridging	X	X

7.2.3 Voice Grade Service

(A) 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.

(B) Technical Specifications Packages

Parameter	Package VG-												
	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	
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.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(B) 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.

(C) 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 7.3.5(C) following.

(D) Optional Features and Functions

(1) Central Office Bridging Capability

- (a) Voice Bridging (two-wire and four-wire)
- (b) Data Bridging (two-wire and four-wire)
- (c) Telephoto Bridging (two-wire and four-wire)
- (d) DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports
- (e) Telemetry and Alarm Bridging

Split Band, Active Bridging
Passive Bridging
Summation, Active Bridging

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(2) Central Office Multiplexing

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

(3) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion.

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.

(a) 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:

Attenuation Distortion
(Frequency Response)
Relative to 1004 Hz

Frequency Variation
Range (Hz) (dB)

400-2800	-1.0 to +2.0
300-3000	-1.0 to +3.0
3000-3200	-2.0 to +6.0

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Conditioning (Cont'd)

(a) C-Type Conditioning (Cont'd)

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

(4) Improved Return Loss

- (a) 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.
- (b) 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.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(5) 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.
- 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.

(6) 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:

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(6) Telephoto Capability (Cont'd)

<u>Attenuation Distortion</u> (1004Hz Reference)		<u>Envelope Delay Distortion</u>	
<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>	<u>Frequency Range (Hz)</u>	<u>Variation (mcs)</u>
500-3000	-0.5 to +1.5	1000-2600	110
300-3200	-1.0 to +2.5	800-2800	180

(7) 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.

(8) Selective Signaling Arrangement

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

(9) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to another channel that terminates in either the same or a different customer premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(9) Transfer Arrangement (Cont'd)

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

	Available with Technical Specifications Package VG-												
	C	1	2	3	4	5	6	7	8	9	10	11	12
C-Type Conditioning Central Office Bridging Capability	X					X	X	X	X	X	X		
Central Office Multiplexing	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					
Selective Signaling Arrangement	X		X		X	X				X	X	X	
Signaling Capability	X	X	X	X				X	X	X			
Telephoto Capability	X										X		
Transfer Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	

7.2.4 Program Audio Service

(A) Basic Channel Description

A Program Audio channel is a channel measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub. Program Audio services offered in this tariff are restricted to non-broadcast applications.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 Program Audio Service (Cont'd)

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package AP-</u>				
	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking	X				
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency					
Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
Phase Tracking	X				
Short-Term Gain					
Stability	X				
Short-Term Loss	X				
Total Distortion	X	X	X	X	X

The technical specifications are delineated in Technical Reference PUB 62503 and associated Addendum.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Program Audio channel:

<u>CI</u>	<u>Bandwidth</u>
PG-1	Nominal frequency from 50 to 15000 Hz
PG-3	Nominal frequency from 200 to 3500 Hz
PG-5	Nominal frequency from 100 to 5000 Hz
PG-8	Nominal frequency from 50 to 8000 Hz

Compatible channel interfaces are set forth in 7.3.5(D) following.

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

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 Program Audio Service (Cont'd)

(D) Optional Features and Functions

(1) Central Office Bridging Capability

Distribution Amplifier

(2) Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0dB
 ± 0.5 dB.

(3) Stereo

Provision of a pair of gain/phase equalized channels for
 stereo applications. (Additional AP channel must be
 ordered separately.)

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

	Available with Technical Specifications Package AP-				
	C	1	2	3	4
Central Office Bridging Capability	X	X	X	X	X
Gain Conditioning	X	X	X	X	X
Stereo	X				X

7.2.5 Video Service

(A) Basic Channel Description

A Video channel is a channel with one-way transmission
 capability for a standard 525 line/60 field monochrome, or
 National Television Systems Committee color, video signal and
 one or two associated 5 or 15 kHz audio signal(s). The
 associated audio signal(s) may be either diplexed or provided
 as one or two separate channels. The bandwidth for a video
 channel is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz. The
 provision and the bandwidth of the associated audio signal(s)
 is a function of the channel interface selected by the

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.5 Video Service (Cont'd)

(A) Basic Channel Description (Cont'd)

customer. Video channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub. Intrastate Video channels offered in this tariff are restricted to close circuit application.

(B) Technical Specifications Packages

Parameter	Package TV-		
	C*	1	2
Amplitude vs. Frequency Response	X		
Chrominance/Luminance Inequalities			
Gain	X	X	X
Delay	X	X	X
Chrominance/Luminance Intermodulation	X		
Chrominance Nonlinear Gain	X		
Chrominance Nonlinear Phase	X		
Crosstalk	X		X
Differential Gain	X	X	X
Differential Phase	X	X	X
Dynamic Gain (picture and sync signal)	X		
Field-Time Distortion	X	X	X
Gain/Frequency Distortion	X	X	X
Gain Stability	X	X	X
Insertion Gain	X	X	X
Line-Time Distortion	X	X	X
Long-Time Distortion	X	X	X

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

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.5 Video Service (Cont'd)

(B) Technical Specifications Packages (Cont'd)

<u>Parameter</u>	<u>Package TV-</u>		
	<u>C*</u>	<u>1</u>	<u>2</u>
Luminance Nonlinearity	X		
Luminance Signal/CCIR Weighted Noise	X	X	X
Short-Time Distortion 2 T Pulse	X	X	X
T - Bar Ringing	X	X	X
Signal/15 kHz Flat Weighted Noise	X	X	X
Signal/Low Frequency Noise	X		
Stereo Gain Difference	X	X	
Stereo Phase Difference	X	X	
Total Harmonic Distortion	X	X	X
Transient Sync Signal Non-Linearity	X		
Video/Audio Delay Difference	X		

The technical specifications are delineated in Technical Reference PUB 62504 and associated Addendum.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bandwidth and the provision of the audio signal(s) associated with a Video channel:

<u>CI</u>	<u>Audio Bandwidth</u>	<u>Provision</u>
2TV6-1	15kHz	1 Channel, diplexed
2TV6-2	15kHz	2 Channels, diplexed
2TV7-1	15kHz	1 Channel, diplexed

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

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.5 Video Service (Cont'd)

(C) Channel Interfaces (Cont'd)

<u>CI</u>	<u>Audio Bandwidth</u>	<u>Provision</u>
2TV7-2	15kHz	2 Channels, diplexed
4TV6-5	5kHz	1 Channel, separate
4TV6-15	15kHz	1 Channel, separate
4TV7-5	5kHz	1 Channel, separate
4TV7-15	15kHz	1 Channel, separate
6TV6-5	5kHz	2 Channels, separate
6TV6-15	15kHz	2 Channels, separate
6TV7-5	5kHz	2 Channels, separate
6TV7-15	15kHz	2 Channels, separate

Compatible channel interfaces are set forth in 7.3.5(E) following.

7.2.6 Wideband Analog Service

(A) Basic Channel Description

A Wideband Analog channel is a channel with a bandwidth measured in kHz for the transmission of a wideband signal. The actual bandwidth is a function of the channel interface selected by the customer. Wideband Analog channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.6 Wideband Analog Service (Cont'd)

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package WA-</u>				
	<u>1</u>	<u>2</u>	<u>2A</u>	<u>3</u>	<u>4</u>
Amplitude Stability	X	X			
Background Noise	X	X	X	X	X
Frequency Shift	X	X	X		
Gain/Frequency Characteristics of:					
- Group Connections	X			X	X
- Supergroup Connections		X			
- Mastergroup Connections			X		
Impulse Noise	X	X	X		
Net Loss Variations	X	X	X	X	X
Pilot Slot	X	X	X		
Spurious Single Frequency Tone	X	X	X		

The technical specifications are delineated in Technical Reference PUB 62505 and associated Addendum.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Wideband Analog channel:

<u>CI</u>	<u>Bandwidth</u>
AH-B	60 kHz to 108 kHz (Group)
AH-C	312 kHz to 552 kHz (Supergroup)
AH-D	564 kHz to 3084 kHz (Mastergroup)
WD-1	300 Hz to 18 kHz
WD-2	28 kHz to 44 kHz
WD-3	29 kHz to 44 kHz

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.6 Wideband Analog Service (Cont'd)

Compatible channel interfaces are set forth in 7.3.5(F) following.

(D) Optional Features and Functions

(1) Central Office Multiplexing

(a) Mastergroup to Supergroup

An arrangement that converts a Mastergroup channel to ten Supergroup channels using frequency division multiplexing.

(b) Supergroup to Group

An arrangement that converts a Supergroup channel to five Group channels using frequency division multiplexing.

(c) Group to Voice

An arrangement that converts a Group channel to twelve Voice Grade channels using frequency division multiplexing.

(d) Group to DS1

An arrangement that converts two Group channels to a DS1 channel using analog to digital conversion.

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

	Available with Technical Specifications Package WA-				
	<u>1</u>	<u>2</u>	<u>2A</u>	<u>3</u>	<u>4</u>
Central Office Multiplexing:					
Mastergroup to Supergroup				X	
Supergroup to Group		X			
Group to Voice	X				
Group to DS1*					

* Requires two channels with technical specifications package WA1 to form a WA1T service.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.7 Wideband Data Service

(A) Basic Channel Description

A Wideband Data channel is an analog channel for the transmission of synchronous serial data at the rate of 19.2, 50.0, or 230.4 kbps or of asynchronous serial data at rates of up to 19.2, 50.0, or 230.4 kbps. Optional arrangements are available for transmission of synchronous serial data at 18.75 or 40.8 kbps. The actual bit rate is a function of the channel interface selected by the customer. This service requires a 303 Data Station(s). The 303 Data Station provides coupling between the customer's business machine and the wideband data transmission medium. A voiceband coordinating channel is also provided. Wideband Data channels are provided between customer designated premises.

(B) Technical Specifications Packages

Error-Free Seconds	Package WD-		
	<u>1</u>	<u>2</u>	<u>3</u>
	X	X	X

While in service, the monthly average of error-free seconds will be equal to or greater than 98.75%.

(C) Channel Interfaces

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

<u>CI</u>	<u>Bit Rate</u>
WB-18S	18.75 kbps, synchronous
WB-19A	up to 19.2 kbps, asynchronous
WB-19S	19.2 kbps, synchronous
WB-23A	up to 230.4 kbps, asynchronous
WB-23S	230.4 kbps, synchronous
WB-40S	40.8 kbps, synchronous
WB-50A	up to 50.0 kbps, asynchronous
WB-50S	50.0 kbps, synchronous

Compatible channel interfaces are set forth in 7.3.5(G) following.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.7 Wideband Data Service (Cont'd)

(D) Optional Features and Functions

(1) Key Activated Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A key activated control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

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

	<u>Available with Technical Specifications Package WD-</u>		
	<u>1</u>	<u>2</u>	<u>3</u>
Key Activated Transfer Arrangement	X	X	X

7.2.8 Digital Data Service

(A) 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, or 56 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 stream. Digital Data channels are only available via Telephone Company designated hubs and are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Data Service (Cont'd)

(A) Basic Channel Description (Cont'd)

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.

(B) 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 is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical Reference PUB 62310.

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

(C) Channel Interfaces

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

<u>CI</u>	<u>Bit Rate</u>
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-96	9.6 kbps
DU-56	56.0 kbps

Compatible channel interfaces are set forth in 7.3.5(H) following.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Data Service (Cont'd)

(D) Optional Features and Functions

(1) Central Office Bridging Capability

(2) Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company designated hub. A key activated or dial up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

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

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

7.2.9 High Capacity Service

(A) Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps* or 1.544, 3.152, 6.312, 44.736, or 274.176 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.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(A) Basic Channel Description (Cont'd)

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 PUB AS No. 1.

(B) 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 1.554 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

(C) 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-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

Compatible channel interfaces are set forth in 7.3.5(I) following.

* Available only as a channel of a 1.544 Mbps facility between two Telephone Company Digital Data Hubs or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 kbps channels of two 1.544 Mbps facilities at a Digital Data Hub. The customer must provide system and channel assignment data.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions

(1) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer premises. The customer is responsible for providing the equipment at its premises. Equipment at the customer premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

(2) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option.

(3) Central Office Multiplexing

(a) DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.

* A 64.0 kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Telephone Company Hub.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Central Office Multiplexing (Cont'd)

(b) DS3 to DS1

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

(c) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

(d) DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

(e) 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.

(f) DS1 to DS0

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

(g) 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.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Central Office Multiplexing (Cont'd)

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

	Available with Technical Specifications Package HC-					
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Automatic Loop Transfer		X				
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DS0		X				
DS0 to Substrate*	X					
Transfer Arrangement		X				

7.3 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.

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

7. Special Access Service (Cont'd)

7.3 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:

MT = 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)

7.3.1 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
DC	-	direct current or voltage
	- 1	monitoring interface with series RC combination (McCulloh format)
	- 2	Telephone Company energized alarm channel
	- 3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)
DD	-	DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE	-	DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.1 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 of the DS1 signal
	- 15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
	- 15G	8-bit PCM encoded in three 64 kbps of the DS1 signal
	- 15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
	- 15J	1.544 Mbps format per PUB 41451
	- 15K	1.544 Mbps format per PUB 41451 plus extended framing format
	- 15L	1.544 Mbps (DS1) with SF signaling
	- 27	274.176 Mbps (DS4)
	- 27L	274.176 Mbps (DS4) with SF signaling
	- 31	3.152 Mbps (DS1C)
	- 31L	3.152 Mbps (DS1C) with SF signaling
	- 44	44.736 Mbps (DS3)
	- 44L	44.736 Mbps (DS3) with SF signaling
	- 63	6.312 Mbps (DS2)
	- 63L	6.312 Mbps (DS2) with SF signaling
DU	-	digital access interface
	- 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
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

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
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 or customer's end user
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
LB	-	registered port open end
LB	-	end user loop start loop signaling - Type B OPS
LC	-	registered port open end
LC	-	end user loop start loop signaling - Type C OPS
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 loop signaling - closed end function by customer or customer's end user
NO	-	no signaling interface, transmission only
PG	-	program transmission - no dc signaling
	- 1	nominal frequency from 50 to 15000 Hz
	- 3	nominal frequency from 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

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

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
SF	-	single frequency signaling with VF band at either customer POT or customer's end user POT
TF	-	telephotograph interface
TT	-	telegraph/teletypewriter interface at either customer POT or customer's end user POT
	- 2	20.0 milliamperes
	- 3	3.0 milliamperes
	- 6	62.5 milliamperes
TV	-	television interface
	- 1	combined (diplexed) video and one audio signal
	- 2	combined (diplexed) video and two audio signals
	- 5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire
	- 15	video plus one (or two) audio 15 kHz signal(s)
WA	-	wideband bandwidth interface at customer's end user POT
	- 1	limited bandwidth
	- 2	nominal passband from 29000 to 44000 Hz
WB	-	wideband data interface at customer POT
	- 18S	18.75 kbps, synchronous
	- 19A	up to 19.2 kbps asynchronous
	- 19S	19.2 kbps synchronous
	- 23A	up to 230.4 kbps, asynchronous
	- 23S	230.4 kbps, synchronous
	- 40S	40.8 kbps, synchronous
	- 50A	up to 50.0 kbps, asynchronous
	- 50S	50.0 kbps, synchronous
WC	-	wideband data interface at customer's end user POT
	- 18	18.75 kbps, synchronous
	- 19	for 12-wire interface: 19.2 kbps, synchronous for 10-wire interface: up to 19.2 kbps, asynchronous
	- 23	up to 230.4 kbps, asynchronous
	- 23S	230.4 kbps, synchronous
	- 40	40.8 kbps, synchronous
	- 50	for 12-wire interface: 50.0 kbps, synchronous for 10-wire interface: up to 50.0 kbps, asynchronous
WD	-	wideband bandwidth interface at customer POT
	- 1	nominal passband from 300 to 18000 Hz
	- 2	nominal passband from 28000 to 44000 Hz
	- 3	nominal passband from 29000 to 44000 Hz

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.2 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

7.3.3 Digital Hierarchy Channel Interface Codes (4DS)

Customers selecting multiplexed four-wire DSX-1 or higher facility interface options 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
4DS9-31	3.152	DS1C
4DS0-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

+ 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. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.4 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:

<u>Service Designator Code</u>	<u>Network Channel Code</u>
MTC	MQ
MT1	NT
MT2	NU
MT3	NV
TGC	NQ
TG1	NW
TG2	NY
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
APC	PQ
AP1	PE
AP2	PF
AP3	PJ
AP4	PK
TVC	TQ
TV1	TV
TV2	TW
WA1	WJ
WA1T	WQ
WA2	WL
WA2A	WR
WA3	WN
WA4	WP
WD1	WB

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.4 Service Designator/Network Channel Code Conversion Table
(Cont'd)

<u>Service Designator Code</u>	<u>Network Channel Code</u>
WD2	WE
WD3	WF
DA1	XA
DA2	XB
DA3	XG
DA4	XH
HCO	HS
HC1	HC
HC1C	HD
HC2	HE
HC3	HF
HC4	HG

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces

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

(A) Metallic

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH5-B	2DC8-1	4AH6-D	2DC8-2
4AH5-B	2DC8-2	2DC8-1	2DC8-2
4AH6-C	2DC8-1	2DC8-3	2DC8-3
4AH6-C	2DC8-2	4DS8-*	2DC8-1
4AH6-D	2DC8-1	4DS8-*	2DC8-2

(B) Telegraph Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH5-B	10IA8	4AH6-D	4TT2-6	4DB2-43+	4TT2-2
4AH5-B	2TT2-2	2DB2-10	10IA8	4DS8-*	10IA8
4AH5-B	4TT2-2	2DB2-10	2TT2-2	4DS8-*	2TT2-2
4AH5-B	2TT2-6	2DB2-10	4TT2-2	4DS8-*	4TT2-2
4AH5-B	4TT2-6	2DB2-43+	10IA8	4DS8-*	2TT2-6
4AH6-C	10IA8	2DB2-43+	2TT2-2	4DS8-*	4TT2-6
4AH6-C	2TT2-2	2DB2-43+	2TT2-6	2TT2-2	2TT2-2
4AH6-C	4TT2-2	2DB2-43+	4TT2-2	2TT2-3	2TT2-2
4AH6-C	2TT2-6	4DB2-10	10IA8	2TT2-3	4TT2-2
4AH6-C	4TT2-6	4DB2-10	2TT2-2	2TT2-6	2TT2-6
4AH6-D	10IA8	4DB2-10	4TT2-2	2TT2-6	4TT2-2
4AH6-D	2TT2-2	4DB2-43+	10IA8	4TT2-2	4TT2-2
4AH6-D	4TT2-2	4DB2-43+	2TT2-6	4TT2-6	2TT2-6
4AH6-D	2TT2-6				

* See 7.3.3 preceding for explanation.

+ Supplemental Channel Assignment information required.

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade

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

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH6-C	6EA2-M	4AH6-D	6GS2	4AH5-B	2LO3
4AH6-C	4EA2-E	4AH6-D	4GS2	4AH5-B	2LO2
4AH6-C	4EA2-M	4AH6-D	2GS3		
4AH5-B	9EA2	4AH6-D	2GS2	4AH6-D	4LR2
4AH5-B	9EA3	4AH6-C	6GS2	4AH6-D	2LR2
4AH5-B	6EA2-E	4AH6-C	4GS2	4AH6-C	4LR2
4AH5-B	6EA2-M	4AH6-C	2GS3	4AH6-C	2LR2
4AH5-B	4EA2-E	4AH6-C	2GS2	4AH5-B	4LR2
4AH5-B	4EA2-M	4AH5-B	6GS2	4AH5-B	2LR2
		4AH5-B	4GS2		
4AH6-D	8EB2-E	4AH5-B	2GS3	4AH6-D	6LS2
4AH6-D	8EB2-M	4AH5-B	2GS2	4AH6-D	4LS2
4AH6-D	6EB2-E			4AH6-D	2LS2
4AH6-D	6EB2-M	4AH6-D	2LA2	4AH6-D	2LS3
4AH6-C	8EB2-E	4AH6-C	2LA2	4AH6-C	6LS2
4AH6-C	8EB2-M	4AH5-B	2LA2	4AH6-C	4LS2
4AH6-C	6EB2-E			4AH6-C	2LS2
4AH6-C	6EB2-M	4AH6-D	2LB2	4AH6-C	2LS3
4AH5-B	8EB2-E	4AH6-C	2LB2	4AH5-B	6LS2
4AH5-B	8EB2-M	4AH5-B	2LB2	4AH5-B	4LS2
4AH5-B	6EB2-E			4AH5-B	2LS2
4AH5-B	6EB2-M	4AH6-D	2LC2	4AH5-B	2LS3
		4AH6-C	2LC2		
		4AH5-B	2LC2		
4AH6-D	2G02				
4AH6-D	2G03				
4AH6-C	2G02	4AH6-D	2LO3		
4AH6-C	2G03	4AH6-D	2LO2		
4AH5-B	2G02	4AH6-C	2LO3		
4AH5-B	2G03	4AH6-C	2LO2		

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH6-D	4NO2	4AH6-D	4TF2	2CT3	8EB2-E
4AH6-D	2NO2	4AH6-D	2TF2	2CT3	8EB2-M
4AH6-C	4NO2	4AH6-C	4TF2		
4AH6-C	2NO2	4AH6-C	2TF2	2CT3	6EB2-E
4AH5-B	4NO2	4AH5-B	4TF2	2CT3	6EB2-M
4AH5-B	2NO2	4AH5-B	2TF2	2CT3	6EB3-E
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	2CT3	4DX3		
4AH5-B	2PR2			6DA2	6DA2
				6DA2	4DA2
		2CT3	9DY3	4DA2	4DA2
4AH6-D	4RV2-T	2CT3	6DY3		
4AH6-D	2RV2-T	2CT3	9DY2		
4AH6-C	4RV2-T	2CT3	6DY2	4DB2	6DA2
4AH6-C	2RV2-T	2CT3	4DY2	4DB2	4DA2
4AH5-B	4RV2-T	2CT3	2DY2	4DB2	2DA2
4AH5-B	2RV2-T			2DB3	2DA2
		2CT3	9EA3	2DB2	2DA2
		2CT3	9EA2		
4AH6-D	4SF2	2CT3	6EA2-E	4DB2	4DB2
4AH6-C	4SF2	2CT3	6EA2-M		
4AH5-B	4SF2	2CT3	4EA2-E	4DB2	4NO2
4AH6-D	4SF3	2CT3	4EA2-M	4DB2	2NO2
4AH6-C	4SF3			4DB2	2NO2
4AH5-B	4SF3				
				4DB2	4PR2
				4DB2	2PR2
				4DB2	2PR2

* See 7.3.3 preceding for explanation.

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

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

+ Available to customers selecting the multiplexed 4-wire High Capacity analog channel interface option and providing subsequent system and channel assignment data.

*See 7.3.3 preceding for explanation.

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) 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
4DS8-*	2G02			4DX2	4DY2
4DS8-*	2G03	4DS8-*	4RV2-T	4DX3	4DY2
		4DS8-*	2RV2-T	4DX2	2DY2
				4DX3	2DY2
4DS8-*	6GS2				
4DS8-*	4GS2	4DS8-*	4SF2		
4DS8-*	2GS2	4DS8-*	4SF3	6DX2	9EA3
4DS8-*	2GS3			6DX2	9EA2
		4DS8-*	4TF2	6DX2	6EA2-E
4DS8-*	2LA2	4DS8-*	2TF2	6DX2	6EA2-M
				6DX2	4EA2-E
4DS8-*	2LB2	4DX2	4DX2	6DX2	4EA2-M
		4DX3	4DX2	4DX2	9EA2
4DS8-*	2LC2	4DX3	4DX3	4DX3	9EA2
				4DX2	9EA3
4DS8-*	2LO2	6DX2	9DY3	4DX3	9EA3
4DS8-*	2LO3	6DX2	9DY2	4DX2	6EA2-E
		6DX2	6DY3	4DX3	6EA2-E
4DS8-*	4LR2	6DX2	6DY2	4DX2	6EA2-M
4DS8-*	2LR2	6DX2	4DY2	4DX3	6EA2-M
		6DX2	2DY2	4DX2	4EA2-E
4DS8-*	6LS2	4DX2	9DY3	4DX3	4EA2-E
4DS8-*	4LS2	4DX3	9DY3	4DX2	4EA2-M
4DS8-*	2LS2	4DX2	9DY2	4DX3	4EA2-M
4DS8-*	2LS3				

* See 7.3.3 preceding for explanation.

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<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
		4DX3	2RV2-T	4DY2	4DY2
4DX2	2LA2	4DX2	2RV2-T		
4DX3	2LA2			6EA2-E	4AC2
2DX3	2LA2			6EA2-M	4AC2
		6DX2	4SF2	6EA2-E	2AC2
4DX2	2LB2	4DX2	4SF2	6EA2-M	2AC2
4DX3	2LB2	4DX3	4SF2		
2DX3	2LB2	4DX2	4SF3		
		4DX3	4SF3	9EA2	9DY3
				9EA2	9DY2
4DX2	2LC2			9EA2	6DY3
4DX3	2LC2	9DY3	9DY3	9EA2	6DY2
2DX3	2LC2	9DY3	9DY2	9EA2	4DY2
		9DY2	9DY2	9EA2	2DY2
4DX2	2L03	9DY3	6DY3	9EA2	2DY2
4DX3	2L03	9DY3	6DY2	9EA3	9DY3
2DX3	2L03	9DY2	6DY2		

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) 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	8EB2-M
6EA2-E	9DY2	9EA2	9EA2	9EA2	6EB2-E
6EA2-E	6DY3	9EA2	9EA3	9EA2	6EB2-M
6EA2-E	6DY2	9EA2	6EA2-E	9EA3	8EB2-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-E	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
4EA3-E	6DY2	6EA2-M	4EA2-E	4EA3-E	8EB2-E
4EA3-E	4DY2	6EA2-M	4EA2-M	4EA3-E	8EB2-M
4EA3-E	2DY2	4EA2-E	4EA2-E	4EA2-E	6EB2-E
4EA2-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	4EA3-E	4EA2-M	4EA2-M	8EB2-E
4EA2-M	9DY3	4EA2-E	4EA2-M		

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<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	4RV2-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

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) 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	8EC2	4SF2
6EB3-E	8EB2-E	8EB2-E	4SF2	6EX2-B	2G03
6EB3-E	8EB2-M	8EB2-M	4SF2	6EX2-A	6GS2
6EB2-M	6EB2-M	8EB2-E	4SF3	6EX2-A	4GS2
8EB2-E	2LA2	8EB2-M	4SF3	6EX2-A	2GS2
8EB2-M	2LA2	6EB3-E	4SF2	6EX2-A	2GS3
8EB2-E	2LB2	6EB2-E	4SF2	6EX2-A	2GS3
8EB2-M	2LB2	6EB2-M	4SF2	6EX2-B	2LA2
8EB2-E	2LC2	8EC2	9DY2	6EX2-B	2LB2
8EB2-M	2LC2	8EC2	9DY3	6EX2-B	2LC2
8EB2-E	2LO3	8EC2	6DY2	6EX2-B	2LO2
8EB2-M	2LO3	8EC2	6DY3	6EX2-B	2LO3
8EB2-E	6LS2	8EC2	4DY2	6EX2-B	4LR2
8EB2-M	6LS2	8EC2	2DY2	6EX2-B	2LR2
8EB2-E	4LS2	8EC2	9EA2	6EX2-A	6LS2
8EB2-M	4LS2	8EC2	9EA3	6EX2-A	4LS2
8EB2-E	2LS2	8EC2	6EA2-E	6EX2-A	2LS2
8EB2-M	2LS2	8EC2	6EA2-M	6EX2-A	2LS3
8EB2-E	2LS3	8EC2	4EA2-E	6EX2-A	2LS3
8EB2-M	2LS3	8EC2	4EA2-M	8EB2-E	

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EX2-A	4SF2	6L02	6LS2	4LR2	4SF2
6EX2-B	4SF2	6L02	4LS2	4LR3	4SF2
		6L02	2LS2		
6G02	6GS2	6L02	2LS3	6LS2	2LA2
6G02	4GS2	4L02	6LS2	4LS2	2LA2
6G02	2GS2	4L02	4LS2	4LS3	2LA2
6G02	2GS3	4L03	6LS2	2LS2	2LA2
4G02	6GS2	4L03	4LS2	2LS3	2LA2
4G03	6GS2	4L03	2LS3		
4G02	4GS2	4L03	2LS2	6LS2	2LB2
4G03	4GS2	4L02	2LS2	4LS2	2LB2
4G02	2GS2	4L02	2LS3	4LS3	2LB2
4G02	2GS3	2L03	2LS3	2LS2	2LB2
4G03	2GS2	2L03	2LS2	2LS3	2LB2
4G03	2GS3	2L02	2LS2		
2G02	2GS2	2L02	2LS3	6LS2	2LC2
2G03	2GS2			4LS2	2LC2
2G02	2GS3	6L02	4SF2	4LS3	2LC2
2G03	2GS3	4L02	4SF2	2LS2	2LC2
		4L03	4SF2	2LS3	2LC2
6G02	4SF2				
4G02	4SF2	4LR3	4LR2	6LS2	2L03
4G03	4SF2	4LR3	2LR2	6LS2	2L02
		4LR2	4LR2	4LS2	2L02
6GS2	2G02	4LR2	2LR2	4LS2	2L03
4GS2	2G02	2LR2	2LR2	4LS3	2L02
4GS3	2G02	2LR3	2LR2	4LS3	2L03
4GS2	2G03				

Northwestern Bell
 Telephone Company
 State of North Dakota
 Issued: November 15, 1985

ACCESS
 SERVICE TARIFF

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6LS2	4SF2	4SF2	9DY3	4SF3	2LA2
4LS3	4SF2	4SF3	6DY3	4SF2	2LB2
		4SF2	6DY2	4SF3	2LB2
4NO2	6DA2	4SF2	6DY3		
4NO2	4DA2	4SF3	6DY2	4SF2	2LC2
4NO2	2DA2	4SF2	4DY2	4SF3	2LC2
2NO2	2DA2	4SF3	4DY2		
		4SF3	2DY2	4SF2	2LO3
4NO2	4DE2	4SF2	2DY2	4SF3	2LO3
4NO2	2DE2				
		4SF3	9EA2	4SF2	2LR2
4NO2	4NO2	4SF3	9EA3	4SF3	4LR2
4NO2	2NO2	4SF3	4EA2-E	4SF3	2LR2
2NO2	2NO2	4SF3	4EA2-M		
2NO3	2NO2			4SF3	6LS2
		4SF3	6EB2-E	4SF2	4LS2
2NO3	2PR2	4SF3	6EB2-M	4SF3	4LS2
				4SF2	2LS2
4RV2-0	4RV2-T	4SF2	2G03	4SF2	2LS3
4RV2-0	2RV2-T			4SF3	2LS2
2RV2-0	2RV2-T	4SF3	6GS2	4SF3	2LS3
		4SF2	6GS2		
4RV2-0	4SF2	4SF2	4GS2	4SF3	4RV2-T
		4SF3	4GS2	4SF2	4RV2-T
4SF2	4AC2	4SF2	2GS2	4SF2	2RV2-T
4SF2	2AC2	4SF2	2GS3	4SF3	2RV2-T
		4SF3	2GS2		
4SF3	9DY3	4SF3	2GS3	4SF3	4SF3
4SF2	9DY2				
4SF3	9DY2	4SF2	2LA2		

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs

4SF3	4SF2
4SF2	4SF2
4TF2	4TF2
4TF2	2TF2
2TF3	2TF2

(D) Program Audio

Compatible CIs

4AH5-B	2PG1-3
4AH5-B	2PG1-5
4AH5-B	2PG1-8
4AH5-B	2PG2-3
4AH5-B	2PG2-5
4AH5-B	2PG2-8
4AH6-C	2PG1-3
4AH6-C	2PG1-5
4AH6-C	2PG1-8
4AH6-C	2PG2-3
4AH6-C	2PG2-5
4AH6-C	2PG2-8

Compatible CIs

4AH6-D	2PG1-3
4AH6-D	2PG1-5
4AH6-D	2PG1-8
4AH6-D	2PG2-3
4AH6-D	2PG2-5
4AH6-D	2PG2-8
4DS8-15E	2PG1-3
4DS8-15F	2PG1-5
4DS8-15G	2PG1-8
4DS8-15H	2PG1-1
4DS8-15E	2PG2-3

Compatible CIs

4DS8-15F	2PG2-5
4DS8-15G	2PG2-8
4DS8-15H	2PG2-1
2PG2-1	2PG1-1
2PG2-1	2PG2-1
2PG2-3	2PG1-3
2PG2-3	2PG2-3
2PG2-5	2PG1-5
2PG2-5	2PG2-5
2PG2-8	2PG1-8
2PG2-8	2PG2-8

(E) Video

Compatible CIs

2TV6-1	4TV6-15
2TV6-1	4TV7-15
2TV6-2	6TV6-15
2TV6-2	6TV7-15
2TV7-1	4TV6-15
2TV7-1	4TV7-15
2TV7-2	6TV6-15
2TV7-2	6TV7-15

Compatible CIs

4TV6-5	4TV6-5
4TV6-5	4TV7-5
4TV6-15	4TV6-15
4TV6-15	4TV7-15
4TV7-15	4TV6-15
4TV7-15	4TV7-15
4TV7-5	4TV6-5
4TV7-5	4TV7-5

Compatible CIs

6TV6-5	6TV6-5
6TV6-5	6TV7-5
6TV6-15	6TV6-15
6TV6-15	6TV7-15
6TV7-5	6TV6-5
6TV7-5	6TV7-5
6TV7-15	6TV6-15
6TV7-15	6TV7-15

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(F) Wideband Analog

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH5-B	4AH5-B	4AH6-D	4AH6-D	4WD5-1	4WA5-1
4AH6-C	4AH5-B	4AH5-B	4DS8-15	4WD5-2	4WA5-1
4AH6-C	4AH6-C	4AH5-B	4DU8-A,B,C	4WD5-3	4WA5-2
4AH6-D	4AH5-B	4AH6-C	4DU8-A,B,C		
4AH6-D	4AH6-C	4AH6-D	4DU8-A,B,C		

(G) Wideband Data

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
8WB5-18S	12WC6-18	8WB5-23A	10WC6-23	8WB5-50A	10WC6-50
8WB5-19A	10WC6-19	8WB5-23S	12WC6-23S	8WB5-50S	12WC6-50
8WB5-19S	12WC6-19	8WB5-40S	12WC6-40		

(H) Digital Data

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

(I) High Capacity

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS0-63	4DS0-63	4DS8-15	6DU8-B
4DS0-63	6DU8-A,B or C	4DS8-15	4DU8-B
4DS0-63	4DU8-A,B or C	4DS8-15J	6DU8-A
4DS6-27	4DS6-27	4DS8-15J	4DU8-A
4DS6-27	6DU8-A,B or C	4DS8-15K	6DU8-B
4DS6-27	4DU8-A,B or C	4DS8-15K	4DU8-B
4DS6-44	4DS6-44	4DS8-15K	6DU8-C
4DS6-44	6DU8-A,B or C	4DS8-15K	4DU8-C
4DS6-44	4DU8-A,B or C	4DS9-31	4DS9-31
4DS8-15	4DS8-15+	4DS9-31	6DU8-A,B or C
4DS8-15J	4DS8-15J	4DS9-31	4DU8-A,B or C
4DS8-15K	4DS9-15K	4DU8-A,B or C	4DU8-A,B or C

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

7. Special Access Service (Cont'd)

7.4 Rate Regulations

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

7.4.1 Types of Rates and Charges

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

(A) Monthly Rates

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

(B) Daily Rates

Daily rates are flat recurring rates that apply to each 24 hour period or fraction thereof that a Program Audio or Video Special Access Service is provided for part-time or occasional use. For purposes of applying daily rates, the 24 hour period is not limited to a calendar day.

The application of daily rates for Program Audio and Video service during a consecutive 30 day period is as follows. Daily rates will be applied up to an amount equal to the monthly rate (i.e., the charge to the customer for usage billed at daily rates will not exceed the monthly rate). For each day or part day of usage after the daily rates have reached the monthly rate, a charge equal to 1/30th of the monthly rate will apply.

(C) 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.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set forth in 7.5 following as a nonrecurring charge for the Channel Termination rate element.

(2) 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 the service.

(3) 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 from one type of Special Access Service to another or a change from one type of channel termination to another) or a change in the physical location of the point of termination at a customer designated premises. Changes in the type of service or Channel Termination are treated as disconnects and starts. 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 7.4.3 following.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

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

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 of agency authorization,
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number and
- Change of jurisdiction.

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.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) 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.

7.4.2 Minimum Periods

The minimum service period for all services is one month.

7.4.3 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

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.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.3 Moves (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 (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 services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

7.4.4 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.

Mileage is shown in 7.5 following in terms of mileage bands. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 2, then find the band into which the computed mileage falls and apply the rates shown for that band. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band and applying the rates.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.4 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.

7.4.5 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., Telegraph Voice, Program Audio, 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. When ordering, the customer will specify the desired multiplexing Hub(s) selected from the EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 2. This tariff identifies the type(s) of multiplexing functions which are available and the serving wire centers at which they are available.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- 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.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.5 Facility Hubs (Cont'd)

The Telephone Company will commence billing the monthly rate for the facility to the Hub on the service due 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 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.

Although not requiring multiplexing, the Telephone Company will designate certain Hubs for Video and Program Audio Services. Full-time service will be provided between a customer designated premises and a Hub and billed accordingly at the monthly rates set forth in 7.5.4, and 7.5.5 following for a Channel Termination, Optional Features and Functions, and Channel Mileage, as applicable. Video and Program Audio services are offered on a full time basis only.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.6 Shared Use Analog and Digital High Capacity Services

Shared use occurs when Special Access Service and Switched Access Service are provided over the same Wideband Analog or High Capacity facilities through a common interface. The facility will be ordered, 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 Access Wideband Analog or 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., WA1) 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 in 6.8, 6.9, 6.10, 6.11 and 6.12 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 use facility to the Hub, Wideband Analog or 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, Telegraph, 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 7.5 following.

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7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota

7.5.1 Metallic Service

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(A) Channel Termination - Per point of termination	T6ECS	\$11.75	\$242.40

(B) Channel Mileage

<u>Mileage Bands</u>	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
0	1L5XX	ICB	None
Over 0 to 4	1L5XX	ICB	\$3.55
Over 4 to 8	1L5XX	ICB	\$3.55
Over 8 to 25	1L5XX	ICB	\$3.55
Over 25 to 50	1L5XX	ICB	\$3.55
Over 50	1L5XX	ICB	\$3.55

(C) Optional Features and Functions

(1) Bridging

(a) Three Premises
 Bridging
 - Per port

<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
BCNM3	\$2.90	None

(b) Series Bridging
 - Per port

<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
BCNMS	\$2.90	\$5.20

7. Special Access Service (Cont'd)

7.5. Rates and Charges for the State of North Dakota (Cont'd)

7.5.2 Telegraph Grade Service

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(A) Channel Termination			
- Per point of termination			
- Two-Wire	T6E2X	\$19.35	\$297.05
- Four-Wire	T6E4X	\$38.70	\$297.05
(B) Channel Mileage			
		<u>Monthly Rates</u>	
<u>Mileage Bands</u>	<u>USOC</u>	<u>Fixed</u>	<u>Per Mile</u>
0	1L5XX	None	None
Over 0 to 4	1L5XX	\$18.75	\$1.70
Over 4 to 8	1L5XX	\$26.75	\$1.70
Over 8 to 25	1L5XX	\$34.60	\$1.70
Over 25 to 50	1L5XX	\$42.50	\$1.70
Over 50	1L5XX	\$26.35	\$1.70
(C) Optional Features and Functions			
	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(1) Telegraph Bridging			
Two-Wire and Four-Wire			
- Per port			
- Two-Wire	BCNT2	\$ 1.95	\$5.20
- Four-Wire	BCNT4	\$ 3.85	\$9.60

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.3 Voice Grade Service

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(A) Channel Termination			
- Per Point of Termination			
- Two-Wire	T6E2X	\$16.25	\$297.05
- Four-Wire	T6E4X	\$27.95	\$297.05

(B) Channel Mileage

<u>Mileage Bands</u>	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
0	1L5XX	None	None
Over 0 to 4	1L5XX	\$20.65	\$2.00
Over 4 to 8	1L5XX	\$29.65	\$2.00
Over 8 to 25	1L5XX	\$38.35	\$2.00
Over 25 to 50	1L5XX	\$47.00	\$2.00
Over 50	1L5XX	\$39.80	\$2.00

(C) Optional Features and Functions

<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
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(1) Bridging

(a) Voice Bridging

Two-Wire/Four-Wire

- Per port			
- Two-Wire	BCNV2	\$ 1.00	\$5.20
- Four-Wire	BCNV4	\$ 1.00	\$9.60

(b) Data Bridging

Two-Wire/Four-Wire

- Per port			
- Two-Wire	BCND2	\$ 1.00	\$5.20
- Four-Wire	BCND4	\$ 1.00	\$9.60

(c) Telephoto Bridging

Two-Wire/Four-Wire

- Per port			
- Two-Wire	BCNF2	\$ 1.00	\$5.20
- Four-Wire	BCNF4	\$ 1.00	\$9.60

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

(C) Optional Features and Functions (Cont'd)

<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
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(1) Bridging (Cont'd)

(d) DATAPHONE Select-A-Station Bridging

Sequential Arrangement Ports

- Per 2-wire channel connected	DQ2	ICB	ICB
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- Per 4-wire channel connected	DQ4	ICB	ICB
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Addressable Arrangement Ports

- Per 2-wire channel connected	KQ2	ICB	ICB
--------------------------------	-----	-----	-----

- Per 4-wire channel connected	KQ4	ICB	ICB
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(e) Telemetry and Alarm Bridging

Active Bridging Channel Connections

Split Band

- Per channel connected	CNLRX	ICB	ICB
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7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C) Optional Features and Functions (Cont'd)			
(1) Bridging (Cont'd)			
(e) <u>Telemetry and Alarm Bridging</u> (Cont'd)			
Summation			
- Per channel connected	BCNSA	ICB	ICB
Passive Bridging Channel Connections			
- Per channel connected	BCNTP	ICB	ICB
(2) Conditioning			
- Per point of termination			
C - Type	X1CPT	\$ 1.20	\$19.50
(3) Improved Return Loss for Effective Two-Wire or Four-Wire Transmission			
- Per point of termination			
- Two-Wire	1RL2W	\$ 4.55	\$22.80
- Four-Wire	1RL4W	\$ 4.55	\$22.80
(4) Multiplexing			
Voice to Telegraph Grade			
- Per arrangement	MQX	\$162.75	\$38.75

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C) Optional Features and Functions (Cont'd)			
(5) Data Capability - Per point of termination	XDCPT	\$ 3.50	\$16.00
(6) Telephoto Capability - Per point of termination	XTCPT	\$ 5.45	\$42.25
(7) Signaling Capability - Per point of termination	XSS++	\$ 8.00	\$25.80

- In lieu of ++, substitute appropriate two digit code from following list to specify type of signaling.

- AB
- AC
- CT
- DX
- DY
- EA
- EB
- EC
- EX
- GO
- GS
- LA
- LB
- LC
- LO
- LR
- LS
- RV
- SF

(8) Selective Signaling Arrangement - Per arrangement	USZ	\$14.30	ICB
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7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C) Optional Features and Functions (Cont'd)			
(9) Transfer Arrangement (key activated* or dial-up**)			
- Per four port arrangement including control channel termination***	USY	\$5.35	\$16.35
- Per five port arrangement including control channel termination***	US5	\$7.45	\$18.60

* The key activated control channel is rated as a Metallic Channel Termination (use USOC T6EME in lieu of T6ECS) and Channel Mileage, if applicable (use USOC 1L5MX in lieu of 1L5XX).

** The Dial-up option requires the customer to purchase the Controller Arrangement (USOC XTDDU) from 13.3.8 following.

*** An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customers premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.

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7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.4 Program Audio Service

(A)	Channel Termination - Per point of termination	USOC	Monthly	Nonrecurring
			Rates	Charges Monthly
	- 200 to 3500 Hz	T6ECS	\$16.50	ICB
	- 100 to 5000 Hz	T6ECS	\$24.90	ICB
	- 50 to 8000 Hz	T6ECS	\$28.85	ICB
	- 50 to 15000 Hz	T6ECS	\$32.60	ICB

(B) Channel Mileage

(1) 200 to 3500 Hz

Mileage Bands

	USOC	Monthly Rates	
		Fixed	Per Mile
0	1L5XX	None	None
Over 0 to 4	1L5XX	\$15.50	\$1.75
Over 4 to 8	1L5XX	\$21.50	\$1.75
Over 8 to 25	1L5XX	\$27.50	\$1.75
Over 25 to 50	1L5XX	\$34.00	\$1.75
Over 50	1L5XX	\$21.00	\$1.75

(2) 100 to 5000 Hz

Mileage Bands

	USOC	Monthly Rates	
		Fixed	Per Mile
0	1L5XX	None	None
Over 0 to 4	1L5XX	\$20.60	\$3.70
Over 4 to 8	1L5XX	\$20.60	\$3.70
Over 8 to 25	1L5XX	\$20.60	\$3.70
Over 25 to 50	1L5XX	\$20.60	\$3.70
Over 50	1L5XX	\$20.60	\$3.70

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.4 Program Audio Service (Cont'd)

(B) Channel Mileage
 (Cont'd)

(3) 50 to 8000 Hz

Mileage Bands

	USOC	Monthly Rates	
		Fixed	Per Mile
0	1L5XX	None	None
Over 0 to 4	1L5XX	\$21.65	\$3.85
Over 4 to 8	1L5XX	\$21.65	\$3.85
Over 8 to 25	1L5XX	\$21.65	\$3.85
Over 25 to 50	1L5XX	\$21.65	\$3.85
Over 50	1L5XX	\$21.65	\$3.85

(4) 50 to 15000 Hz

Mileage Bands

0	1L5XX	None	None
Over 0 to 4	1L5XX	\$22.70	\$3.95
Over 4 to 8	1L5XX	\$22.70	\$3.95
Over 8 to 25	1L5XX	\$22.70	\$3.95
Over 25 to 50	1L5XX	\$22.70	\$3.95
Over 50	1L5XX	\$22.70	\$3.95

(C) Optional Features and Functions

	USOC	Monthly Rates	Nonrecurring Charges
(1) Bridging (Distribution Amplifier) - Per port	BCNPT	\$10.05	\$5.20
(2) Gain Conditioning - Per service	XGC	\$ 9.85	ICB
(3) Stereo - Per service	XSC	None	ICB

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7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.5 Video Service

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges Monthly</u>
(A) Channel Termination			
- Per point of termination			
- TV-1 or 2	TMEV1	ICB	ICB
- 4TV-5	TMEV4	ICB	ICB
- 6TV-5	TMEV6	ICB	ICB
- TV-15	TMEV5	ICB	ICB

(B) Channel Mileage

	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
<u>Mileage Bands</u>			
0	1L5XX	None	None
Over 0 to 4	1L5XX	ICB	ICB
Over 4 to 8	1L5XX	ICB	ICB
Over 8 to 25	1L5XX	ICB	ICB
Over 25 to 50	1L5XX	ICB	ICB
Over 50	1L5XX	ICB	ICB

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.6 Wideband Analog Service

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(A) Channel Termination - Per point of termination			
- 60 kHz - 108 kHz (AH-B) TWT++		ICB	ICB
- 312 kHz - 552 kHz (AH-C) TWT++		ICB	ICB
- 564 kHz - 3084 kHz (AH-D) TWT++		ICB	ICB
- 300 Hz - 18 kHz (WD-1) TWT++		ICB	ICB
- 28 kHz - 44 kHz (WD 2&3)TWT++		ICB	ICB

(B) Channel Mileage

(1) 60 kHz - 108 kHz

Mileage Bands

	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB

(2) 312 kHz - 552 kHz

Mileage Bands

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
		<u>Fixed</u>	<u>Per Mile</u>
0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.6 Wideband Analog Service (Cont'd)

	USOC	Monthly Rates	
		Fixed	Per Mile

(B) Channel Mileage (Cont'd)

(3) 564 kHz - 3084 kHz

Mileage Bands

0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB

(4) 300 Hz - 18 kHz

Mileage Bands

0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB

(5) 29 kHz - 44 kHz

Mileage Bands

0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.6 Wideband Analog Service (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C) Optional Features and Functions			
(1) Multiplexing			
(a) Mastergroup to Supergroup - Per arrangement	MQ9++	ICB	ICB
(b) Supergroup to Group - Per arrangement	MQS++	ICB	ICB
(c) Group to Voice - Per arrangement	MQV++	ICB	ICB
(d) Group to DS1* - Per arrangement	MQG++	ICB	ICB

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.7 Wideband Data Service

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(A) Channel Termination			
- Per point of termination			
- 19.2 or 18.75 kbps	TWT++	ICB	ICB
- 50.0 or 40.8 kbps	TWT++	ICB	ICB
- 230.4 kbps	TWT++	ICB	ICB

	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>

(B) Channel Mileage

(1) 19.2 or 18.75 kbps

Mileage Bands

0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB

(2) 50.0 or 40.8 kbps

Mileage Bands

0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB

* Requires two 60-108 kHz Channel Terminations and Channel Mileage, one 1.544 Mbps Channel Mileage and either a 1.544 Mbps Channel Termination or a DS1 to Voice multiplexing optional feature, depending on whether the service terminates at a customer's premises or was purchased as a facility to a Telephone Company Hub for multiplexing to Voice Grade.

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7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.7 Wideband Data Service (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
(B) Channel Mileage (Cont'd)			
(3) 230.4 kbps			
<u>Mileage Bands</u>			
0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB
(C) Optional Features and Functions	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(1) Key Activated Transfer Arrangement - Per four port arrangement including control channel termination*	UTK++	ICB	ICB

* The key activated control channel is rated as a Metallic Channel Termination (use USOC T6EME in lieu of T6ECS) and Channel Mileage, if applicable (use USOC 1L5MX in lieu of 1L5XX)

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7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.7 Wideband Data Service (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(D) 303 Data Station			
- Per point of termination where provided	TDQ++	ICB	ICB

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.8 Digital Data Service

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(A) Channel Termination			
- Per point of termination			
- 2.4 kbps	T6ECS	ICB	ICB
- 4.8 kbps	T6ECS	ICB	ICB
- 9.6 kbps	T6ECS	ICB	ICB
- 56.0 kbps	T6ECS	ICB	ICB
(B) Channel Mileage			
	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
(1) 2.4 kbps			
<u>Mileage Bands</u>			
0	1L5XX	None	None
Over 0 to 4	1L5XX	ICB	ICB
Over 4 to 8	1L5XX	ICB	ICB
Over 8 to 25	1L5XX	ICB	ICB
Over 25 to 50	1L5XX	ICB	ICB
Over 50	1L5XX	ICB	ICB
(2) 4.8 kbps			
<u>Mileage Bands</u>			
0	1L5XX	None	None
Over 0 to 4	1L5XX	ICB	ICB
Over 4 to 8	1L5XX	ICB	ICB
Over 8 to 25	1L5XX	ICB	ICB
Over 25 to 50	1L5XX	ICB	ICB
Over 50	1L5XX	ICB	ICB
(3) 9.6 kbps			
<u>Mileage Bands</u>			
0	1L5XX	None	None
Over 0 to 4	1L5XX	ICB	ICB
Over 4 to 8	1L5XX	ICB	ICB
Over 8 to 25	1L5XX	ICB	ICB
Over 25 to 50	1L5XX	ICB	ICB
Over 50	1L5XX	ICB	ICB

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.8 Digital Data Service (Cont'd)

(B) Channel Mileage (Cont'd)	USOC	Monthly Rates	
		Fixed	Per Mile
(4) 56 kbps			
<u>Mileage Bands</u>			
0	1L5XX	None	None
Over 0 to 4	1L5XX	ICB	ICB
Over 4 to 8	1L5XX	ICB	ICB
Over 8 to 25	1L5XX	ICB	ICB
Over 25 to 50	1L5XX	ICB	ICB
Over 50	1L5XX	ICB	ICB
(C) Optional Features and Functions	USOC	Monthly Rates	Nonrecurring Charges
(1) Bridging - Per port	BCNDA	ICB	ICB
(2) Loop Transfer Arrangement (Key activated* or Dial-up**) - Per four port arrangement***	XTD	ICB	ICB
(D) Channel Service Unit**** - Per point of termination where provided			
- 2.4 kbps	TSH24	ICB	None
- 4.8 kbps	TSH48	ICB	None
- 9.6 kbps	TSH96	ICB	None
- 56.0 kbps	TSH56	ICB	None

* The key activated control channel is rated as a Metallic Channel Termination (use USOC T6EME in lieu of T6ECS) and Channel Mileage, if applicable (use USOC 1L5MX in lieu of 1L5XX).

** The Dial-up option requires the customer to purchase the Controller Arrangement (USOC XTDDU) from 13.3.8 following.

*** An additional channel termination charge will apply whenever a spare channel is configured as a leg to the customer premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.

**** Channel Service Units will only be provided under tariff if they existed in the Telephone Company's inventory as of November 18, 1983.

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.9 High Capacity Service

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(A) Channel Termination			
- Per point of termination			
- 1.544 Mbps	TMECS	ICB	ICB
- 3.152 Mbps	TWT++	ICB	ICB
- 6.312 Mbps	TWT++	ICB	ICB
- 44.736 Mbps	TWT++	ICB	ICB
- 274.176 Mbps	TWT++	ICB	ICB

	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>

(B) Channel Mileage

(1) 64 kbps

Mileage Bands

0*	1L5TC	ICB	None
Over 0 to 4	1L5XX	ICB	ICB
Over 4 to 8	1L5XX	ICB	ICB
Over 8 to 25	1L5XX	ICB	ICB
Over 25 to 50	1L5XX	ICB	ICB
Over 50	1L5XX	ICB	ICB

(2) 1.544 Mbps

Mileage Bands

0	1L5XX	None	None
Over 0 to 4	1L5XX	ICB	ICB
Over 4 to 8	1L5XX	ICB	ICB
Over 8 to 25	1L5XX	ICB	ICB
Over 25 to 50	1L5XX	ICB	ICB
Over 50	1L5XX	ICB	ICB

*Applies to through connections of 2.4, 4.8, 9.6, 56.0 and 64 Kbps.

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.9 High Capacity Service (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
(B) Channel Mileage (Cont'd)			
(3) 3.152 Mbps			
<u>Mileage Bands</u>			
0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB
(4) 6.312 Mbps			
<u>Mileage Bands</u>			
0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB
(5) 44.736 Mbps			
<u>Mileage Bands</u>			
0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(B) Channel Mileage (Cont'd)	USOC	Monthly Rates	
		Fixed	Per Mile
(6) 274.176 Mbps			
<u>Mileage Bands</u>			
0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25 to 50	1L0++	ICB	ICB
Over 50	1L0++	ICB	ICB
	USOC	Monthly Rates	Nonrecurring Charges

(C) Optional Features and Functions

(1) Multiplexing

DS4 to DS1 - Per arrangement	MXA++	ICB	ICB
DS3 to DS1 - Per arrangement	MXB++	ICB	ICB
DS2 to DS1 - Per arrangement	MXD++	ICB	ICB
DS1C to DS1 - Per arrangement	MXH++	ICB	ICB
DS1 to Voice * - Per arrangement	MQ1	ICB	ICB
DS1 to DS0 - Per arrangement	QMU	ICB	ICB

* A channel of this DS1 to the Hub can be used for a Digital Data service.

7. Special Access Service (Cont'd)

7.5 Rates and Charges for the State of North Dakota (Cont'd)

7.5.9 High Capacity Service (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C) Optional Features and Functions (Cont'd)			
(1) Multiplexing (Cont'd)			
- Up to 20 2.4 kbps services	QSU24	ICB	ICB
- Up to 10 4.8 kbps services	QSU48	ICB	ICB
- Up to 5 9.6 kbps services	QSU96	ICB	ICB
(2) Automatic Loop Transfer			
- Per arrangement*	T59	ICB	ICB
(3) Transfer Arrangement (key activated** or dial-up***)			
- Per four port arrangement including control channel termination****USV		ICB	ICB

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

** The key activated control channel is rated as a Metallic Channel Termination (use USOC T6EME in lieu of T6ECS) and Channel Mileage, if applicable (use USOC 1L5MX in lieu of 1L5XX).

*** The Dial-up option requires the customer to purchase the Controller Arrangement (USOC XTDDU) from 13.3.8 following.

**** An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.

8. Billing and Collection Services

The Telephone Company will, at the option of a customer, provide the following services:

- (A) Recording Service,
- (B) Billing Service,
- (C) Billing Analysis Service, and
- (D) Billing Information Service

8.1 Recording Service

The Telephone Company will provide Recording Service in association with the offering of Feature Groups C and D Switched Access Service for messages that can be recorded by Telephone Company provided automatic message accounting equipment. In addition, where the Telephone Company records the messages on manual tickets, the Telephone Company will provide Recording Service for the manual tickets and at offices where the Telephone Company provides Feature Group A Switched Access Service and has the ability to record the Feature Group A call detail with automatic message accounting equipment and mark the recorded call detail as Feature Group A call detail for a specific customer, the Telephone Company will provide Recording Service for Feature Group A Switched Access Service.

The Telephone Company will provide Recording Service in its operating territory. The minimum territory for which the Telephone Company will provide Recording Service is all the appropriately equipped offices in a state operating territory for which the customer has ordered Feature Group A, C or D Switched Access Service. A state operating territory includes all its LATAs or market areas which are located in the same state including the areas in contiguous states which are assigned to such LATAs or market areas and served by the same Telephone Company.

For Feature Group C and D Switched Access Service when answer supervision is provided by the customer premises, the term "message" used herein denotes a completed intrastate call originated by an end user. A message begins when answer supervision from the premise of the ordering customer is received by Telephone Company recording equipment indicating that the called party has answered. A message ends when disconnect supervision is received by Telephone Company recording equipment from either the premise of the ordering customer or the end user premises from which the call originated.

For Feature Group D Switched Access Service when answer supervision is not provided by the customer premises, the term "message" used herein denotes an intrastate call originated by an end user where a start time (the recorded time at which the Feature Group D entry switch receives the first wink supervisory signal forwarded from the customer's point of termination) and a disconnect time are received by Telephone Company

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

recording equipment. For purposes of measurement, the message begins when the wink supervisory signal is received and ends when disconnect supervision is received by Telephone Company recording equipment from either the premises of the ordering customer or the end user premises from which the call originated.

Feature Group C Switched Access Service calls where the customer premises does not provide answer supervision are not permitted.

For Feature Group A Switched Access Service, the term "message" used herein denotes a completed call over an intrastate Feature Group A Switched Access Service. A completed call includes both completed calls originated to and terminated from a Feature Group A Switched Access Service. A message begins in the originating direction when the off-hook supervision provided by the premises of the customer is received by Telephone Company recording equipment. A message begins in the terminating direction when answer supervision is received by Telephone Company recording equipment indicating the called party has answered. A message ends in the originating direction when disconnect supervision is received by Telephone Company recording equipment from the premises of the customer. A message ends in the terminating direction when disconnect supervision is received by Telephone Company recording equipment from either the premises of the customer or the called party.

8.1.1 General Description

Recording Service is the recording of the details of a message and, when requested by the customer, the provision of those details to the customer. Recording Service includes recording, assembly and editing, and provision of recorded message detail.

Recording is the entering on magnetic tape or other acceptable media the details of messages originated through Switched Access Service for which answer and disconnect supervision has been received. Recording is provided 24 hours a day, 7 days a week.

Assembly and editing is the aggregation of the recorded message details to create individual messages and the verification that the data required for rating, in accordance with the standard format established by the Telephone Company, is present. Assembly and editing is performed at least once a week.

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.1 General Description (Cont'd)

Provision of message detail is the provision of magnetic tapes containing the assembled and edited message detail and when requested by the customer, data-transmitting the assembled and edited message detail to the customer, sorting the message detail, and providing name and address information for the message detail. Except for lost or damaged records, the recorded detail will be available to the customer not more than five business days after the date all the detail requested by the customer was processed by the Telephone Company.

8.1.2 Undertaking of the Telephone Company

(A) When answer supervision is provided by the customer premises, the Telephone Company will record all messages carried over Feature Groups C and D Switched Access Service that are available to Telephone Company provided recording equipment or operators.

When answer supervision is not provided by the customer premises, the Telephone Company will record Feature Group D Switched Access Service messages that are available to Telephone Company provided recording equipment or operators. Special arrangements must be made to provide these recordings, therefore the time necessary to implement the service and the charges to provide these recordings will be determined on an individual case basis.

The Telephone Company will record all messages, including interLATA intrastate messages and interLATA interstate messages, carried over a Feature Group A Switched Access Service.

Unavailable messages (i.e., certain Feature Group C operator and TSPS messages which are not accessible by Telephone Company provided recording equipment or operators) will not be recorded.

The recording equipment will be provided at locations selected by the Telephone Company. Assembly and editing will be performed on all messages recorded during the billing period established by the Telephone Company. Except as set forth in 8.1.2(F) and 8.1.3 following, recorded message detail from previous billing periods will not be recovered and made available to the customer.

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.2 Undertaking of the Telephone Company (Cont'd)

- (B) Standard formats for the provision of the recorded message detail will be established by the Telephone Company and provided to the customer. Three formats are presently available. The first format will be used when message type calls are recorded (i.e., calls where the end user dials the calls and no operator, third number, credit card number Outward WATS or 800 service terminating measurement is involved.) The second format will be used when an operator, TSPS, third number or credit card is involved. The third format will be used when Outward WATS or 800 service terminating measurement is involved. Any other format that a customer may request when ordering provision of customer message detail will be provided on an individual case basis. If the customer is provided a special format and the customer requests the message detail be used to provide Message Processing and/or Message Bill Processing Service, additional charges as set forth in 8.2 following will apply. If, in the course of Telephone Company business, it is necessary to change the format, the Telephone Company will notify the involved customers six months prior to the change.
- (C) The recorded message detail provided to the customer will, when requested by the customer, be sorted to furnish detail to meet the customer's need.

Also name and address information will, when requested by the customer and to the extent the required names and addresses are available in the Telephone Company customer information data bases, be provided for the recorded message detail.

The sorting will be provided in accordance with the specifications the customer provides when it orders recorded message detail with sorting. If the information necessary to sort the message detail as requested by the customer is not available in the message detail (i.e., a sort based on any information other than calling number or called number), the Telephone Company will provide the sorting if (1) the information necessary to perform the sort is contained in its customer information data bases, or the Wire Center Information as set forth in Exchange Carrier Association Tariff F.C.C. No. 2, or (2) the customer provides the necessary information. If the sorting is to be performed using information which is confidential due to legal, national security, End User or regulatory imposed requirements, the information will not be used unless the customer secures written permission from the end user for the Telephone Company to use such information as requested by the customer.

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.2 Undertaking of the Telephone Company (Cont'd)

(C) (Cont'd)

The name and address information will be provided with the recorded message detail and included on the magnetic tapes containing the recorded message detail. The name and address information will be provided in a format in accordance with the specifications the customer provides when it orders recorded message detail. The address information will be obtained by the Telephone Company from its customer information data bases. The address information will be provided for the calling number shown in the recorded message detail to the extent a name and address exists in the Telephone Company customer information data bases (e.g., some calling number names and addresses may be confidential). If the name and address information for a specific calling number is confidential due to legal, national security, End User or regulatory imposed requirements, the name and address information will not be used unless the customer secures written permission from the end user for the Telephone Company to use the information as requested by the customer.

When sorting of recorded message detail and/or name and address information is provided to the customer, the interval, minimum period and charges to provide the sorting and/or name and address information will be determined on an individual case basis.

(D) Recorded message detail with or without sorting and names and addresses will be provided to a customer as set forth in (E) following. The Telephone Company will determine the number of magnetic tapes or data files required to provide the recorded message detail to the customer.

(E) At the request of a customer, magnetic tapes containing the recorded message details with or without sorting and names and addresses will be provided to the customer as part of Recording Service. The magnetic tapes will be provided without the return of previously supplied tapes. The Telephone Company will supply the magnetic tapes. Unless specified otherwise by the customer, the magnetic tapes will be sent to the customer via first class U.S. Mail service. However, the customer may pick up the magnetic tapes at a location designated by the Telephone Company or request that the detail on the magnetic tapes or in a data file be

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.2 Undertaking of the Telephone Company (Cont'd)

(E) (Cont'd)

data-transmitted to the customer. When the message details are data-transmitted to a customer location, the data transmission charges will be determined on an individual case basis. When the customer does not wish to receive the recorded message details, except when sorting and name and address information is provided, and the Telephone Company receives notice from the customer at least two weeks prior to the date the details would be sent to the customer, the charge as set forth in 8.1.7(C) following does not apply. When sorting and name and address information is provided and the customer does not wish to receive the recorded message detail, the terms and conditions will be as set forth in the individual case basis agreement.

(F) Recorded message detail which is used at the request of the customer to provide Message Processing and Message Bill Processing Service is not retained by the Telephone Company for longer than 45 days. The rated but unbilled message detail and the billed message detail is retained for reference (i.e., on paper or microfiche) in place of the recorded message detail. For recorded message detail not used by Message Processing Service at the customer's request, the Telephone Company will make every reasonable effort to recover the recorded message detail previously made available to the customer and make it available again for the customer. The charges as set forth in 8.1.7(C) following will apply for all such detail provided. When the recorded message details are data-transmitted to a customer premise, the data transmission charges will be determined on an individual case basis. Such a request must be made within 30 days from the date the details were initially made available to the customer.

8.1.3 Liability of the Telephone Company

Notwithstanding 2.1.3 preceding, the Telephone Company liability for Recording Service is as follows:

(A) If message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost messages and associated revenue based on previously known values. This estimated message volume will be included

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.3 Liability of the Telephone Company (Cont'd)

(A) (Cont'd)

along with the message detail provided to the customer and/or provided for Message Processing Service. In such events the extent of the Telephone Company's liability for damages shall be limited to the granting of a corresponding credit adjustment to the customer amounts due to account for the unbillable revenue.

(B) When the Telephone Company is notified that, due to error or omission, incomplete data has been provided to a customer, the Telephone Company will make every reasonable effort to locate and/or recover the data and provide new magnetic tapes to the customer at no additional charge. Such request to recover the data must be made within 30 days from the date the details were initially made available to the customer. If the data can not be recovered, the extent of the Telephone Company's liability for damages shall be limited as set forth in (A) preceding.

(C) In the absence of willful misconduct, no liability for damages to the customer or other person or entity other than as set forth in (A) and (B) preceding shall attach to the Telephone Company for its actions or the conduct of its employees.

8.1.4 Obligations of the Customer

(A) The customer shall order Recording Service under a Special Order for each state where the service is desired.

The customer shall order Recording Service at least one month prior to the date when the message detail is to be recorded.

(B) The customer shall order provision of recorded message detail without sorting or name and address information at least one month prior to the date when it wishes to receive the recorded message detail. However, the customer may wish to receive magnetic tapes of the recorded detail without sorting or name and address information or have the recorded detail data transmitted to a customer location at some times and not at others. Therefore, change in the provision of recorded message detail without sorting and name and address information to the customer will be accommodated provided the customer gives two weeks advance written notification to the Telephone Company.

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.4 Obligations of the Customer (Cont'd)

(B) (Cont'd)

For recorded message detail with sorting and/or name and address information, the customer shall order the detail in accordance with the terms and conditions of the individual case basis established and filed in this tariff to cover the provision of recorded message detail with sorting and/or name and address information.

- (C) The customer's premises shall provide such signals as may be required for the proper operation of the Telephone Company's automatic message accounting equipment used to perform the detail recordings.

8.1.5 Payment Arrangements and Audit Provision

(A) Audit Provision

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

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

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.5 Payment Arrangements and Audit Provision (Cont'd)

(B) Minimum Period and Minimum Monthly Charge

The minimum period for which Recording Service without sorting and/or name and address information is provided and for which charges apply is one month for each state in which the service is ordered.

The minimum monthly charges are the charges for messages recorded, messages assembled and edited (except when Message Processing Service is ordered for the same monthly period) and when ordered by the customer, provision of message detail without sorting and/or name and address information on magnetic tapes or data files. If the service is cancelled or discontinued prior to entering the message detail on magnetic tapes or data files, the minimum monthly charge will be the charge for all messages recorded, assembled and edited for a 30 day period. The Telephone Company will use the most recent 30 day period for which data is available to determine the minimum charge.

(C) Cancellation of a Special Order

A customer may cancel a Special Order for Recording Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the Special Order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. The service date for Recording Service is the date the customer requests the recordings to start.

When a customer cancels a Special Order for Recording Service after the order date but prior to the start of service, the minimum monthly charges will apply.

(D) Changes To Special Orders

When a customer requests material changes to a pending Special Order for Recording Service, the pending Special Order will be cancelled and the requested changes will be undertaken if they can be accommodated by the Telephone Company under a new Special Order. Material changes to a pending Special Order for Recording Service include changes in the location and/or number of Telephone Company recording

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.5 Payment Arrangements and Audit Provision (Cont'd)

(D) Changes To Special Orders (Cont'd)

locations, changes in sorting parameters, provision of End User phone number and address, provision of data transmission to a customer location of recorded message detail, and changes in schedules, dates or intervals for receipt of recorded message detail. Non-material changes to a pending Special Order include changes in customer name, customer address and customer requests to receive Recording Service output at the Telephone Company location instead of through U.S. Mail. All cancellation charges as set forth in (C) preceding will apply for the cancelled Special Order.

(E) Payments

Payments for Recording Service when Message Billing Service Bill Processing Service and/or Private Line Billing Service is provided by the Telephone Company to the customer, will be included in the netting of accounts receivable as set forth in 8.2.3 following.

Under no condition does payment of any charges under this tariff provide a customer with any interest in or ownership of the recording, processing, or billing data processing program or systems established by the Telephone Company to provide Recording Service. Such programs and systems are proprietary to the Telephone Company.

All other payment regulations as set forth in 2.4 preceding apply.

8.1.6 Rate Regulations

- (A) For each message recorded, the recording and the assembling and editing charges apply except when the customer orders Message Processing Service. When Message Processing Service as set forth in 8.2.1 following is ordered for the same state and month that Recording Service is ordered, the assembling and editing charge does not apply per message.

The charges for recording and for assembly and editing apply per message recorded and per message assembled and edited whether or not the customer's schedule of rates specifies billing on a per message basis or any other basis.

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.6 Rate Regulations (Cont'd)

(B) When message detail with or without sorting and/or name and address information is entered on a data file or magnetic tape for provision of message detail to a customer, the per tape charge applies for each data file or magnetic tape prepared, and the per record charge applies for each record processed. A record is a logical grouping of information as described in the programs that process the information and load the magnetic tapes or data file. The Telephone Company will determine the charges based on the number of data files or magnetic tapes prepared and on its count of the records processed. The number of records processed will be determined using the number of records input to or the number of records output from the programs that process the information and load the magnetic tapes or data file, whichever number of records is higher.

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.7 Rates and Charges

The rates and charges are:

	<u>FID</u>	<u>USOC</u>	<u>Rates</u>
(A) Recording, - per customer message		BARR+	\$.0110
(B) Assembling and Editing, - per customer message*		BARA+	\$.0053
(C) Provision of Message Detail, - without sorting and/or name and address information per record processed	PRMD		\$.0048
- sorted output without name and address information per record processed			ICB rates and charges apply
- unsorted output with name and address information per record processed			\$.0150
- sorted output with name and address information per record processed			ICB rates and charges apply
- per tape or data file			\$50.00
(D) Data Transmission to a customer location, - per record transmitted	BOD DT		ICB rates and charges apply

* Not applicable when Message Processing Service, as set forth in 8.2.1 following, is provided to the customer except as set forth in 8.2.1(B)(1)(c) and 8.2.1(B)(2)(d) following.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service

At the request of a customer, the Telephone Company with reasonable notice and reasonable effort will provide Billing Service.

The Telephone Company will provide Billing Service in its operating territory. The minimum territory for which the Telephone Company will provide Billing Service is a state operating territory when the Telephone Company supplies the input records at the customer's request. When the customer supplies the input records, the Telephone Company will process the input records supplied by the customer as set forth in 8.2.1 and 8.2.2 following.

The Telephone Company will provide two types of Billing Service:
1) Message Billing Service consisting of Message Processing Service and Bill Processing Service as set forth in 8.2.1, and 2) Private Line Billing Service as set forth in 8.2.2 following.

The Telephone Company will provide Bill Processing Service only on the condition that (1) it purchase the accounts receivable, if any, from the customer as set forth in 8.2.3 following or (2) the Telephone Company agrees to act as a billing agency for the customer.

At the request of a customer, the Telephone Company will make reasonable efforts to develop customized billing (carrier specific) procedures to provide specialized services required by the customer and not otherwise specified in this tariff.

Customized Billing charges shall apply whenever a customer requests billing services not otherwise specified in this tariff. Customized billing charges may contain recurring as well as non-recurring charges. Customized billing charges will be determined on an individual case basis to recover costs plus a contribution and will be set forth in a contract between the Telephone Company and the customer.

The Telephone Company will not render bills under this tariff for the provision and/or delivery of telegrams, flowers, gifts, wine or other like services that a customer offers.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service

Message Billing Service consists of Message Processing Service and Bill Processing Service. A customer may order Message Processing Service or Bill Processing Service or both services.

(A) General Description

(1) Message Processing Service

Message Processing Service is the transforming of the recorded customer call details into rated messages in preparation for billing. Message Processing Service includes initial data entry and rating of messages.

Initial Data Entry is the assembly of recorded customer call details into messages. This function includes editing and verification of recorded details to assure that the data required for rating are present.

Rating of messages is the computing of applicable charges for each message based on the customer provided schedule of rates. Rating also includes the preparation of message detail for input to Bill Processing Service, the customer, or other entities.

Further, rating is always performed and editing may be performed coincident with the implementation of a change in the customer's schedule of rates.

(2) Bill Processing Service

Bill Processing Service is the preparation of bills for message-billed service and bulk-billed service, mailing of statements of the amounts due for service received from the customer and the collection of monies due from the End Users. Bill Processing Service may include message-billed (when necessary) and bulk-billed account establishment, posting of rated messages and rate elements, rendering of bills, receiving payments, maintenance of accounts, treatment of accounts, message investigation and inquiry (when ordered by the customer).

Bulk-billed service is a billing service for an End User account having a WATS access line or WATS-type service access line where individual messages are not posted to the account and are not listed on the bill rendered to the end user.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(A) General Description (Cont'd)

(2) Bill Processing Service (Cont'd)

Message-billed service is a billing service for an end user account with an end user common line where individual messages or groups of messages (i.e. Optional Calling Plan) are posted to the account and listed on the bill rendered to the end user. Message-billed service is also a billing service for a customer credit card end user account without an end user Common Line or WATS access line or WATS-type service access line where individual messages or groups of messages are posted to the account and listed on the bill rendered to the end user.

Account Establishment is the preparation of an end user record so that a bill can be sent to that end user.

Posting of Rated Messages is the processing for billing of rated messages. Posting also is the examination and identification of all the rateable elements specified by the customer to be billed to an end user. Application of appropriate customer rates and charges to all such rate elements is also included when requested by the customer. The rating may be performed by the Telephone Company, another entity or the customer. Editing and rating of rate elements is performed when customer services are established or changed. Rating is always performed and editing may be performed coincident with the implementation of a change in the customer's schedule of rates.

Rendering of Bills is the preparation and mailing of statements of amounts due from the end user for customer message-billed and bulk-billed services. These statements may, at Telephone Company choice, be included as part of the regular monthly bill for local Telephone Exchange Service mailed to the end user.

Receiving Payment and Maintenance of Accounts is the collecting of monies from end users for services furnished by the customer and maintenance of records of all transactions.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(A) General Description (Cont'd)

(2) Bill Processing Service (Cont'd)

Treatment of Accounts is the forwarding of notices by mail or telephone calls of delinquent or unpaid end user accounts and posting of credits and adjustments and when necessary as determined by the Telephone Company, denial of the customer's services and/or local exchange service to an end user.

The Telephone Company will follow the same rules and regulations that are applicable for the billing, collection and denial of service of its local exchange customers.

Message Investigation is that activity undertaken by the Telephone Company to secure, or attempt to secure, proper billing information for customer messages.

Inquiry is the answering of end user questions about charges billed for customer services as prescribed by the customer reference and application of credits and adjustments to end user accounts. The Telephone Company will provide Inquiry only on the condition that it purchase the customer's accounts receivable.

(B) Undertaking of the Telephone Company

(1) Message Processing Service

- (a) When Message Processing is ordered by a customer, the Telephone Company will process all of the messages it possesses in a state as set forth in (b) through (l) following at rates and charges set forth in (G) following.
- (b) The Telephone Company will provide Message Processing Service only for messages originating or recorded within the operating territory of the Telephone Company. The messages which the Telephone Company will process may be messages from Recording Service as set forth in 8.1 preceding or, at the direction of the customer, other messages which are chargeable in accordance with the rate schedule furnished by the customer.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(1) Message Processing Service (Cont'd)

(b) The Telephone Company will provide Message Processing Service only for messages originating or recorded within the operating territory of the Telephone Company. The messages which the Telephone Company will process may be messages from Recording Service as set forth in 8.1 preceding or, at the direction of the customer, other messages which are chargeable in accordance with the rate schedule furnished by the customer.

Any sent-paid coin messages provided as input by the customer will be processed unless the customer specifies in writing that such messages are not to be processed. When such messages are processed message processing charges will apply. When such messages are not processed they may not be included in any message detail provided to the customer.

(c) A record of customer call details is required to provide Message Processing Service. Where a customer subscribes to Recording Service as set forth in 8.1 preceding, those recorded details may be used as the input. Where the customer provides the call details, the records must be in the standard format established by the Telephone Company and delivered to the location specified by the Telephone Company. The charges as set forth in (G)(10) following will apply if the customer data-transmits its call details to the Telephone Company. If the customer provided records must be converted by the Telephone Company to the standard format, and the Telephone Company agrees to make the conversion, the program development charges as set forth in (G)(2) following apply for the hours required to design, develop, test and maintain the necessary programs. The assembling and editing charge, as set forth in 8.1.7(B) preceding, applies in addition to all other charges for all such details converted by the Telephone Company. The Telephone Company will provide to the customer the precise details of the required standard format. If,

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(1) Message Processing Service (Cont'd)

(c) (Cont'd)

in the course of Telephone Company business, it is necessary to change the standard format, the Telephone Company will provide notification to the involved customers six months prior to the change. If the customer requests the customer provided call details be reprocessed by the Telephone Company because of a customer error, the Telephone Company will reprocess the customer provided call details and the appropriate charges as set forth in (G) following will apply.

- (d) The Telephone Company will develop the customer's schedule of rates into a rating program. Program development charges, as set forth in (G)(2) following, apply for the hours required to design, develop, test and maintain the necessary programs.
- (e) Upon acceptance by the Telephone Company of a Special Order for Message Processing Service from a customer, the Telephone Company will determine the period of time to implement such service on an individual order basis.
- (f) Changes in the rate levels of customer charges to be billed will normally be implemented within 30 days after receipt of a Special Order from the customer requesting such changes. Such changes will require modifications of the rating program. Program development charges, as set forth in (G)(2) following, apply for the hours required to design, develop, test and maintain the necessary program changes. If any message detail must be reprocessed in order to apply the rate changes, the appropriate message processing charges as set forth in (G)(1) following apply for all messages reprocessed.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(1) Message Processing Service (Cont'd)

(g) Changes in the rate structure for customer services to be billed also require a change in the rating program. When the Telephone Company determines that it can accommodate the changes, the conditions and the period of time required to make such changes will be determined on an individual order basis. Program development charges, as set forth in (G)(2) following, apply for the hours required to design, develop, test and maintain the necessary program changes. If any message detail must be reprocessed in order to apply the rate structure changes, the appropriate message processing charges as set forth in (G)(1) following apply for all messages reprocessed.

(h) Where the Telephone Company has rated messages which are to be billed to an end user by another Exchange Telephone Company, the Telephone Company will enter the messages on a magnetic tape or data file which can be used for data transmission of the details. When the customer has so arranged with an involved Exchange Telephone Company, the Telephone Company will transmit the rated message details to such other Exchange Telephone Company for billing to end users in its operating territories. When the customer does not have billing arrangements with an Exchange Telephone Company, rated messages for such an Exchange Telephone Company will be sent to the customer. The charges as set forth in G(3) following apply to rated messages that are data-transmitted to the other Exchange Telephone Companies. The charges as set forth in (G)(4) following apply to rated messages that are sent to the customer. When the message details are data-transmitted to the location designated by the customer, the data transmission charges will be determined on an individual case basis. Program development charges as set forth in (G)(2) following apply for the hours required to design, develop, test and maintain the necessary programs.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(1) Message Processing Service (Cont'd)

- (i) Where the rates for customer services have been implemented under an accounting order pending final approval from a regulatory agency, the Telephone Company will, upon written request from the customer, keep such records as may be required to make any adjustments to the end users as may be ordered by the regulatory agency. The charges for such a service will be determined on an individual case basis.
- (j) The Telephone Company will, upon request, provide the customer the rated message detail.

The rated message detail will be provided on a request by request basis in a format similar to that used by the Telephone Company as input to Bill Processing Service. All rated message detail available to the Telephone Company will be provided to the customer.

The rated message detail may be sorted in the same manner as set forth in 8.1.2.(c) preceding.

The Telephone Company will provide the message detail on a magnetic tape. The magnetic tapes will be provided without the return of previously supplied tapes. The Telephone Company will supply the magnetic tapes. Program development charges, as set forth in (G)(2) following, apply for the hours required to design, develop, test and maintain the necessary programs. When a magnetic tape is provided, the charges as set forth in (G)(4) following also apply.

Unless specified otherwise by the customer, the magnetic tapes will be sent to the customer using first class U.S. Mail service. However, the customer may pick up the magnetic tapes at a location designated by the Telephone Company or request the information on the magnetic tapes be data-transmitted to the customer. When the information is data-transmitted to a location designated by the customer, the data transmission charges will be determined on an individual case basis.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(1) Message Processing Service (Cont'd)

- (k) If the customer makes a request within 30 days of the date the customer details were initially made available to the customer, the Telephone Company will make a reasonable effort to recover the customer detail and make it available again to the customer.

The charges as set forth in (G)(4) will apply for all such customer detail provided. When the customer details are data-transmitted to a location designated by the customer, the data transmission charges will be determined on an individual case basis.

- (1) Customer messages which the Telephone Company processes that cannot be rated in accordance with the customer rate schedule will be reviewed by Telephone Company message investigation groups. Upon completion of the review, rated messages will be delivered to the customer when the customer orders such service or to Bill Processing Service when the customer orders such service. Unrated messages will be handled in accordance with instructions that have been mutually determined by the Telephone Company and the customer. At the request of the customer, the unrated messages will be reviewed for unauthorized use of the customer service by Telephone Company message investigation groups for a period of up to 90 days after the message was processed. The appropriate charges, as set forth in (G)(4) following or (G)(6) following, will apply.

(2) Bill Processing Service

- (a) When Bill Processing Service is ordered by a customer, the Telephone Company will establish and maintain end user accounts and prepare and render bills for rated messages, bulk-billed messages and related rate elements it possesses for a state as set forth in (b) through (n) following at rates and charges as set forth in (G) following. The Telephone Company will not establish an end user account with any customer balance due.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(2) Bill Processing Service (Cont'd)

- (b) The Telephone Company will provide Bill Processing Service for message-billed service, bulk-billed service and related rate elements which are posted to end user accounts located within the operating territory of the Telephone Company only. The Telephone Company will separate the rated messages into a message-billed group and a bulk-billed group for application of rates as set forth in (G) following.
- (c) At the request of the customer, the Telephone Company will mark its records and files to show that an end user has been issued a customer credit card. The Telephone Company will specify the information it requires and the format to be used by the customer in furnishing such information. The charges as set forth in (G)(9) following apply. When it becomes necessary as determined by the Telephone Company, to change the credit card number or discontinue the billing of credit card calls to an end user account because of nonpayment of charges or unauthorized use of Telephone Company and customer service offerings, the Telephone Company will notify the customer. All charges for calls associated with such a discontinued credit card after the customer has been notified will become the responsibility of the customer. End user questions concerning the issuing of customer credit cards will be handled by the customer.
- (d) Rated messages are required to provide Bill Processing Service. If the customer subscribes to Message Processing Service as set forth in (1) preceding, the rated messages may be used as the input. If the customer provides the rated messages, those messages must be in the standard format established by the Telephone Company and delivered to the location specified by the Telephone Company. The charges as set forth in (G)(10) following apply if the customer data-transmits its rated message data to the Telephone Company.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(2) Bill Processing Service (Cont'd)

(d) (Cont'd)

Such customer provided rated message data must identify the end user account to be billed. If the customer provided rated messages must be converted by the Telephone Company to the standard format and the Telephone Company agrees to make the conversion, program development charges as set forth in (G)(2) following apply for the hours required to design, develop, test and maintain the necessary programs.

The assembling and editing charge, as set forth in 8.1.7(B) preceding, applies in addition to all other charges for all such rated messages converted by the Telephone Company. The Telephone Company will provide to the customer the precise details of the required format. If, in the course of Telephone Company business, it is necessary to change the format, the Telephone Company will notify the involved customers six months prior to the change. If the customer requests the customer provided rated messages be reprocessed by the Telephone Company because of a customer error, the Telephone Company will reprocess the customer provided rated messages and the appropriate charges as set forth in (G) following will apply.

(e) For end user accounts in its operating territory where the customer has ordered Bill Processing Service, the Telephone Company will bill all rated messages provided by the customer. The bill format will be determined by the Telephone Company.

(f) Upon acceptance by the Telephone Company of a Special Order for Bill Processing Service from a customer, the Telephone Company will determine the conditions and the period of time to implement such service on an individual order basis. Program development charges, as set forth in (G)(2) following, apply for the hours required to design, develop, test and maintain the necessary programs including any programs to rate, change the rates of or change the rate structure of any rate elements associated with the customer services.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(2) Bill Processing Service (Cont'd)

- (g) When the Telephone Company purchases a customer's accounts receivables, the Telephone Company reserves the right to refuse to purchase any accounts receivable which may arise from bills rendered by the Telephone Company to the customer's end users where those accounts receivable have previously been pledged, assigned or otherwise transferred to another party, and in such instance the Telephone Company will not provide Bill Processing Service with respect to those end users whose accounts were so pledged, assigned or transferred.
- (h) The Telephone Company will not provide any information related to Bill Processing Service accounts under this section of the tariff. Bill Processing Services information may be obtained as set forth in 8.4 following.
- (i) The Telephone Company will, at the option of the customer, provide message-billed Bill Processing Service with or without inquiry and bulk-billed Bill Processing Service with or without inquiry. In addition, the Telephone Company will, at the option of the customer, provide information to the customer about the customer's end user message bill charges and investigate end user message bill charges. Such services will be provided as follows.
- (1) When the Telephone Company provides inquiry, the Telephone Company will be responsible for contacts and arrangements with the end users concerning the billing, collecting, crediting and adjusting of the customer service charges, except prior customer balances due from end users, in accordance with written instructions furnished by the customer. At the request of the customer when the customer has ordered inquiry, the billed messages which are removed from an end user's bill in accordance with customer inquiry instructions will be reviewed for unauthorized

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(2) Bill Processing Service (Cont'd)

(i) (Cont'd)

use of customer service by Telephone Company message investigation groups for a period of up to 90 days after the bill date of the message. For any billed messages removed from an end user's bill in accordance with inquiry instructions, the Telephone Company will make appropriate adjustments to the customer's accounts receivable. Inquiry will only be provided when the customer is provided Bill Processing Service at the same time for the same state operating area.

(2) When the Telephone Company provides Bill Processing Service without inquiry, all contacts from end users concerning the customer billed amounts will be referred to the customer. The Telephone Company will only be responsible for contacts with the end users concerning the collection of customer service deposits and charges, except prior customer balances due from end users. The rate as set forth in (3) following will apply.

(3) Provision of Information about end user message bill charges is a Telephone Company response to a question about customer's end user message bill charges. The response will be provided based on a written order from the customer. The Telephone Company response will include information on the charges and deposits billed for the customer, the name and billing address used, the amount of unpaid charges, adjustments made in the last billing period and charges posted but unbilled (unbilled toll).

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(2) Bill Processing Service (Cont'd)

(i) (Cont'd)

(3) (Cont'd)

Provision of Information includes a check of the Telephone Company service provided to the end user on behalf of the customer and a response to indicate if the Telephone Company followed the customer instructions. Provision of Information also includes providing an additional copy of the most recent Billing Service bill sent to the end user on behalf of the customer.

Provision of Information includes the provision of the name and address of the customer's end user billed by the Telephone Company and does not include the Provision of the name and/or address of any other party. Provision of Information does not include any activities or response to review charges removed from an end user bill at the customer request or to determine the proper billing for charges removed from an end user bill.

The Telephone Company will select the personnel to collect the information and the response will be provided in a mutually agreeable manner to the customer. The rates as set forth in (G)(16) following will apply to each request received from the customer.

- (4) Investigation of end user message bill charges is a Telephone Company review of charges billed to a customer's end user which the customer proposes to remove from the end user bill or has removed from the end user bill. The review will be provided based on a written order from the customer. The review will include an investigation to determine the proper party to be billed for the customer designated messages.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(2) Bill Processing Service (Cont'd)

(i) (Cont'd)

(4) (Cont'd)

Investigation also includes the review of a billed message removed from an end user bill at the customer's request for a period of up to 90 days after the bill date of the message. The review is provided to identify suspected unauthorized use of the customer's service.

Investigation to determine if unauthorized use has occurred is not provided under this section but is provided as set forth in 8.3 following.

The Telephone Company will select the personnel to make the review and the response will be provided in a mutually agreeable format to the customer. The rates as set forth in (G)(14) following will apply to each request received from the customer. If adjustments are to be made to the end user account, they will be made in accordance with the customer's order and the appropriate charges as set forth in (F)(12) following will apply.

- (j) The Telephone Company will accept customer gift certificates for payment from end users if the customer agrees in writing to redeem all such gift certificates. The value of each gift certificate will be applied to the total amount due. The format of the gift certificate must be in bank draft format.
- (k) Rated messages input to Bill Processing Service which the Telephone Company cannot bill for any reason will be reviewed by the Telephone Company's message investigation groups. Upon completion of the review, the billable messages will be posted and the appropriate charges, as set forth in (G)(6)

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(2) Bill Processing Service (Cont'd)

(k) (Cont'd)

following, will apply. Unbillable messages will be handled in accordance with instructions that have been mutually determined by the Telephone Company and the customer. At the request of the customer, the rated messages which cannot be billed to an end user will be reviewed for unauthorized use of customer service by Telephone Company message investigation groups for a period of up to 90 days after the rated message was processed.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(2) Bill Processing Service (Cont'd)

- (1) The Telephone Company will post rated messages to the appropriate end user account when it identifies a message to be billed to an end user and will mark the appropriate end user account when a customer credit card is issued to an end user. The Telephone Company will bill to an end user other message-billed service charges, such as provision of a credit card, issuing of a credit card, blocking of third number billing, time and rate charges, and subscription charges when it receives an order for such services from a customer. Other message-related charges, such as DIAL-IT charges, will be billed to the end user based on message data received from Message Processing Service or from the customer. The Telephone Company will make adjustments to end user balances due to account for application of credits authorized by customer inquiry instructions and customer furnished statements.
- (m) The Telephone Company will establish an end user account for customer bulk-billed service when it receives an order from the customer to perform such activity for a specific end user and will bill customer bulk-billed charges to the end user. The Telephone Company will bill other bulk-billed rate elements, such as provision of a bulk-billed service access line, installation of an access line and provision of an access line extension, when it receives a Special Order for such services from a customer. Other message-related charges for bulk-billed service, such as DIAL-IT charges, will be billed to the end user based on message data received from Message Processing Service or from the customer. The Telephone Company will make adjustments to end user balances due to account for application of credits authorized by customer inquiry instructions and customer furnished statements.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(2) Bill Processing Service (Cont'd)

(n) Where the rates for customer services have been implemented under an accounting order pending final approval from a regulatory agency, the Telephone Company will, upon written request from the customer, keep such records as may be required to make any adjustments to the end users as may be ordered by the regulatory agency. The charges for such a service will be determined on an individual case basis.

(3) Message Billing Service Ordering

- (a) The Telephone Company will provide Message Billing Services under a Special Order. The format of this Special order will be specified by the Telephone Company.
- (b) The Telephone Company will arrange with the customer to accept under a Special Order end user account information to establish and change end user account data (including credit card data), establish and change end user account rate elements and change end user balances due. The methods, procedures and manner in which the end user account data and changes are forwarded to the Telephone Company must be agreeable to the Telephone Company.

(C) Liability of the Telephone Company

Notwithstanding 2.1.3 preceding, the Telephone Company liability for Message Billing Service is as follows:

- (1) If Bill Processing Service detail is not available because the Telephone Company lost or damaged records or incurred processing system outages, the Telephone Company will attempt to recover the lost customer detail. If the lost detail cannot be recovered and the Telephone Company recorded the details, the detail and the extent of the Telephone Company's liability for damages will be as set forth in 8.1.3(A) preceding. If the lost detail cannot be recovered and the customer provided the detail, the

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(C) Liability of the Telephone Company (Cont'd)

(1) (Cont'd)

customer will be requested to resupply the detail. If the customer cannot resupply the detail, the detail and the extent of the Telephone Company's liability for damages will be as set forth in 8.1.3(A) preceding. This recovered detail will be included in message detail provided to the customer when the customer orders such service and any recovered messages will be billed.

(2) When the Telephone Company is notified that, due to its error or omission, incomplete customer detail has been provided, as set forth in 8.2.1(B)(1)(j) preceding and/or 8.4 following, to a customer, the Telephone Company will make every reasonable effort to recover and provide the detail to the customer at no additional charge. Such request to recover the detail must be made within 30 days from the date the detail was initially made available to the customer. If the detail cannot be recovered, the extent of the Telephone Company's liability for damages shall be limited as set forth in 8.1.3(A) preceding.

(3) If the Telephone Company finds, or is notified of, an error in billing to an end user, it will make a reasonable effort to correct the error and bill the appropriate end user within the limits permitted by laws of the state in which it provides the service. If the error is caused by the Telephone Company and the Telephone Company cannot timely bill the proper end user, the extent of the Telephone Company's liability for damages will be the known amount misbilled or when the amount misbilled is unknown, limited as set forth in 8.1.3(A).

(4) In the absence of willful misconduct, no liability for damages to the customer or other person or entity other than as set forth in (1), (2) and (3) preceding shall attach to the Telephone Company for its action or the conduct of its employees.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(D) Obligations of the Customer

- (1) The customer shall order Message Billing Services under a Special Order for each state where service is desired. The customer shall be responsible for all balances due from end users that exist prior to ordering Bill Processing Service.

At the time Message Processing Service and/or Bill Processing Service is initially ordered, the customer shall order the service for 1, 3 or 5 years. Thereafter, upon six months' written notice, additional service may be ordered for 1, 3 or 5 years at the rates and charges as set forth in (G) following. The customer may order inquiry for a service period that is different from that for Bill Processing. However, the customer shall not order inquiry unless it also has ordered Bill Processing Service for the same period and the same state operating area. Not later than six months prior to the end of an order period, the customer shall notify the Telephone Company in writing if any service is to be discontinued at the end of the period. If no notice is received from the customer, the Telephone Company will automatically extend the services for another year. The customer will be notified by the Telephone Company when such an extension is made. All appropriate charges, as set forth in (G) following, for another year will apply.

- (2) When Message Processing Service is ordered, the customer shall furnish the Telephone Company, for each state and for each year in the order, an estimate of the number of messages (message capacity), including those messages which will be bulk billed, to be processed.

In addition, when Bill Processing Service is ordered, the customer shall furnish the Telephone Company, for each state and for each year in the order, an estimate of the number of message-billed and/or bulk-billed messages (bill capacity) for which billing is to be provided. Separate estimates shall be furnished by the customer for message-billed messages and bulk-billed messages. The capacity estimate for inquiry for each state and each year shall be the same as that for message-billed and/or bulk-billed messages.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(D) Obligations of the Customer (Cont'd)

- (3) The customer shall furnish all information necessary for the Telephone Company to provide the Message Billing Service, including any per month service charges applicable to an end user and an affidavit that states whether the customer service is subject to any Federal taxes and/or State and/or Local taxes. When customer messages are to be billed by an entity other than the Telephone Company, the customer shall furnish written instructions as to how the rated messages are to be provided to that other entity. If the customer does not furnish complete instructions, all resulting unbillable messages will be delivered to the customer. The information shall be furnished by the customer one month prior to the time of processing.
- (4) The customer shall furnish to the Telephone Company a written schedule of its rates and charges in sufficient time to allow the Telephone Company to establish a rating program. The customer's rate structure must be consistent with established Telephone Company rating methodologies. The interval required to establish a rating program must be mutually agreeable to the Telephone Company and the customer.
- (5) The customer shall be responsible for all contact and arrangements, including prior customer balances due from end users, with its end users concerning the provision and maintenance of the customer's service.
- (6) When the customer orders message-billed or bulk-billed Bill Processing Service with inquiry, the customer shall furnish to the Telephone Company written instructions, which are agreeable to the Telephone Company, for the handling of end user questions about bills.

When the customer orders message-billed or bulk-billed Bill Processing Service without inquiry, the customer shall furnish the Telephone Company with written instructions as to where inquiries are to be referred.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(D) Obligations of the Customer (Cont'd)

(6) (Cont'd)

When the customer does not order inquiry service and desires credit adjustments be made to the end user balance due, the customer shall furnish a statement for each end user account where the credit is desired. These statements shall show the customer message, the date the message was billed and the amount of the credit. These statements shall be furnished to the Telephone Company under a Special Order as set forth in (B)(3)(b) preceding.

The customer shall notify its end users through its tariff or other appropriate means when the customer handles the bill inquiries. The customer shall furnish the Telephone Company in writing all end user bill adjustment statements.

- (7) The customer will immediately redeem all customer gift certificates the Telephone Company receives in payment for any end user charges. The customer agrees to use a gift certificate in bank draft format.
- (8) The customer agrees to permit the Telephone Company, when necessary in accordance with Telephone Company deposit regulations, to determine and collect service deposits from end users of the services for which the Telephone Company provides billing for the customer. The customer will notify its end users through its tariffs or other means that the Telephone Company will, when necessary in accordance with Telephone Company deposit regulations, determine and collect service deposits.
- (9) When the customer is notified by the Telephone Company that a customer credit card billing is discontinued, the customer shall notify the appropriate end user. The customer also agrees to be responsible for all charges to the discontinued credit card after receipt of notice of discontinuance. In addition, any charges that are not collected which are billed to a customer credit card end user account without Local Exchange Service, will be handled as an adjustment as described in Section 8.2.3(B)(2).

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(D) Obligations of the Customer (Cont'd)

- (10) When the customer furnishes recorded detail for Message Processing Service and/or rated message detail for Bill Processing Service, it shall be responsible to deliver the detail to the location specified by the Telephone Company and it shall retain a copy of the detail furnished for at least 90 days.
- (11) When a rate refund is ordered for the customer, all end user refunds, related interest charges and other amounts incurred must be borne by the customer. An appropriate adjustment to the Total Amount Billed will be made pursuant to Section 8.2.3(B)(2) hereafter to reflect such refunds.
- (12) When the customer orders Bill Processing Service, it shall covenant that it has not previously pledged, assigned or otherwise transferred any accounts receivable which may arise from bills rendered by the Telephone Company to the customer's end users.
- (13) When Bill Processing Service is ordered, the customer shall authorize the Telephone Company, in writing, to deny service to end users for nonpayment. If that authorization is not received, Bill Processing Service will not be provided.

(E) Payment Arrangements and Audit Provision

(1) Audit Provision

Upon written notice by the customer to the Telephone Company, the customer shall have the right, through its authorized representative, to examine and audit, during normal business hours and at reasonable intervals determined by the Telephone Company, all such records and accounts that under recognized accounting practices may contain information bearing upon the amount payable to the customer. Adjustment shall be made by the proper party to compensate for any errors or omissions disclosed by such examination or audit. Neither such right to examine and audit nor the right to receive such

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(E) Payment Arrangements and Audit Provision (Cont'd)

(1) Audit Provision (Cont'd)

adjustment shall be affected by any statement to the contrary, appearing on checks or otherwise, unless such statement expressly waiving such right appears in a letter signed by the authorized representative of the party having such right and delivered to the other party.

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

(2) Minimum Period

The minimum period for which Message Billing Service is provided and for which charges apply is one year. If the customer orders Message Processing Service and/or Bill Processing Service for 3 or 5 years, then the minimum period and the period for which charges apply is that period ordered by the customer. A minimum period of 1 year applies for each additional period of service ordered.

If the service is discontinued prior to the end of the period ordered, monthly charges apply for each remaining month and fraction of a month. The monthly charge will be the average of the most recent three months charges.

(3) Minimum Monthly Charge

Message Billing Service is subject to minimum monthly charges.

If either the Message Processing or Bill Processing message volumes are less than 85% of the preceding month's corresponding volume during the service period ordered, the minimum monthly charge will apply. The minimum monthly charge is the average of the most recent three months charges for Message Processing and/or Bill Processing.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(E) Payment Arrangements and Audit Provision (Cont'd)

(4) Cancellation of a Special Order

A customer may cancel a Special Order for Message Billing Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the Special Order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. The service date for Message Billing Service is the date the customer and the Telephone Company mutually agree the service is to start.

When a customer cancels a Special Order for Message Billing Service after the order date, but prior to the start of service, a charge equal to program development costs and any nonrecoverable capital costs incurred by the Telephone Company will apply to the customer.

(5) Changes to Special Orders

When a customer requests changes to a pending Special Order for Message Billing Service, such changes will be undertaken if they can be accommodated by the Telephone Company. A charge equal to any costs incurred by the Telephone Company because of the change will apply.

(F) Rate Regulations

- (1) The Message Processing and Bill Processing Service message charges apply during the yearly periods ordered by the customer. The Telephone Company will not initiate rate changes to the Message Processing Service charges as set forth in (G)(1) following or the Bill Processing Service charges as set forth in (G)(6) following that apply to the customer order during the yearly periods for that specific order. For the purpose of determining the charges applicable to bulk-billed service for Bill Processing Service, a bulk-billed message is a customer message which is used by the Telephone Company to develop the customer bulk-billed charge.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(F) Rate Regulations (Cont'd)

- (2) The Message-Billed Service charge applies each month that one or more messages or related rate elements are billed to an end user. When both interstate and state messages are billed by the Telephone Company to an end user account on the same bill for the customer, the Message Billed Service charge will be split between interstate and intrastate on a basis to be mutually agreed upon. When more than one copy of the end user bill is provided to the end user, the Message-Billed Service charge applies for each additional copy of the end user bill provided.
- (3) A Bulk-Billed Service charge applies each month that one or more bulk-billed charges are billed to an end user. When both interstate and state bulk-billed charges are billed by the Telephone Company to an end user on the same bill for the customer, the bulk-billed Service Charge times 0.5 applies each month. When more than one copy of the end user bill is provided to the end user, the bulk-billed Service charge applies for each additional copy of the end user bill provided.
- (4) When message detail is data-transmitted to or received from an Exchange Telephone Company location by the Telephone Company, a charge as set forth in (G)(3) following, on a per record basis will apply. A record is a logical grouping of information as described in the program that processes the information and loads the magnetic tape or data file used to supply the message detail which is data-transmitted. The Telephone Company will determine this charge based on its count of the records transmitted.
- (5) When message detail is data-transmitted to or received from a customer location by the Telephone Company, a charge, as set forth in (G)(5) and/or (G)(10) following, on a per record basis will apply. A record is a logical grouping of information as described in the program that processes the information and loads the magnetic tape or data file used to supply the message detail which is data-transmitted. The Telephone Company will determine this charge based on its count of the records transmitted and/or received.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(F) Rate Regulations (Cont'd)

- (6) The End User Account Activity Charges applies whenever a customer Special Order requests end user account data be established or changed, nonrecurring or recurring customer rate element(s) be added or changed in an end user account and/or an end user balance due be changed. The end user account activity charges apply whenever a customer requests Provision of Information about end user message bill charges or Investigation of end user message bill charges.

An end user account is a record for message-billed service or bulk-billed service which has a unique name and address and billing identification number, assigned by the Telephone Company, to which a bill is rendered.

The End User Account Establishment and Change Charge, End User Account Rate Element Rate Level Change Charge or the End User Account Rate Element Rate Structure Change Charge may apply depending on the activity ordered by the customer as set forth in (a), (b) and (c) following.

- (a) The End User Account Establishment and Change Charge applies whenever customer furnished information is used by the Telephone Company to establish or change end user account data or rate elements, or balances due, except for information to change end user account rate element rate levels or rate structure. End User account rate element rate level and rate structure change charges are applied as set forth in (b) and (c) following.

In addition, the end user Account Establishment and Change Charge does not apply when rated messages are posted to a message-billed account associated with an End User common line. The End User Account Establishment and Change Charge does apply when the Telephone Company, at the request of a customer, establishes or changes a message-billed account with a credit card but without an associated end user common line. The End User Account Establishment and Change Charge applies for each account established, rate element established, account changed, rate element changed and balance due changed.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(F) Rate Regulations (Cont'd)

(6) (Cont'd)

- (b) The End User Account Rate Element Rate Level Change Charge applies whenever customer furnished information is used by the Telephone Company to change an end user account rate element rate level. The charges to make the end user account rate level changes will be determined on an individual case basis.
- (c) The End User Account Rate Element Rate Structure Change Charge applies whenever customer furnished information is used by the Telephone Company to change an end user account rate element rate structure. The charges to make the end user account rate element rate structure changes will be determined on an individual case basis.
- (7) When message detail is entered on a data file or magnetic tape to be provided to a customer, the per tape charge applies for each data file or tape prepared and the per record charge applies for each record processed. A record is a logical grouping of information as described in the programs that process the information and load the magnetic tapes or data file. The Telephone Company will determine the charges based on the number of data files or tapes prepared and on its count of the records processed. The number of records processed will be determined using the number of records input to or the number of records output from the programs that process the information and load the magnetic tapes or data file whichever number of records is higher.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(F) Rate Regulations (Cont'd)

- (8) The rates as set forth in G(6) apply for Bill Processing Service for a message-billed service depending on the total (i.e., sum of interstate and intrastate messages) number of messages billed for an end user account per month. The rate groups are 1 to 10 messages per month, 11 to 100 messages per month, 101 to 600 messages per month and over 600 messages per month. The rate for the largest number of messages billed for the end user account in a month will be used to determine the Bill Processing Service charges for that end user account for the month. The Telephone Company will determine the charges based on its count of messages billed each bill day to an end user account.
- (9) The basic per hour rate and the premium per hour rate for program development is for the use of one hour of one Telephone Company programmer's time.
- (10) The Telephone Company will keep a count of the hours and fraction thereof used by Telephone Company personnel to provide program development and will bill the customer in accordance with these records. The hours for each service ordered will be summed and then rounded to the nearest hour, except that when the total is less than one hour, one hour will be used to determine the charges.
- (11) Customized Billing charges will apply whenever a customer requests billing services not otherwise specified in this tariff. Customized Billing charges may contain recurring as well as nonrecurring charges. Customized Billing charges will be determined on an individual case basis.
- (12) The Telephone Company will keep a count of the number of orders from the customer of (a) Provision of Information about end user message bill charges and (b) Investigation of end user message bill charges. Each end user message shown in the customer order where either Information and/or Investigation is requested, will be considered a request for which charges, as set forth in (G)(13) and/or (G)(14) following, will apply. If the Information response requested is a copy of the bill or charges posted but unbilled and another Information response for the same end user account is requested, the charge will apply for each request.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(G) Rates and Charges

The rates and charges are:

	<u>FID</u>	<u>USOC</u>	<u>Rates</u>
(1) Message Processing Service		BABM+	
- 1 year period, per message			\$.0130
- 3 year period, per message			.0120
- 5 year period, per message			.0110
 (2) Program Development,			
- Basic, per hour			\$ 80.00
(applicable to work performed within the Telephone Company's normal work schedule and using the normal work force)			
 - Premium, per hour			\$100.00
(applicable to work performed outside the Telephone Company's normal work schedule and/or which requires additions to the work force)			
 (3) Data Transmission of rated message detail between other Exchange Telephone Company locations,			
- per record transmitted	TRMD A		\$ 0.0020
- per record received	TRMD B		0.0020
 (4) Provision of Rated Message Detail,		PRMD	
- per record processed			\$.0048
- per tape or data file			50.00
 (5) Data Transmission to a location designated by a customer of rated message details,			ICB rates and charges apply.
- per record transmitted	BOD DT		

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(G) Rates and Charges (Cont'd)

USOC	Rates			
	Messages per End User			
	Account Per Month			
	1 to	11 to	101 to	Over
	10	100	600	600

(6) Bill Processing Service,				
message-billed processing, BABB+				
- 1 year period,				
per message	\$.0720	\$.0670	\$.0570	\$.0520
- 3 year period,				
per message	.0650	.0600	.0500	.0450
- 5 year period,				
per message	.0550	.0500	.0400	.0350
message-billed inquiry, BABQ+				
- per message			<u>Rates</u>	
			\$.0200	
bulk-billed processing, BABU+				
- 1 year period,				
per message			\$.0380	
- 3 year period,				
per message			.0125	
- 5 year period,				
per message			.0100	
bulk-billed inquiry, BABY+				
- per message			.0100	

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(G) Rates and Charges (Cont'd)

	<u>Rates</u>
(7) Message-Billed Service, in which one or more messages or message service related rate elements are billed - per bill rendered for an end user account	\$.6000
(8) Bulk-Billed Service, in which a charge associated with a bulk-billed service is billed, - per bill rendered for an end user account	\$.6000
(9) End User Account Activity, - End User Account Establishment and Change Charge, (except rate element rate level changes and rate structure Change) per end user account established or changed, per recurring or nonrecurring rate element established or changed and end user balance due changed, each end user Service Order	\$3.00
- End User Account Rate Element Rate Level Change Charge, per rate element changed, each	ICB rates and charges apply.
- End User Account Rate Element Rate Structure Change Charge, per rate element changed, each	ICB rates and charges apply.
(10) Data Transmission from a customer location of Message Billing Service detail or information, - per record received	ICB rates and charges apply.
(11) Retention of Records Under Accounting Orders, - per order per month	ICB rates and charges apply.
(12) Customized Billing Service	ICB rates and charges apply.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.1 Message Billing Service (Cont'd)

(G) Rates and Charges (Cont'd)

(13) Provision of Information
about customer end user
message bill charges
- per request

(14) Investigation of end
user message bill charges
- per request

Rates

ICB Rates
and Charges
Apply

ICB Rates
and Charges
Apply

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service

The Telephone Company will not render bills for usage-based rate elements under this section of the tariff. Usage-based rate elements will be billed as set forth in 8.2.1 preceding.

(A) General Description

Private Line Billing Service includes editing and rating, account establishment, rendering of bills, receiving payments, maintenance of accounts, treatment of accounts and inquiry (when ordered by the customer).

Editing and Rating is the examination and identification of all the rateable elements of a customer private line service and the application of the appropriate customer rates and charges to the service. These functions are performed when private line services for a customer's end user are established or changed. Rating is always performed, and editing may be performed, coincident with the implementation of a change in the customer's schedule of rates.

Account Establishment is the preparation of a customer end user record so that a bill can be sent to that end user.

Rendering of Bills is the preparation and mailing of statements of the amounts due from end users for service received from the customer. These statements may, at Telephone Company choice, be included as part of the regular monthly bill for local Telephone Exchange Service mailed to the end user.

Receiving Payment and Maintenance of Accounts is the collecting of monies from end users for services furnished by the customer and maintenance of records of all transactions.

Treatment of Accounts is the forwarding of notices of delinquent or unpaid end user accounts, posting credits and adjustments, and when necessary as determined by the Telephone Company, denial of the customer's Special Access Service.

Inquiry is the negotiating of credits and adjustments to end user accounts and review of customer charges which are removed from an end user's bill.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(B) Undertaking of the Telephone Company

- (1) When Private Line Billing Service is ordered by a customer, the Telephone Company will establish a Private Line Account, edit and rate the billing detail, bill the end user and maintain and treat the Private Line Account (based on the rate and end user data supplied by the customer) at the rates and charges set forth in (G) following, and in (2) through (14) following. The Telephone Company will not establish a Private Line end user account with any customer balance due.

The Telephone Company will make adjustments to end user balances due to account for application of credits authorized by customer furnished statements.

- (2) Private Line Billing Service records and end user accounts will be maintained by the Telephone Company in a standard format in order to identify the end user and bill the rateable elements. The Telephone Company will establish this format and provide it to the customer. The Telephone Company will also establish the format it will use to bill private line services and provide it to the customer. If, in the course of Telephone Company business, it is necessary to change these formats, the Telephone Company will notify the involved customers six months prior to the change.
- (3) The Telephone Company will develop the customer's schedule of rates and charges into a rating program. Program development charges, as set forth in (G)(3) following, apply for the hours required to design, develop, test and maintain the necessary programs.
- (4) Upon acceptance by the Telephone Company of a Special Order for Private Line Billing Service from a customer, the Telephone Company will determine the period of time to implement such service on an individual case basis.
- (5) Changes in the rate levels of customer services to be billed will normally be implemented within 60 days after receipt of a Special Order from the customer requesting such changes. Such changes will require modifications of the rating program. Program development charges, set forth in (G)(3) following, apply for the hours required to design, develop, test and maintain the necessary program changes.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

- (6) Changes in the rate structure of the customer services to be billed also require a change in the rating programs. When the Telephone Company determines that it can accommodate the changes, the conditions and the period of time required to make such changes will be determined on an individual case basis. Program development charges, as set forth in (G)(3) following, apply for the hours required to design, develop, test and maintain the necessary program changes.
- (7) The Telephone Company will not provide any information related to Private Line Billing Service accounts under this section of the tariff. Private Line Billing Service information may be obtained as set forth in 8.4 following.
- (8) The Telephone Company will, at the option of the customer, provide Private Line Billing with or without inquiry. When the Telephone Company provides Private Line Billing with inquiry, the Telephone Company will be responsible for contacts and arrangements with the customer's end users concerning the billing, collecting, crediting and adjusting of the customer service charges, except prior customer balances due from end users, in accordance with written instructions furnished by the customer. At the request of the customer, the billed customer charges which are removed from the end user bill in accordance with the customer inquiry instructions will be reviewed for unauthorized use of the customer service by Telephone Company message investigation groups for a period of up to 90 days after the billed date of the customer charges. For any billed customer charges which are removed from an end user's balance due in accordance with the customer's instructions, the Telephone Company will make an appropriate adjustment to the customer's accounts receivable. When the Telephone Company provides Private Line Billing without inquiry, all contacts from End Users concerning the customer's billed amounts will be referred to the customer and the Telephone Company will only be responsible for contacts with end users concerning the collection of customer service charges, except prior customer balances due from end users. Inquiry will only be provided for those end user accounts for which the customer has ordered Private Line Billing.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

- (9) When the Telephone Company encounters bills which are to be rendered to end users or end user billing addresses not located in the Telephone Company's operating territory or in a state where Private Line Billing Service has not been ordered, such bills will be handled as follows:
- (a) If the bill to the end user is for a service for which the Telephone Company provides a Special Access Service to the customer and the customer has ordered the appropriate Private Line Billing Service, the Telephone Company will bill the end user.
- (b) In all other situations, the bill will be delivered to the customer and the customer shall be responsible to furnish an accounts receivable adjustment to the Telephone Company as set forth in 8.2.3 following.
- (10) The Telephone Company will accept customer gift certificates for payment from end users if the customer agrees in writing to redeem all such gift certificates. The value of each gift certificate will be applied to the total amount due. The format of the gift certificates must be in bank draft format.
- (11) Where the rates for customer services have been implemented under an accounting order pending final approval from a regulatory agency, the Telephone Company will, upon written request from the customer, keep such records as may be required to make any adjustments to the end users as may be ordered by the regulatory agency. The charges for such a service will be determined on an individual case basis.
- (12) The Telephone Company will provide Private Line Billing Services under a Special Order. The format of this Special Order will be specified by the Telephone Company.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(B) Undertaking of the Telephone Company (Cont'd)

(13) The Telephone Company will arrange with the customer to accept under a Special Order end user account information to establish and change end user account data, establish and change end user account rate elements and change end user balances due. The methods, procedures and manner in which the end user account data and changes are forwarded to the Telephone Company must be mutually agreeable to the Telephone Company.

(14) If the customer requests the Private Line bills be reprocessed by the Telephone Company because of a customer error, the Telephone Company will treat the reprocessing as a rate level or rate structure change. Determination of whether the reprocessing is a rate level change or rate structure change will be made by the Telephone Company based on the Special Order the Telephone Company receives from the customer. All appropriate charges as set forth in (G) following will apply.

(C) Liability of the Telephone Company

Notwithstanding 2.1.3 preceding, the Telephone Company liability for Private Line Billing Service is as follows:

(1) If Private Line Billing detail is not available because the Telephone Company lost or damaged records or incurred processing system outages, the Telephone Company will recover the lost detail based on previously received information. This recovered detail will be provided to the customer if the customer has ordered the appropriate Billing Information Service as set forth in 8.4 following. If the detail cannot be recovered, the extent of the Telephone Company's liability for damages will be the known amount not billed or when the amount not billed is unknown, no more than 3 months charges for the services not billed.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(C) Liability of the Telephone Company (Cont'd)

- (2) When the Telephone Company is notified that, due to its error or omission, incomplete detail has been provided to the customer when such detail has been ordered as set forth in 8.4 following, the Telephone Company will make a reasonable effort to recover the detail and provide such information to the customer at no additional charge to the customer. Such request to recover the detail must be made within 30 days from the date the details were initially made available to the customer. If the detail cannot be recovered, the extent of the Telephone Company's liability for damages will be the known amount not billed or when the amount not billed is unknown, no more than 3 months charges for the services not billed.
- (3) If the Telephone Company finds, or is notified of, an error in billing to an end user, it will make a reasonable effort to correct the error and bill the appropriate end user within the limits permitted by laws of the state in which it provides the service. If the error is caused by the Telephone Company and the Telephone Company cannot timely bill the proper end user the extent of the Telephone Company's liability for damages will be the known amount misbilled or when the amount misbilled is unknown, no more than 3 months charges for the services misbilled.
- (4) In the absence of willful misconduct, no liability for damages to the customer or other person or entity other than that as set forth in (1), (2) and (3) preceding shall attach to the Telephone Company for its action or conduct of its employees.

(D) Obligations of the Customer

- (1) The customer shall order Private Line Billing Service under a Special Order for each state where service is desired.

When Private Line Billing Service is ordered initially, the customer shall order the service for at least one year. Thereafter, upon six months written notice, additional service may be ordered for a minimum of one year and the rates and charges as set forth in (G) following will apply. Not later than three months prior

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(D) Obligations of the Customer (Cont'd)

(1) (Cont'd)

to the end of an order period, the customer shall notify the Telephone Company in writing if service is to be discontinued at the end of the period. If no notice is received from the customer, the Telephone Company will automatically extend the service for an additional year. All appropriate rates and charges as set forth in (G) following for another year will apply. The customer will be notified by the Telephone Company when such an extension is made.

- (2) When Private Line Billing Service is ordered, the customer shall furnish the Telephone Company for each state and for each year in the order an estimate of the average number of bills (bill capacity) to be rendered each year.
- (3) The customer shall furnish in the format specified by the Telephone Company all information necessary for the Telephone Company to provide the Private Line Billing Service including an affidavit that states whether the customer Private Line Service is subject to any Federal taxes and/or Local and/or State taxes. When customer bills are to be rendered to locations not in the operating territory of the Telephone Company, the customer shall furnish an address where the bills are to be sent. If the customer does not furnish an address, all unaddressable bills will be delivered to the customer. The information shall be furnished by the customer one month prior to the time of processing.
- (4) The customer shall furnish to the Telephone Company a written schedule of its service rates and charges in sufficient time to allow the Telephone Company to establish a rating program. The interval required to establish a rating program must be mutually agreed to by the Telephone Company and the customer.
- (5) When the customer orders Private Line Billing Service, it shall authorize the Telephone Company in writing to deny service, where applicable, to end users for nonpayment. If that authorization is not received, Private Line Billing Service will not be provided.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(D) Obligations of the Customer (Cont'd)

- (6) The customer shall be responsible for all contacts and arrangements, including prior customer balances due from end users, with its end users concerning the provision and maintenance of the customer's services.
- (7) When the customer orders Private Line Billing Service with inquiry, the customer shall furnish the Telephone Company written instructions which are agreeable to the Telephone Company, for the handling of end user questions about bills.

When the customer orders Private Line Billing Service without inquiry, the customer shall furnish the Telephone Company with written instructions as to where inquiries are to be referred. When the customer does not order Telephone Company Inquiry Services and desires credit adjustments be made to the balances due from an end user, the customer shall furnish a statement for each end user account where the credit is desired. These statements shall show the rate element to be credited, the date the rate element was billed and the amount of the credit.

The customer shall notify its end users through its tariff or other appropriate means when the customer handles the bill inquiries. The customer shall furnish the Telephone Company in writing all bill adjustments as set forth in 8.2.3 following.

- (8) The customer will immediately redeem all customer gift certificates that the Telephone Company receives in payment for end user charges. The customer agrees to use a gift certificate in bank draft format.
- (9) The customer agrees to permit the Telephone Company to, when necessary in accordance with Telephone Company deposit regulations, determine and collect service deposits from end users of the customer's services for which the Telephone Company provides billing for the customer. The customer will notify its end users through its tariffs or other means that the Telephone Company will, when necessary in accordance with Telephone Company deposit regulations, determine and collect service deposits.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(E) Payment Arrangements and Audit Provisions

(1) Audit Provisions

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

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

(2) Minimum Periods

The minimum period for which Private Line Billing Service is provided, and for which charges apply, is one year.

A minimum period of one year applies for each additional period of service ordered.

When service is discontinued prior to the expiration of a minimum period, the minimum monthly charge is applicable for each month and fraction of month remaining in the minimum period. The minimum monthly charge is the average of the prior three months charges.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(E) Payment Arrangements and Audit Provisions (Cont'd)

(3) Minimum Monthly Charges

If the number of bills rendered are less than 85% of the preceding month's corresponding number during the service period ordered, the minimum monthly charge will apply. The minimum monthly charge is the average of the most recent three months charges.

(4) Cancellation of a Special Order

A customer may cancel a Special Order for Private Line Billing Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the Special Order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. The service date for Private Line Billing Service is the date that the customer and the Telephone Company mutually agree service is to start.

When a customer cancels a Special Order for Private Line Billing Service after the order date but prior to the start of service, a charge equal to the program development costs and any nonrecoverable capital costs incurred by the Telephone Company will apply to the customer.

(5) Changes to Special Orders

When a customer requests changes to a pending Special Order for Private Line Billing Service, such changes will be undertaken if they can be accommodated by the Telephone Company. A charge equal to any costs incurred by the Telephone Company because of the change will apply.

(F) Rate Regulations

- (1) The End User account activity charge applies whenever an end user account is established or changed pursuant to a Special Order from a customer and/or whenever a nonrecurring or recurring customer rate element or balance due is added to or changed in the account.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(F) Rate Regulations (Cont'd)

(1) (Cont'd)

An end user account is a record for a Private Line Billing Service which has a unique name and address and billing number identification, assigned by the Telephone Company, to which a bill is rendered.

The End User Account Establishment and Change Charge, End User Account Rate Element Rate Level Change Charge or the End User Account Rate Element Rate Structure Change Charge may apply depending on the activity ordered by the customer as set forth in (a), (b) and (c) following.

- (a) The End User Account Establishment and Change Charge applies whenever customer furnished information is used by the Telephone Company to establish or change end user account data or rate elements or balance due, except for information to change End User account rate element rate levels or rate structure. end user account rate element rate level and rate structure change charges are applied as set forth in (c) and (d) following.

The End User Account Establishment and Change Charge applies for each account established, rate element established, account changed and rate element changed and balance due changed.

- (b) The End User Account Rate Element Rate Level Change Charge applies whenever customer furnished information is used by the Telephone Company to change an end user account rate element rate level. The charges to make the end user account rate element rate level changes will be determined on an individual case basis.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(F) Rate Regulations (Cont'd)

(1) (Cont'd)

- (c) The End User Account Rate Element Rate Structure Change Charge applies whenever customer furnished information is used by the Telephone Company to change an end user account rate element rate structure. The charges to make the end user account rate element rate structure changes will be determined on an individual case basis.
- (2) The Bill Rendering Charge applies each month that one or more charges are billed by the issuing of a statement to an end user account. When both interstate and intrastate private line service charges are billed by the Telephone Company to the end user on the same bill for the customer, the Bill rendering charge times 0.5 applies each month.
- (3) The Basic Per Hour Rate and the Premium Per Hour Rate for program development is for the use of one hour of one Telephone Company programmer's time.
- (4) The Telephone Company will keep a count of the hours and fraction thereof used by Telephone Company personnel to provide program development and will bill the customer in accordance with these records. The hours for each order will be summed and then rounded to the nearest hour, except that when the total is less than an hour, one hour will be used to determine the charges.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(G) Rates and Charges

The rates and charges are:

	<u>USOC</u>	<u>Rates</u>
(1) End User Account Activity, - Special Order to receive		
- End User Account Establishment and Change Charge, (except rate element rate level changes and rate structure changes) per end user account established or changed and per recurring and nonrecurring rate element established or changed, each end user Service Order		\$3.00
- End User Account Rate Element Rate Level Change Charge, per rate element changed, each		ICB rates and charges apply.
- End User Account Rate Element Rate Structure Change Charge, per rate element changed, each		ICB rates and charges apply.
(2) Bill rendering charge, - per bill rendered for an end user account, each	BABPR	\$0.80

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.2 Private Line Billing Service (Cont'd)

(G) Rates and Charges (Cont'd)

	<u>USOC</u>	<u>Rates</u>
(3) Program Development Charge		
- Basic, per hour (applicable to work performed within the Telephone Company's normal work schedule and using the normal work force)		\$ 80.00
- Premium, per hour (applicable to work performed outside the Telephone Company's normal work schedule and/or which requires additions to the work force)		\$100.00
(4) Inquiry, - per bill rendered for an end user account	BABPQ	\$.60
(5) Retention of Records Under Accounting Orders, - per order per month		ICB rates and charges apply.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.3 Purchase of Accounts Receivable

The Telephone Company, unless it agrees to act as a billing agency, will purchase from the customer its accounts receivable that arise from bills rendered by the Telephone Company to that customer's end users. The purchase of accounts receivable will be limited to amounts due the customer when the Telephone Company provides Bill Processing Service and/or Private Line Billing Service for that customer. After a customer orders Bill Processing Service and/or Private Line Billing Service and the Telephone Company is purchasing the customer's accounts receivable, the customer is prohibited from assigning, transferring, selling, exchanging or giving these accounts receivable to any other entity or person. The customer will provide a written assurance to the Telephone Company as to such forbearance and any such assignment, transfer, sale, exchange or gift is null and void and will subject the customer to all liabilities, expenses, costs including attorney fees expended and incurred by the Telephone Company in pursuing exclusive ownership to the accounts receivable.

The Telephone Company's purchase of a customer's accounts receivable shall be with recourse adjustments as set forth in (B) following to account for amounts due the customer that the Telephone Company is unable to collect from the end users which use the customer's services. The amounts due the customer for the purchase of its accounts receivable will be determined as follows:

(A) Total Current Amount Billed

The Telephone Company for each end user bill day (i.e., the billing date on a bill for an end user of a customer's service) will determine from its records the total current amount lawfully billed to the end users for the customer's services, including all taxes applicable to such services. A Total Current Amount Billed will be determined for each customer for each end user bill day.

(B) Recourse Adjustments

For each bill day, the Telephone Company will make recourse adjustments to the Total Current Amount Billed as follows:

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.3 Purchase of Accounts Receivable (Cont'd)

(B) Recourse Adjustments (Cont'd)

(1) End User Adjustments

For each bill day, the Telephone Company will subtract from the Total Current Amount Billed the lawfully billed amounts which the Telephone Company removes from end users balances due in accordance with customer inquiry instructions.

(2) Telephone Company and Customer Adjustments

For each bill day, the Telephone Company will subtract from the Total Current Amount Billed bill amounts for end user bills which the Telephone Company delivers to the customer. In addition, for each bill day, the Telephone Company may make adjustments to the Total Current Amount Billed to account for amounts on statements received from the customer for additions or subtractions to an end user balance due for services billed in prior periods.

Also, each bill day, the Telephone Company may make adjustments to the Total Current Amount Billed to account for additions and subtractions for customer or Telephone Company prior billing period errors.

(3) Uncollectible Adjustments

For each bill day, the Telephone Company will subtract from the Total Current Amount Billed an amount for uncollectibles and other risks associated with the purchase of accounts receivable. Uncollectibles are amounts billed by the Telephone Company to end users on final customer bills that are unpaid. The Telephone Company will determine the customer amount for uncollectibles for each bill day by multiplying the Total Current Amount Billed by the appropriate factor as selected by the customer from the following options.

(a) Fixed Uncollectible Factor

A uniform fixed uncollectible rate will apply to all message services billed by the Telephone Company.

A distinct uniform fixed uncollectible rate will apply to all Private Line and bulk-billed services billed by the Telephone Company.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.3 Purchase of Accounts Receivable (Cont'd)

(B) Recourse Adjustments (Cont'd)

(3) Uncollectible Adjustments (Cont'd)

(b) Variable Uncollectible Factor

When a customer orders Bill Processing Service and/or Private Line Billing Service, an uncollectible factor will be developed on an individual case basis that will be used to determine the customer amount for anticipated uncollectibles for the first twelve month period. At the end of this period, a true-up will occur that will reconcile the customer's realized uncollectibles with the amount withheld for anticipated uncollectibles. The terms of settlement for these amounts will be negotiated on an individual case basis.

After the end of the twelfth month that Bill Processing Service and/or Private Line Billing Service is provided to the customer, and at specified intervals thereafter, the Telephone Company will revise the uncollectible factor to be used in determining the customer amounts for anticipated uncollectibles in the ensuing interval. A true-up will occur that will reconcile the customer's realized uncollectibles with the amount withheld for anticipated uncollectibles for the preceding interval. The terms of settlement for these amounts will be negotiated on an individual case basis. The Telephone Company will determine the total amount which, after completion of standard collection efforts, was written off (realized uncollectibles) on Final End User Accounts during the most recent interval.

This realized uncollectible amount will include adjustments to account for any payments received by the Telephone Company for outstanding Final Customer Bill amounts that pre-date the most recent interval. The realized uncollectible accounts will be used by the Telephone Company in an uncollectible apportionment sample study to determine the realized uncollectible amount for each customer which is provided Bill Processing Service and/or Private Line Billing Service by the Telephone Company for the most

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.3 Purchase of Accounts Receivable (Cont'd)

(B) Recourse Adjustments (Cont'd)

(3) Uncollectible Adjustments (Cont'd)

(b) Variable Uncollectible Factor (Cont'd)

recent interval. This realized uncollectible amount for a customer will be divided by the Total Current Amount Billed for the customer during the same interval. The result of this calculation will be the customer anticipated uncollectible factor to be used in the ensuing interval.

Seven months after termination of Bill Processing Service and/or Private Line Billing Service, the Telephone Company will calculate the customer's realized uncollectibles for the same period. To the extent that the customer's amounts for anticipated uncollectibles exceeded its realized uncollectibles, the Telephone Company will remit such amounts to the customer. To the extent that the customer's amounts for anticipated uncollectibles were less than its realized uncollectibles, the Telephone Company will bill the customer. The terms of settlement for these amounts will be negotiated on an individual case basis.

(C) Payments of Net Purchase Amount to the Customer

- (1) The Telephone Company will purchase accounts receivable from the customer for an amount (purchase amount) which equals the Total Current Amount Billed as set forth in (A) preceding after known Adjustments as set forth in (B) preceding have been made. A settlement interval will be negotiated with each customer. Settlement interval is defined as the time period from bill date until net proceeds from accounts receivable are transferred to the customer. This settlement interval will approximate the payment interval (e.g. the average time period from bill date until good funds are received from end user), and the settlement interval is expected not to be a shorter time period than the payment interval.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.3 Purchase of Accounts Receivable (Cont'd)

(C) Payments of Net Purchase Amount to the Customer (Cont'd)

(1) (Cont'd)

If settlement occurs beyond the terms negotiated, interest will be charged during the time period exceeding the settlement interval at a rate which would allow the Telephone Company to earn a return on its investment in the accounts receivable which is equal or greater than the Telephone Company's pretax incremental cost of capital. Each payment date will fall on the last day of the settlement interval. Payment will be made in immediately available funds. If such payment date would cause payment to be due on a Saturday, Sunday or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the Second Tuesday in November and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment for the net purchase amount will be due to the customer as follows:

If such payment date falls on a Sunday or on a holiday which is observed on a Monday, the payment date shall be the first non-Holiday day following such Sunday or Holiday. If such payment date falls on a Saturday or on a Holiday which is observed on Tuesday, Wednesday, Thursday or Friday, the payment date shall be the last non-Holiday day preceding such Saturday or Holiday.

- (2) Further, if any portion of the net purchase amount is not received by the customer by the payment date as set forth in (1) preceding, or if any portion of the net purchase amount is received by the customer in funds which are not immediately available to the customer, then a late payment penalty shall be due the customer. The late payment penalty shall be the portion of the net purchase amount not received by the payment date times a late factor. The late factor shall be the same as that identified in (1) above.

Any late payment penalty will be included with the next Telephone Company payment to the customer.

8. Billing and Collection Services (Cont'd)

8.2 Billing Service (Cont'd)

8.2.3 Purchase of Accounts Receivable (Cont'd)

(C) Payments of Net Purchase Amount to the Customer (Cont'd)

- (3) Also, if any adjustment that reduces an end user balance due is received by the Telephone Company from the customer after the date the Telephone Company billed the charges to be adjusted to the end user plus 45 days (billed plus date), then a late payment penalty shall be due the Telephone Company. The late payment penalty shall be the adjustment amount times a late factor. The late factor shall be the same as that identified in (1) and (2) above.

Any late payment penalty will be included with the adjustment made by the Telephone Company to the customer's Total Current Amount Billed.

(D) Netting of Customer Access Service Charges and Net Purchase Amounts

When a payment for customer Access Service Charges under this tariff is due to the Telephone Company from the customer on the same payment date that a net purchase amount is due to the customer from the Telephone Company, the Telephone Company may on a mutually agreeable basis, net the payment for customer Access Service Charges with the net purchase amount. The Telephone Company will pay the net amount to the customer on the payment date when such net amount is due the customer or require the customer to pay the Telephone Company the net amount when such net amount is due the Telephone Company. If either party does not make the payment on the payment date, a late payment penalty as set forth in (C) preceding or 2.4.1(B)(3) preceding, whichever is appropriate, applies.

Upon request from the customer, the Telephone Company will provide a copy of its methods and procedures used to determine the amounts named in this section (i.e., 8.2.3 Purchase of Accounts Receivable) to the authorized representative of the customer who is responsible for auditing these amounts.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service

At the request of a customer, the Telephone Company may provide Billing Analysis Services for detection, investigation and deterrence of suspected billing evasion activities against the customer, using Telephone Company facilities.

The term "billing evasion activities" used herein denotes any activity that attempts to circumvent, prevent, or evade the proper charges, in whole or in part, for the use of telecommunication service. These billing evasion activities may include, but are not restricted to, criminal behavior as described in local, state and federal statutes.

Note: A customer is defined as an interexchange carrier or reseller. The Telephone Company herein is the Northwestern Bell Telephone Company.

8.3.1 General Description

Billing Analysis Service provides for the detection, investigation and deterrence of billing evasion activities.

Detection - The identification and reporting to a customer by the Telephone Company, of suspected billing evasion activities involving the use of Telephone Company facilities.

Investigation - The provision of services to collect evidence documenting billing evasion activities involving the use of Telephone Company facilities.

Deterrence - The provision of services that include; expert witness testimony, contacting and interviewing parties identified by the Telephone Company as being involved in billing evasion activities, identification and recovery of devices and/or materials used in billing evasion activities, arrest and conviction and publicity assistance, when deemed appropriate by the Telephone Company.

Message Investigation - is the provision of services to detect, investigate, and deter billing evasion activities. Message Investigation includes, but is not restricted to, Calling Card fraud, Third Number Billing, Mobile Phone fraud, fraudulent subscription of services, computer service fraud, and theft of service by wire.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.1 General Description (Cont'd)

In the process of doing business, a customer may request services for needs not covered by this tariff which would require modifications to the Billing Analysis process. In this event, the customer may present this request to the Telephone Company describing the speciality of the case. If the Telephone Company agrees, and the modifications are feasible, the case may be worked and the charges will be determined on an individual case basis.

8.3.2 Undertaking of the Telephone Company

Billing Analysis Service can be ordered by an authorized Security representative, or the authorized representative of the customer, under a Special Service Order. The Telephone Company will provide any or all of the services as set forth in this section at the rates and charges shown in Section 8.3.7.

- (A) Detection Service is the identification and reporting of suspected billing evasion activities using the customer's facilities accessed by Telephone Company facilities. After reviewing the data submitted by the customer describing the suspected fraud usage, the Telephone Company security personnel will analyze data and resources, isolate and identify activity indicating suspected abuse of the customer's facilities. A Subject Number List will be prepared showing all the numbers whose activity meets the criteria for the suspected fraud activity. A written list will be provided to the authorized security representative of the customer at mutually agreed upon intervals.

The Subject Number List may include any or all of the following:

- (1) The calling telephone number; NPA-NXX-XXXX
- (2) The called number if recorded in Telephone Company records.
- (3) Any signalling irregularity data (e.g. - the alternate destination called number).
- (4) The date and originating, connect, and disconnect times of the suspect calls (when available).

The method of transmission of the Subject Number List from the Telephone Company to the customer will be arranged by mutual consent at the outset of the investigation.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.2 Undertaking of the Telephone Company (Cont'd)

(A) (Cont'd)

As part of the Electronic Detection Service, the Telephone Company, if possible, may provide a continuous scan of a trunk group, particular to that customer's facilities, out of a specific originating Central Office or geographic location that would correspond to the suspected fraud details submitted by the customer.

Any special arrangements such as special construction, hardware or software outside the scope of the Telephone Company's existing facilities, mutually deemed necessary for the detection of fraud, will be in addition to the rates and charges listed in Section 8.3.7, and will be determined on an individual case basis.

- (B) Investigation will be provided to a customer by the telephone company security personnel under a Special Service Order from an authorized representative of a customer. The details of the suspected fraud case must be presented in writing or by consultation to the Telephone Company security representative for approval.

Investigation consists of the gathering of evidence and documentation to support the alleged fraud.

- (1) Phase I is the documentation of electronic fraud by equipment designed to detect irregular signalling.
- (2) Phase II is the documentation of evidence gathered, by analysis of internal company data that could be evidence of the suspected fraud.
- (3) Phase III is the documentation of evidence gathered showing the use of unauthorized access codes, authority codes, passwords, or any other means to misuse service from networks or computers, accessed by Telephone Company facilities.
- (4) A documentation scan is the documentation of calling activity of a selected subject's telephone service.

All requests for Investigative Services are subject to the approval of the Telephone Company security personnel.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.2 Undertaking of the Telephone Company (Cont'd)

(B) (Cont'd)

All investigative methods and procedures used by the Telephone Company personnel will be in accordance with Federal and State laws and decisions as well as regulatory guidelines.

All evidence and documentation gathered in any phase of investigation will be considered the property of the Telephone Company.

The Telephone Company, at its discretion, or by subpoena, will present evidence and/or documentation to the proper legal authorities, after consultation and agreement with the authorized Security representative of the customer that the case should be prosecuted.

- (C) Deterrence Services for Billing evasion activities involving the use of Telephone Company facilities will be provided by the Telephone Company security personnel upon receipt of a Special Service Order from the authorized security representative of a customer. The request should specify the deterrence service(s) desired for each particular case or group of cases. Deterrence Services available include assistance to law enforcement agencies, identification and recovery of devices, contact and interview of involved parties, preparation of an affidavit and prosecutive summary, provision of expert witness analysis and/or testimony, consultation and training, and assistance to public relations where deemed proper.

Assistance to law enforcement agencies is the consultation and provision of information regarding billing evasion activity using Telephone Company facilities. This consultation with law enforcement agencies would occur after the customer has contacted the agency and presented their case.

Recovery of devices and materials is the attempt by the Telephone Company security personnel to remove and collect all devices and material associated with billing evasion activity using Telephone Company facilities. This activity may or may not require the accompaniment of law enforcement personnel depending on legal or safety reasons.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.2 Undertaking of the Telephone Company (Cont'd)

(C) (Cont'd)

Contact and interview of parties is written notification, verbal notification or face to face discussion with a party or parties by Telephone Company personnel as part of investigation or as an effort to halt billing evasion activities using telephone facilities. The contact and interview procedures will be mutually determined by the Telephone Company and the customer.

Preparation of an affidavit and prosecutive summary is the documentation of the steps and results of the collection of evidence by Telephone Company security personnel who performed such activities. A written affidavit and summary will be provided to the authorized representative of the customer or the law enforcement agency designated by the customer.

Provision of expert witness analysis is the review, study and other technical support activities provided by the Telephone Company experts to document that any device or material provided for analysis by the customer or law enforcement agency authorized by the customer, does operate, perform, or contain evidence of billing evasion activities using Telephone Company facilities. A written report will be provided to the customer. The expert witness will be selected by the Telephone Company.

Provision of expert testimony is the preparation of written testimony and the submission of that testimony in association with an investigation. The expert witness will be selected by the Telephone Company.

Storage of evidence is the placement of the physical evidence collected by the Telephone Company during an investigation, in a secure location under control of Telephone Company security personnel and/or legal personnel, when requested by a law enforcement agency or an authorized representative of the customer.

Consultation with customer personnel includes the review of customer billing evasion deterrence activities and preventive controls. Also included is provision of advice and training for customer personnel, and the development of security programs for the customer.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.2 Undertaking of the Telephone Company (Cont'd)

(C) (Cont'd)

Publicity Assistance as part of deterrence is the provision of information and/or personnel to publicize billing evasion activities using Telephone Company facilities. The Telephone Company and the customer will mutually determine when publicity is appropriate, and what information will be publicized. Also, they will select, or approve the selection of the personnel and media, if any, to provide this service.

(D) Message Investigation is the detection, investigation and deterrence of those billing evasion activities not specifically covered in the previous Section 8.3.2, A through C. The primary source of data for this type of billing evasion is the appearance of calls on the end user's bill that the end user denies making.

- (1) Calling card fraud is the unauthorized use of another party's Calling card identification number.
- (2) Third number fraud is the unauthorized use of another party's telephone number as the billing number when placing calls.
- (3) Mobile Phone fraud includes any or all activity that causes, or attempt to cause, improper billing of calls made on mobile phones.
- (4) Fraudulent subscription of service is the ordering of toll service with no intention of payment. This case is usually accompanied by falsification of information in contracting the service to avoid billing.
- (5) Theft of service is the unauthorized access of telephone service without the billed end user's knowledge or authorization.
- (6) Theft of computer services is the unauthorized access, via telephone facilities, of any computer, or computer network for fraudulent purposes, or to obtain unauthorized information or services via unauthorized telephone access.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.2 Undertaking of the Telephone Company (Cont'd)

(D) (Cont'd)

If a customer has a continuing need for Message Investigation, and the customer has contracted with the Telephone Company to provide Billing Service, a Blanket Order may be arranged by mutual agreement by the Telephone Company and the customer. The Blanket Order allows the Telephone Company to instigate predetermined type(s) of Message Investigation(s) that meet a set of established criteria.

- (1) The Blanket Order may include any or all of the detection, investigation, deterrence services.
- (2) The Blanket Order may be established for a specified period of time.
- (3) In that the Telephone Company provides Billing Services for the customer, on cases detected under a Blanket Order the Telephone Company can continue the investigation as part of the Blanket Order, through suspect identification, interviews, arrest and convictions, and publicity assistance when deemed appropriate by the Telephone Company.
- (4) Process restitution payment when ordered as a part of sentencing by the court.
- (5) An Activity Report provides a summary of monthly message fraud activities.

If the Telephone Company is unable to identify or contact the suspected party within a mutually agreed upon period of time, the Telephone Company will close the case, and upon written request from the customer, provide the authorized representative of the customer with a written report of the case containing information essential to additional follow-up by the customer.

If requested in writing by the customer, the authorized representative of the customer will be provided with a written summary of cases that are still open, or not completed at the close of the term of a Blanket Order. The written report will contain information essential to additional follow-up by the customer. The Blanket Order may be extended by mutual agreement by the Telephone Company and the customer to care for the outstanding cases.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.2 Undertaking of the Telephone Company (Cont'd)

(D) (Cont'd)

If a customer requests Message Investigation on a case(s) not described above, the authorized representative of the customer may present the details of the case to Telephone Company security personnel for acceptance. If the case has no prohibitions under the law, or company policies or guidelines, the case may be ordered and investigated.

(E) The Telephone Company, upon written request of the customer, may provide personnel for Billing Analysis Service on a premium time basis at premium rates set forth in Section 8.3.6(D). Premium time includes overtime, non-standard business hours, holidays and weekends.

(F) Billing Analysis Services provided under this tariff that requires travel or transportation on the part of Telephone Company personnel or equipment, any out of pocket expenses for such travel, and/or any expenses of the Telephone Company or its personnel will be billed to the customer.

(G) If, at any point in the Billing Analysis Service process, the Telephone Company determines that for any legal, or other justifiable reason, the process should be halted, the decision of the Telephone Company will prevail and the customer will be notified of such decision.

8.3.3 Liability of the Telephone Company

The Telephone Company shall not be liable for damages to the customer or any other person for acts performed pursuant to this tariff, except for acts done willfully with intent to injure another.

8.3.4 Obligations of the Customer

The customer shall initially request Billing Analysis Service by way of a Special Order and shall specify those Billing Analysis Services it wishes to receive by way of individual Special Orders.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.4 Obligations of the Customer (Cont'd)

- (A) With each Blanket Order, the customer shall designate and identify the authorized representative who will be responsible to protect the information and to whom the Billing Analysis Service information will be provided. The customer shall take every effort to ensure Billing Analysis Service information is provided to and used only by authorized personnel involved in customer security matters.
- (B) When Detection Service is ordered, the customer shall specify in writing any parameters or requirements for identifying subjects (e.g., minimum holding time per call, minimum message frequency, nature of criminal activity, minimum billable revenue).

The customer may request a continuous scan as available for current signal irregularities for all trunks serving that customer's facilities, in any marker or control group. The written request for an office-by-office scan must specify the geographic location, office, lines, or parties and the signal irregularities to be scanned. The customer must subscribe to Billing Analysis Detection Service to receive office-by-office scan services. The results of a continuous scan will be reported to the authorized representative of the customer according to a mutually agreed upon schedule.

- (C) When Investigation Service is ordered, the authorized representative of the customer shall specify in writing the details of the criminal activities to be investigated, including the access lines, parties, or messages to be investigated. The customer shall furnish all necessary end user information it possesses as requested by the Telephone Company Security personnel.

When Investigation Service is ordered with documentation and recording done at the Telephone Company Security Office, the customer shall provide if necessary, and at no charge to the Telephone Company, the toll connection between the central office involved and the Telephone Company Security office for use during the investigation period ordered by the customer.

- (D) When a Deterrence Service is ordered in writing by an authorized representative of the customer, any necessary information requested by the Telephone Company to initiate, continue, or complete the service will be provided by the customer.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.4 Obligations of the Customer (Cont'd)

(E) When provision of expert witness analysis is ordered by the customer, the customer shall be responsible for furnishing the device or material to be analyzed.

(F) When provision of expert witness testimony is ordered by the customer, the customer shall include information as to when and where the testimony is needed.

(G) When Message Investigation is ordered, the authorized representative of the customer shall specify in writing any parameters (e.g., number of messages, amount of billable charges) to be met by accumulated messages before a case is opened for the Telephone Company.

The customer may request in writing that particular accumulated messages not meeting the parameters be investigated by the Telephone Company. The customer should specify in the request the Telephone Company billing identification number.

The customer may request in writing that a particular case closed by the Telephone Company be reopened at a later date for continuation of the Telephone Company Message Investigation. The customer must specify in the request the Telephone Company case identification number.

The customer shall be responsible for requesting, in writing, if provision by the Telephone Company of summaries, reports, and/or other documents is required for cases remaining open after completion of the terms of the Blanket Order. Authorized representatives of the customer and Telephone Company will determine mutually agreed upon information to be provided to the customer regarding these cases.

(H) When law enforcement agencies are to be brought into Billing Analysis investigation or deterrence processes, the customer must authorize the Telephone Company to assist the law enforcement agencies. The Telephone Company will assist law enforcement agencies only after the customer lodges a formal complaint with the agencies.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.4 Obligations of the Customer (Cont'd)

- (I) When the Telephone Company requests customers approval to proceed or continue toward the next applicable security procedure, it is the responsibility of the customer to respond to the request in writing within a predetermined period of time stating whether the Telephone Company is to proceed further.
- (J) All inquiries from the customers end users concerning services provided under 8.3 of this tariff are to be handled by the customer. Any questions to the Telephone Company regarding the Billing Analysis Service shall be made only by authorized representatives of the customer.
- (K) All publicizing of actions resulting from services provided under 8.3 of this tariff shall be the responsibility of the customer. The customer shall not publicize that the Telephone Company assisted the customer unless the customer has written permission from an authorized representative of the Telephone Company.
- (L) When the customer desires an estimate of the total charges for the Billing Analysis service(s) ordered or a periodic quotation of charges incurred for the service(s) ordered, the customer shall request such at the time of the order(s).
- (M) The customer shall defend and indemnify the Telephone Company from any loss, claims, or demands, or any liability whatsoever arising out of the Telephone Company's Billing Analysis detection, investigation, or deterrence services provided to the customer, except when the Telephone Company has acted willfully with intent to injure another.

8.3.5 Payment Arrangements

(A) Payments

Payment for Billing Analysis Service when Message Billing Service and/or Private Line Billing Service is provided to the customer will be included in the netting of accounts receivable as set forth in 8.2.3 preceding.

Payment of any charges under this tariff in no way gives the customer any ownership of the telephone equipment or Billing Analysis Service systems established by the Telephone Company to provide Billing Analysis Service.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.5 Payment Arrangements (Cont'd)

(B) Minimum Periods

The minimum period for which Detection Service is provided and for which charges apply is 60 days.

(C) Start of Service

Billing Analysis Service ordered by the customer starts when Telephone Company Security receives the appropriate Special Order.

(D) Cancellation of a Special Order

A customer may cancel a Special Order for Billing Analysis Service prior to the date the Telephone Company is scheduled to complete entering the order details into its order distribution system and no charges will apply.

When the customer cancels a Special Order for Billing Analysis Service after the date the Telephone Company is scheduled to complete entering the order details into its order distribution system but prior to the start of service, a charge equal to any costs incurred by the Telephone Company will apply.

When the customer cancels a Special Order for Billing Analysis Service after the start date of the service, all charges represented by the Special Order will apply to the customer per initial service agreement.

(E) Order Modifications

When a customer requests changes to an existing order for Billing Analysis Service, the changes will be undertaken if they can be accommodated by the Telephone Company. If work on the order has progressed beyond the point where the changes can be efficiently made, the changes will be considered as a discontinuance of the existing order and the placement of a new order and appropriate charges will apply. Any additional time required on the part of Telephone Company personnel resulting from requested changes will be billed to the customer at the appropriate hourly charges.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.6 Rate Regulations

(A) All expenses incurred by the Telephone Company and/or its personnel as a result of travel/transportation required to provide the service ordered by the customer will be accounted for and billed to the customer.

(B) The Telephone Company will keep account of the hours and quarter hours thereof used by Telephone Company personnel and/or equipment to provide the services ordered by the customer and will bill the customer in accordance with these records.

Premium time service as defined in 8.3.2(E) preceding will be charged as follows:

- (1) Overtime and non-standard business hours will be charged at one & 1/2 times the standard hourly service rate.
- (2) Weekend and holiday hours will be charged at 2 times the standard hourly service rate.

(C) The monthly charge for Detection Service and Investigation Service as set forth in 8.3.7(A) following applies even though, after detection and/or investigation is completed, no signaling irregularities or fraud are found.

The charge for recovery of devices or material as set forth in 8.3.7(C) following applies to any authorized attempt whether or not the Telephone Company Security personnel are successful in removing the device/material or are unable to locate and/or remove the device/material.

The charges for contact and interview of parties as set forth in 8.3.7(C) following apply to an authorized contact attempt whether or not the Telephone Company Security personnel are able to successfully contact and interview the party or parties.

The charges for Message Investigation Service as set forth in 8.3.7(D) following apply to all Message Investigation cases handled for the customer whether or not the Telephone Company personnel are successful in identifying the suspect, contacting the suspect, or obtaining full restitution for the billable charges.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.6 Rate Regulations (Cont'd)

(D) If a Message Investigation case is reopened at the request of the customer, the customer shall be billed for any charges appropriate and relevant to the case that are incurred by the Telephone Company as a result of related casework between the data the case was originally closed and the reopening date.

(E) The charges for Deterrence Services as set forth in 8.3.7(C) following applies to all Deterrence Services ordered in conjunction with Message Investigation cases.

8. Billing and Collection Services (Cont'd)

8.3 Billing Analysis Service (Cont'd)

8.3.7 Rates and Charges

The rates and charges on a per-unit basis are as follows:

	<u>USOC</u>	<u>Rates</u>
(A) DETECTION SERVICE	BAATE	
- Subject List		
. 60 Day Report per office, per report		\$35.00
. Continuous Scan per office, per week		\$50.00
(B) INVESTIGATION SERVICE	BAAVE	
- Investigation, per hour		\$70.00
- Documentation Scan per line, per occurrence		\$50.00
(C) DETERRENCE SERVICE	BAATR	
- Assistance to Law Enforcement Agencies, per hour		\$70.00
- Recovery of Devices/Material (with or without Law Enforcement Assistance), per hour		\$70.00
- Contact and Interview of Parties, per hour		\$70.00
- Preparation of Affidavit and Prosecutive Summary, per hour		\$70.00
- Provision of Expert Witness Analysis, per hour		\$70.00
- Provision of Expert Witness Testimony, per hour		\$70.00
- Storage of Evidence, per week		\$ 5.00
- Consultation, per hour		\$70.00
- Assistance to Publicize Deterrence, per hour		\$70.00
(D) MESSAGE INVESTIGATION	BAAVE	
- Security Investigation/ Deterrence, per hour		\$70.00
- Activity Reports, per hour		\$70.00

8. Billing and Collection Services (Cont'd)

8.4 Billing Information Service

At the request of the customer, the Telephone Company will provide information to the customer from its end user records, billing files and account data base.

8.4.1 General Description

Billing Information Service is the provision of information to the customer from Telephone Company record systems labeled as Customer Records Information System (CRIS). Such Billing Information Service will be limited to the provision of information to a customer relating exclusively to end user services provided by that customer. Information relating to services provided by any other entity will not be provided.

Information is defined as any entry in the records, data base or bureau listings which is not listed as proprietary to the Telephone Company. Any entry listed as proprietary to the Telephone Company will not be provided.

8.4.2 Undertaking of the Telephone Company

- (A) When Billing Information Service is ordered by the customer, the Telephone Company will provide information on a request by request basis as follows in (B) through (H) following at the rates and charges as set forth in 8.4.7 following.
- (B) Upon request from a customer and when the customer has ordered Bill Processing Service as defined in 8.2.1, the Telephone Company will provide information from its CRIS records as follows:
- (1) message detail for a message end user
 - (2) account detail for a message end user
 - (3) service and equipment detail for a message end user.

Message detail is message-billed records in exchange message record (EMR) format in the CRIS file.

Account detail is data that furnishes the end user name, billing address and billing parameters other than message detail and/or service and equipment detail.

Service and equipment detail is data associated with the customer's rate elements.

8. Billing and Collection Services (Cont'd)

8.4 Billing Information Service (Cont'd)

8.4.2 Undertaking of the Telephone Company (Cont'd)

(B) (Cont'd)

A message end user is an account with message or bulk-billed detail (for a bill period) or an account which is marked, or established as an end user of the message or bulk-billed services.

Message detail, account detail and/or service and equipment detail which is confidential due to legal, national security, end user or other appropriate requirements will not be provided. If the customer requires this information in order to bill its services, it shall secure written permission from the end user to obtain the information from the Telephone Company. The customer shall furnish the Telephone Company the end user's written permission for the information to be released.

(C) Upon request from a customer and when the customer has ordered Private Line Billing Service, the Telephone Company will provide information from its CRIS records as follows:

- (1) account detail for a private line end user
- (2) service and equipment detail for a private line end user.

Account detail is data that furnishes the end user name, billing address and billing parameters other than message detail and/or service and equipment detail.

Service and equipment detail is data associated with the customer's rate elements.

A private line end user is an account with rate element detail (for a bill period) or an account which is established, at customer request, as an end user of the customer's private line (non-message) services.

Account detail and/or service and equipment detail which is confidential due to legal, national security, end user or other appropriate requirements will not be provided. If the customer requires this information in order to bill its services, it shall secure written permission from the end user to obtain the information from the Telephone Company. The customer shall furnish the Telephone Company the end user's written permission for the information to be released.

8. Billing and Collection Services (Cont'd)

8.4 Billing Information Service (Cont'd)

8.4.2 Undertaking of the Telephone Company (Cont'd)

- (D) Where Telephone Company facilities are available and subject to the agreement of the Telephone Company, CRIS information may be provided on an interrogation basis at the request of the customer.

The interrogation basis will permit the customer to access a data file which contains the data base information from a data processing terminal at a location designated by the customer, furnish an end user telephone number and, after verification that the information is authorized for the customer's use, receive the end user information. The interrogation file will be provided during normal Telephone Company business hours. The CRIS interrogation file will be updated each bill day (day bills are prepared and dated for an end user for a customer's service) and will be updated daily when information is available and when the Telephone Company updates the file on a daily basis to reflect current end user information.

The Telephone Company will develop the customer's CRIS information order into a retrieval and interrogation program. Program development charges, as set forth in 8.4.7 following, apply for the hours required to design, develop, test and maintain the necessary programs.

- (E) CRIS information will be provided on a total file and/or file update basis as follows:

- (1) The total file basis will permit the customer to receive, at the customer's option, all the end user information that is authorized for the customer's use on paper printout, magnetic tape or fiche. The total file output will contain end user information for the current billing period. The billing period will be set by the Telephone Company. The magnetic tapes will be provided without the return of previously supplied tapes. The Telephone Company will supply the magnetic tapes. After the information system ordered by the customer is in service, the paper printout, magnetic tape or fiche will be available from the Telephone Company within 10 working days of the customer request.

8. Billing and Collection Services (Cont'd)

8.4 Billing Information Service (Cont'd)

8.4.2 Undertaking of the Telephone Company (Cont'd)

(E) (Cont'd)

(1) (Cont'd)

Program development charges as set forth in 8.4.7 following, apply for the hours required to design, develop, test and maintain the necessary programs that are used to provide the paper output, magnetic tape or fiche.

Once available, the paper printout magnetic tape or fiche will be sent to the customer via first class U.S. Mail service. At the option of the customer, the customer may pick up the paper printout, magnetic tape or fiche at a location designated by the Telephone Company or request the information be data-transmitted to the customer. When the information is data-transmitted to the customer, the data transmission charges will be determined on an individual case basis.

- (2) The file update basis will permit the customer to receive, at the customer option, all the end user information that is authorized for the customer's use on paper printout, fiche or magnetic tape. The file update output will contain end user information for the current billing period only. The current billing period is the period associated with the most recent bill rendered to an end user. The magnetic tapes will be provided without the return of previously supplied tapes. The Telephone Company will supply magnetic tapes. The file updates will include those records added and those records deleted, if any (deleted records may not be retained by all of the Telephone Companies). For CRIS information, the file updates will be provided on a monthly interval.

Program development charges as set forth in 8.4.7 following, apply for the hours required to design, develop, test and maintain the necessary programs that are used to provide the paper output, fiche or magnetic tape.

8. Billing and Collection Services (Cont'd)

8.4 Billing Information Service (Cont'd)

8.4.2 Undertaking of the Telephone Company (Cont'd)

(E) (Cont'd)

(2) (Cont'd)

Once available, the file update paper printout, fiche or magnetic tape will be sent to the customer via first class U.S. Mail service. At the option of the customer, the customer may pick up the paper output, fiche or magnetic tape at a location designated by the Telephone Company or request the information be data-transmitted to the customer. When the information is data-transmitted to the customer, the data transmission charges will be determined on an individual case basis.

(3) The total file output and the file update output will, at the option of the customer, be provided on a quick turnaround basis. Such quick turnaround output will be provided one working day after the information that the customer ordered is available. Once available, the output will be provided on paper printout, fiche or magnetic tape and will be sent to the customer via first class U.S. Mail service. At the option of the customer, the customer may pick up the paper output, fiche or magnetic tape at a location designated by the Telephone Company or request the information be data-transmitted to the customer. When the information is data-transmitted to the customer, the data transmission charges will be determined on an individual case basis.

(F) Upon acceptance by the Telephone Company of a Special Order for Billing Information Service from a customer, the Telephone Company will determine the period of time to implement such service on an individual order basis.

(G) The Telephone Company will provide the format for interrogation of its data files and the format of any printed, magnetic tape or fiche output from its CRIS files.

(H) If the customer requests the information ordered by the customer be resupplied by the Telephone Company because of incorrect customer specifications or errors, the Telephone Company will resupply the information in accordance with a new customer order and all appropriate charges as set forth in 8.4.7 following will apply.

8. Billing and Collection Services (Cont'd)

8.4 Billing Information Service (Cont'd)

8.4.2 Undertaking of the Telephone Company (Cont'd)

(I) Where facilities are available and subject to the agreement of the Telephone Company, updating of customer data bases or files from Telephone Company data processing terminals or equipment in Telephone Company locations may be undertaken at the request of the customer. The charges for such a service will be determined on an individual case basis.

(J) The Telephone Company will provide Billing Information Service under a Special Order.

8.4.3 Liability of the Telephone Company

Notwithstanding 2.1.3 preceding, in the absence of willful misconduct, no liability for damages to the customer or other person or entity shall attach to the Telephone Company for its action or the conduct of its employees.

8.4.4 Obligations of the Customer

(A) The customer shall order Billing Information Service under a Special Order. The customer shall order those Billing Information Services for the states where it wishes to receive the services and shall specify how often it wishes the service to be provided.

(B) With each order, the customer shall identify the authorized individual and address to receive the Billing Information Service output. When interrogation is ordered, the customer shall identify the data processing terminals authorized to receive the information and the authorized individual who will be responsible for all terminal activities.

(C) The customer shall take every effort to make sure that Billing Information Service output and interrogation capability is provided only to authorized personnel. The customer shall agree, in writing to the Telephone Company, that the customer will not provide the Billing Information Service outputs to third parties for any use by such third parties except for work for the customer and which is under complete control of the customer.

8. Billing and Collection Services (Cont'd)

8.4 Billing Information Service (Cont'd)

8.4.4 Obligations of the Customer (Cont'd)

- (D) The customer shall furnish, to the Telephone Company, when interrogation service is ordered all information necessary to allow the Telephone Company to establish an interrogation program. In addition, the customer shall furnish the Telephone Company, for each data base and file where the interrogation is ordered, an estimate of the number of requests per business day that the Telephone Company data bases and file will be asked to handle. The customer's terminals used to interrogate the Telephone Company data bases and files must be capable of working with Telephone Company equipment and software.
- (E) The customer shall be responsible for all contacts and inquiries from its end user concerning Billing Information Service.
- (F) The customer shall not publicize or represent to others that the Telephone Company jointly participates with the customer in the development of the customers end user records, accounts, data bases or market data, records, files and data bases or other systems it assembles through the use of Billing Information Service.

8.4.5 Payment Arrangements

(A) Minimum Periods and Minimum Monthly Charges

The minimum period for which Billing Information Service CRIS file interrogation is provided and for which charges apply is one year.

When the customer discontinues the service prior to the end of the one-year minimum period, a monthly charge for the data base interrogation will apply for each remaining month and fraction of month. The monthly charge will be the average charge of the most recent three months.

8. Billing and Collection Services (Cont'd)

8.4 Billing Information Service (Cont'd)

8.4.5 Payment Arrangements (Cont'd)

(B) Cancellation of a Special Order

A customer may cancel a Special Order for Billing Information Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the Special Order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. The service date for a Billing Information Service is the date the Telephone Company notifies the customer that the Telephone Company is ready to provide Billing Information Service reports or receive interrogation requests.

When a customer cancels a Special Order for Billing Information Service after the order date but prior to the start of service, charges as listed following shall apply:

- (1) For any service, the appropriate per hour rate for all hours expended by the Telephone Company to provide the service.
- (2) For any service, any expense for equipment obtained for the service where such equipment cannot be reused within six months.

(C) Changes to Special Orders

When a customer requests changes for a pending Special Order for Billing Information Service, they will be undertaken if they can be accommodated by the Telephone Company. Any additional time required on the part of Telephone Company personnel will be billed to the customer at the appropriate hourly charges.

8.4.6 Rate Regulations

- (A) The number and type of records for which charges apply as set forth in 8.4.7 following will be accumulated by the Telephone Company and the Telephone Company will bill the customer in accordance with these accumulations. A record is a logical grouping of information as described in the programs that process the information, print the paper output, and load the magnetic tape or data file used to supply the detail which is data-transmitted or put on fiche. For each service and type

8. Billing and Collection Services (Cont'd)

8.4 Billing Information Service (Cont'd)

8.4.6 Rate Regulations (Cont'd)

(A) (Cont'd)

of output ordered, the number of records processed by the Telephone Company to prepare the output will be used to determine the charges. The number of records processed will be determined using the number of records input to or the number of records output from the programs that process the information, print the paper output and load the magnetic tape or data file, whichever number of records is higher.

(B) The number of hours and fraction thereof for which charges apply as set forth in 8.4.7 following will be accumulated by the Telephone Company. The per hour rate is for the use of one hour of one Telephone Company programmer. The Telephone Company will bill the customer for hourly charges in accordance with these accumulations. The accumulated hours for each order will be summed and rounded to the nearest hour, except when the total is less than one hour, one hour will be used to determine the charges.

(C) When records are entered on a data file or magnetic tape in order to provide information to a customer, the per tape charge applies for each data file or tape prepared. In addition, the per record charge applies for each record entered on the data file or tape. The Telephone Company will determine the charges based on the number of data files or tapes prepared and on its count of the records entered on the data file or tape.

8. Billing and Collection Services (Cont'd)

8.4 Billing Information Service (Cont'd)

8.4.7 Rates and Charges

The rates and charges are:

	USOC	Rates			
		Message Detail	Account Detail	Service and Equipment Detail	Detail on Tape
(A) CRIS 10 Working Day Information Service, - Paper output, per record processed	1FSC+	ICB rates and charges apply.	ICB rates and charges apply.	ICB rates and charges apply.	
- Magnetic tape, per record processed per tape or data file		ICB rates and charges apply.	ICB rates and charges apply.	ICB rates and charges apply.	\$50.00
- Fiche output, per record processed		ICB rates and charges apply.	ICB rates and charges apply.	ICB rates and charges apply.	
(B) CRIS File interrogation - per request received	1FS+1	ICB rates and charges apply.	ICB rates and charges apply.	ICB rates and charges apply.	

8. Billing and Collection Services (Cont'd)

8.4 Billing Information Service (Cont'd)

8.4.7 Rates and Charges (Cont'd)

	<u>FID</u>	<u>USOC</u>	<u>Rates</u>
(C) Program Development charge, - Basic, per hour (applicable to work performed within the Telephone Company's normal work schedule and using the normal work force)			\$ 80.00
- Premium, per hour (applicable to work performed outside the Telephone Company's normal work schedule and/or which requires additions to the work force)			\$100.00
(D) Data transmission to a customer location of Billing Information Service details, - per record transmitted	DRU++		ICB rates and charges apply.
(E) Updating of customer data bases or files - per record transmitted	BAG++		ICB rates and charges apply.

Northwestern Bell
Telephone Company
State of North Dakota
Issued: November 15, 1985

ACCESS
SERVICE TARIFF

Section 9
Original Sheet 1
Effective: January 1, 1986

9. Directory Assistance Services

This service is not available from this intrastate access tariff. Directory Assistance services may be purchased through Northwestern Bell Telephone Company Tariff F.C.C. No. 52.

10. Special Federal Government Access Services (Cont'd)

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.3 Rates and Charges

(A) Voice Grade Special Access Service

The provision of T-3 and G conditioned services contemplates station and tandem switching operations, using customer provided equipment, as well as Special Access Service. Separate narrowband or voice grade services, where required by the customer provided equipment or switching operation, are furnished in accordance with the applicable sections of this tariff.

<u>Voice Grade Secure Communications</u>	<u>Monthly Nonrecurring Termination</u>
	<u>USOC</u> <u>Rates</u> <u>Charges</u> <u>Charges</u>
Type I, each T-3 Conditioning,	GCA++ ICB rates and charges apply
Additional Conditioning, per service termination	GTO++ ICB rates and charges apply
Type II, each G-1 Conditioning,	GCB++ ICB rates and charges apply
Type III, each G-2 Conditioning,	GCC++ ICB rates and charges apply
Additional Conditioning, per service termination	G20++ ICB rates and charges apply

10. Special Federal Government Access Services (Cont'd)

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.3 Rates and Charges (Cont'd)

(A) Voice Grade Special Access Service (Cont'd)

<u>Voice Grade Secure Communications</u>	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Termination Charges</u>
Type IV, each G-3 Conditioning,	GCD++	ICB rates and charges apply		
Additional Conditioning, per service termination	G30++	ICB rates and charges apply		

(B) Wideband Digital Special Access Service

<u>Wideband Secure Communications</u>	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Termination Charges</u>
Type I, each	GW1++	ICB rates and charges apply		
Type II, each	GW2++	ICB rates and charges apply		
Type III, each	GW3++	ICB rates and charges apply		

(C) Move Charges

- (1) When service without a maximum termination liability charge associated with it, as set forth in (A) and (B) preceding, is moved to a different building, the nonrecurring charge applies; when moved to a new location in the same building, a charge of one-half the nonrecurring charge applies.

10. Special Federal Government Access Services (Cont'd)

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.3 Rates and Charges (Cont'd)

(C) Move Charges (Cont'd)

(2) When service with a maximum termination liability charge associated with it, as set forth in (A) and (B) preceding, is moved and is reinstalled at a new location, the customer may elect:

- to pay the unexpired portion of the maximum termination liability charge for the service, if any, with the application of a nonrecurring charge and the establishment of a new maximum termination liability charge for such service at the new location, or
- to continue service subject to the unexpired portion of the maximum termination liability charge, if any, and pay the estimated costs of moving such service, provided that the customer requests these charges be quoted prior to ordering the service move. Charges for moving such service will be based on estimated costs attributable to the move.

Move charges include the estimated costs of removal, restoration of services or facilities necessitated by the move, transportation, storage, reinstallation, engineering, labor, supervision, materials, administration, and any other specific items of cost directly attributable to the move.

10. Special Federal Government Access Services

10.1 General

This section covers Special Access Services that are provided to a customer for use only by agencies or branches of the Federal Government and other users authorized by the Federal Government in the state of North Dakota. These services provide for command and control communications, including communications for national security, emergency preparedness and presidential requirements. They are required to assure continuity of Government in emergency and crisis situations and to provide for national security.

Services for command and control communications and for national security and emergency preparedness sometimes require short notice and short duration service provisions. These provisions are especially needed to meet presidential requirements or in response to natural, man-made, or declared emergencies. Requirements of this type cannot be forecasted and are usually needed for a relatively short period. The provision of service under these conditions may require the availability of facilities, such as portable microwave equipment, which are provided on a temporary basis by the Telephone Company or customer.

10.2 Emergency Conditions

These services will be provided on the date requested or as soon as possible thereafter when the emergency falls into one of the following categories:

- State of crisis declared by the National Command Authorities (includes commitments made to the National Communications System in the "National Plan for Emergencies and Major Disasters").
- Efforts to protect endangered U.S. personnel or property both in the U.S. and abroad. (Includes space vehicle recovery and protection efforts.)
- Communications requirements resulting from hostile action, a major disaster or a major civil disturbance.
- The director (Cabinet level) of a Federal department, Commander of a Unified/Specified Command, or head of a military department has certified that a communications requirement is so critical to the protection of life and property or to the National Defense that it must be processed immediately.
- Political unrest in foreign countries which affect the national interest.
- Presidential service.

10. Special Federal Government Access Services (Cont'd)

10.3 Intervals to Provide Service

Services provided under the provisions of this section of the tariff are provided on an individual case basis. Therefore, orders for such service shall be placed under the Negotiated Interval provisions set forth in 5.2.1(B) preceding.

10.4 Safeguarding of Service

10.4.1 Facility Availability

In order to insure communications during periods of emergency, the Telephone Company will, within the limits of good management, make available the necessary facilities to restore service in the event of damage or to provide temporary emergency service.

In order to meet the requirements of agencies or branches of the Federal Government, the Telephone Company may utilize government-owned facilities, when necessary to provide service.

10.5 Federal Government Regulations

In accordance with Federal Government Regulations, all service provided to the Federal Government will be billed in arrears. However, this provision does not apply to other customers that obtain services under the provisions of this tariff to provide their services to the Federal Government.

10.6 Service Offerings to the Federal Government

The following unique services are provided to a customer for use only by agencies or branches of the Federal Government, other authorized users and state emergency operations centers. The rates and charges for these services shall be developed on an individual case basis and shall be consistent with the rates and charges for services offered in other sections of this tariff.

10. Special Federal Government Access Services (Cont'd)

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.1 Type and Description

(A) Voice Grade Special Access Services

(1) Voice Grade Secure Communications Type I

Approximate bandwidth of 10-50,000 Hertz. Furnished for two-point secure communications on two-wire or four-wire metallic facilities between an IC premises and an end user's premises. Services are conditioned as follows:

T-3 Conditioning - The absolute loss (referenced to 1 milliwatt) with respect to frequency shall not exceed:

15 dB at 10 Hz
13 dB at 100 Hz
9 dB at 1,000 Hz
20 dB at 10,000 Hz
30 dB at 50,000 Hz

Additional conditioning (available in one or two directions on four-wire facilities only) to provide the following characteristics:

The absolute loss (referenced to one milliwatt) with respect to frequency shall not exceed:

0 dB at 1,000 Hz
+ 1 dB between 1,000 Hz and 40,000 Hz
+ 2 dB between 10 Hz and 50,000 Hz
(+ means more loss)

The net loss of the conditioned service (with or without additional conditioning) shall not vary by more than four dB at 1,000 Hz from the levels specified above. Voice frequency signaling or supervisory tones can be transmitted.

10. Special Federal Government Access Services (Cont'd)

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(2) Voice Grade Secure Communications Type II

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between an IC premises on an end user's premises and an end user's premises. Services are conditioned as follows:

G-1 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same as Voice Grade Secure Communications Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(3) Voice Grade Secure Communications Type III

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between an IC premises switch and an end user's premises. Services are conditioned as follows:

G-2 Conditioning - The absolute loss with respect to frequency and the net loss variation from the switch to an end user's premises shall be the same as Voice Grade Secure Communications Type I services without additional conditioning; from an end user's premises to the switch shall be the same as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(4) Voice Grade Secure Communications Type IV

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between two IC premises switches. Services are conditioned as follows:

10. Special Federal Government Access Services (Cont'd)

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(4) (Cont'd)

G-3 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same in both directions of transmission as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(B) Wideband Digital Special Access Service

Service arrangements for secured communications to accommodate the transmission of binary digital baseband signals in a random polar format.

(1) Wideband Secure Communications Type I

For transmission at the rate of 18,750 bits per second.

(2) Wideband Secure Communications Type II

For transmission at the rate of 50,000 bits per second.

(3) Wideband Secure Communications Type III

To accommodate the transmission of restored polar two-level facsimile signals with a minimum signal element width of twenty microseconds at a rate of 50,000 bits per second.

To accommodate the transmission of binary digital baseband signals in a random polar format at the rate of 50,000 bits per second.

10.6.2 Mileage Application

Mileage, when used for rate application between two customer designated premises, shall be determined by the V and H Coordinates Method as set forth in EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 2 for WIRE CENTER INFORMATION (V and H coordinates) and administered as set forth in 7.4.5 preceding.

11. Special Facilities Routing of Access Services

11.1 Description of Special Facilities Routing of Access Services

The services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Special Facilities Routing is involved when, in order to comply with requirements specified by the customer, the Telephone Company provides Switched Access Service or Special Access Service in a manner which includes one or more of the following conditions:

11.1.1 Diversity

Two or more services must be provided over not more than two different physical routes.

11.1.2 Avoidance

A service must be provided on a route which avoids specified geographical locations.

11.1.3 Cable-Only Facilities

Certain Voice Grade services are provided on Cable-Only Facilities to meet the particular needs of a customer.

Service is provided subject to the availability of Cable-Only Facilities. In the event of service failure, restoration will be made through the use of any available facilities as selected by the Telephone Company.

Avoidance and Diversity are available on Switched Access Service as set forth in 6. preceding; Metallic, Telephone Grade, Voice Grade and Wideband Analog Special Access Services as set forth in 7. preceding. Cable-Only Facilities are available for Switched Access Service as set forth in 6. preceding; Voice Grade Special Access Services as set forth in 7. preceding and Special Federal Government Access Services as set forth in 10. preceding.

In order to avoid the compromise of special routing information, the Telephone Company will provide the required routing information for each specially routed service to only the ordering customer. If requested by the customer, this information will be provided when service is installed and prior to any subsequent changes in routing.

The offering of Special Facilities Routing of Access Services contemplates the use of existing facilities. Should facilities not be available, it may be necessary to construct such facilities, either as (1) normal or (2) Special Construction. If Special

11. Special Facilities Routing of Access Services (Cont'd)

11.1.3 Cable-Only Facilities (Cont'd)

Construction is involved, the regulations, as set in the NORTHWESTERN BELL TELEPHONE COMPANY'S SPECIAL CONSTRUCTION TARIFF F.C.C. NO. 51 apply. However, the applicable rates and charges shall be filed in this section of this tariff, not the Special Construction tariff. In either case of (1) or (2) preceding, the rates and charges for administration and any other specific items of cost directly attributable to the provision of this service shall be filed in this section also.

The rates and charges for Special Facilities Routing of Access Services as set forth in 11.2 following are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

11.2 Rates and Charges for Special Facilities Routing of Access Service

The rates and charges for Special Facilities Routing of Access Services are as follows:

11.2.1 Diversity

For each service provided in accordance with 11.1.1 preceding, the rates and charges will be developed on an individual case basis and filed following:

USOC

SYD++

11.2.2 Avoidance

For each service provided in accordance with 11.1.2 preceding, the rates and charges will be developed on an individual case basis and filed following:

USOC

SYA++

11.2.3 Diversity and Avoidance Combined

For each service provided in accordance with 11.1.1 and 11.1.2 preceding, combined, the rates and charges will be developed on an individual case basis and filed following:

USOC

SYB++

11. Special Facilities Routing of Access Services (Cont'd)

11.2 Rates and Charges for Special Facilities Routing of Access Service
(Cont'd)

11.2.4 Cable-Only Facilities

For each service provided in accordance with 11.1.3 preceding,
the rates and charges will be developed on an individual case
basis and filed following:

USOC

SYC++

12. Specialized Service Or Arrangements

12.1 General

Specialized Service or Arrangements may be provided by the Telephone Company, at the request of a customer, on an individual case basis if such service or arrangements meet the following criteria:

- (A) The requested service or arrangements are not offered under other sections of this tariff.
- (B) The facilities utilized to provide the requested service or arrangements are of a type normally used by the Telephone Company in furnishing its other services.
- (C) The requested service or arrangements are provided within a LATA.
- (D) The requested service or arrangements are compatible with other Telephone Company services, facilities, and its engineering and maintenance practices.
- (E) This offering is subject to the availability of the necessary Telephone Company personnel and capital resources.

12.2 Move Charges

- (A) When service without a maximum termination liability charge associated with it is moved to a different building, the nonrecurring charge applies; when moved to a new location in the same building, a charge of one-half the nonrecurring charge applies.
- (B) When service with a maximum termination liability charge associated with it is moved and is reinstalled at a new location, the customer may elect:
 - to pay the unexpired portion of the maximum termination liability charge for the service, if any, with the application of a nonrecurring charge and the establishment of a new maximum termination liability charge for such service at the new location, or
 - to continue service subject to the unexpired portion of the maximum termination liability charge, if any, and pay the estimated costs of moving such service, provided that the customer requests these charges be quoted prior to ordering the service move. Charges for moving such service will be based on estimated costs attributable to the move.

12. Specialized Service Or Arrangements (Cont'd)

12.2 Move Charges (Cont'd)

Move charges include the estimated costs of removal, restoration of services or facilities necessitated by the move, transportation, storage, reinstallation, engineering, labor, supervision, materials, administration, and any other specific items of cost directly attributable to the move.

12.3 Rates and Charges

Rates and Charges, and additional regulations if applicable, for specialized service or arrangements provided on an individual case basis are filed following:

13. Additional Engineering, Additional Labor and Miscellaneous Services

In this section, normally scheduled working hours are an employee's scheduled work period in any given calendar day (e.g., 7:00 a.m. to 4:00 p.m.) for the application of rates based on working hours.

13.1 Additional Engineering for the State of North Dakota

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 6.1.4 and 7. 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 7. preceding.

The Telephone Company will notify the customer that additional engineering charges, as set forth in 13.1.1 following, will apply before any additional engineering is undertaken.

13.1.1 Charges For Additional Engineering

The charges for additional engineering are as follows:

<u>Additional Engineering Periods</u>	<u>USOC</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
(A) Basic Time, normally scheduled working hours, per engineer	AEH	\$39.64	\$39.64
(B) Overtime, outside of normally scheduled working hours, per engineer	AEH	45.98	45.98

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.2 Additional Labor for the State of North Dakota

Additional labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in 13.2.1 through 13.2.5 following. The Telephone Company will notify the customer that additional labor charges as set forth in 13.2.6 following will apply before any additional labor is undertaken.

13.2.1 Overtime Installation

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

13.2.2 Overtime Repair

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

13.2.3 Stand by

Stand by includes all time in excess of one-half (1/2) hour during which Telephone Company personnel stand by to make cooperative tests with a customer to verify facility repair on a given service.

13.2.4 Testing and Maintenance with Other Telephone Companies

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

13.2.5 Other Labor

Other labor is that additional labor not included in 13.2.1 through 13.2.4 preceding labor incurred to accommodate a specific customer request that involves only labor which is not covered by any other section of this tariff.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.2 Additional Labor (Cont'd)

13.2.6 Charges for Additional Labor

The charges for additional labor are as follows:

<u>Additional Labor Periods</u>	<u>USOC</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
(A) Installation or Repair			
- Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician	ALH	\$32.00*	\$32.00*
- Premium Time, outside of scheduled work day, per technician	ALH	37.79*	37.79*
(B) Stand by			
- Basic time, normally scheduled working hours, per technician	ALT	None	25.19
- Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician	ALT	None	31.38*

*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 three hours.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.2 Additional Labor (Cont'd)

13.2.6 Charges for Additional Labor (Cont'd)

The charges for additional labor are as follows:

<u>Additional Labor Periods</u>	<u>USOC</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
(B) Stand by (Cont'd)			
- Premium Time, outside of scheduled work day, per technician	ALT	None	\$32.56*
(C) Testing and Maintenance with other telephone companies, or Other Labor			
- Basic Time, normally scheduled working hours, per technician	ALK	\$64.78	25.19
- Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	ALK	70.96*	31.38*
- Premium Time, outside of scheduled work day, per technician	ALK	77.15*	37.56*

* 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 three hours.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services for the State of North Dakota

13.3.1 Maintenance of Service

- (A) When a customer reports a trouble to the Telephone Company for clearance and no trouble is found in the Telephone Company's facilities, the customer shall be responsible for payment of a Maintenance of Service charge for the period of time from when Telephone Company personnel are dispatched to the customer's premises to when the work is completed. Failure of Telephone Company personnel to find trouble in Telephone Company facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.
- (B) The customer shall be responsible for payment of a Maintenance of Service charge when the Telephone Company dispatches personnel to the customer's premises, and the trouble is in equipment or communications systems provided by other than the Telephone Company or in detariffed CPE provided by the Telephone Company. In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service Charge applies.
- (C) The charges for Maintenance of Service are as follows:

<u>Maintenance of Service Periods</u>	<u>USOC</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Basic Time, normally scheduled working hours, per technician	MVV	\$64.78	\$25.19
Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	MVV	70.96*	31.38*

* 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 three hours.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

(C) The charges for Maintenance of Service (Cont'd)

<u>Maintenance of Service Periods</u>	<u>USOC</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Premium Time, outside of scheduled work day, per technician	MVV	77.15*	37.56*

* 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 three hours.

13.3.2 Restoration Priority

The Telephone Company will arrange a Special Access Service for Restoration Priority on receipt of certification in conformance with Part 64, Subpart D, Appendix A of the Federal Communications Commission's Rules and Regulations. A charge applies when a request to provide or change a Restoration Priority is received subsequent to the issuance of an Access Order to install the service. No charge applies when a Restoration Priority is discontinued.

	<u>Nonrecurring Charge</u>
Restoration priority, per service arranged	\$33.26

13.3.3 Presubscription

(A) General Description

Presubscription is an arrangement whereby a customer may select and designate to the Telephone Company an IC to access, without dialing an access code, for interlata intrastate calls. This IC is referred to as the customer's predesignated IC.

(B) Regulations, Rates and Charges

Regulations, Rates and Charges for Presubscription are the same as those set forth in Section 13.6.3 of the Northwestern Bell Telephone Co. Tariff F.C.C. No. 52.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.4 Standard Jacks - Registration Program

Standard jacks are provided by the Telephone Company to connect Registered Equipment to those services that are subject to the Registration Program as set forth in 2.5 preceding. The use of jacks is covered in Part 68 of the F.C.C.'s Rules and Regulations. Specific jacks are described in the document on file with the FCC entitled "Descriptions of Standard Registration Program Connection Configurations Supplementing Configurations Described in Subpart F of Part 68 of the FCC's Rules and Regulations."

These jacks are used to terminate services provided by the Telephone Company. Other services or facilities provided by the Telephone Company or by others may also be terminated in any spare capacity of the jacks remaining after installation without additional charge for the use of such capacity.

The nonrecurring charges, which include installation, for standard jacks and their typical uses are set forth following:

	<u>USOC</u>	<u>Nonrecurring Charges</u>
(A) <u>Standard Voice Jacks</u>		
(1) Miniature six-position jacks for connection of terminal equipment as follows:		
(a) Single line telephone set surface or flush mounted.	RJ11C	\$ 7.80
(b) Single line telephone sets wall mounted.	RJ11W	7.80
(c) Two-line nonkey telephone sets surface or flush mounted.	RJ14C	7.80
(d) Single-line bridged 4-wire exchange 2/RT, T1/R1.	RJ1DC	7.80

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.4 Standard Jacks - Registration Program (Cont'd)

(A) Standard Voice Jacks (Cont'd)

(1)	(Cont'd)	<u>USOC</u>	<u>Nonrecurring Charges</u>
(e)	Two-line nonkey telephone sets wall mounted.	RJ14W	\$ 7.80
(f)	Special single line equipment for use in hospital critical care areas.	RJ17C	7.80
(g)	9DB single line data equipment with mode indication and mode indication common leads. This jack is normally used in association with a series jack.	RJ16X	7.80
(h)	Three-line non-key telephone sets and ancillary devices.	RJ25C	7.80
(2)	50 Position Miniature Ribbon for connection of multiline terminating equipment and channel derivation devices as follows:		
(a)	For connection to 2-wire tie trunks E&M type I signaling. (12 line capacity)	RJ2EX	93.94

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.4 Standard Jacks - Registration Program (Cont'd)

(A) Standard Voice Jacks (Cont'd)

(2)	(Cont'd)	<u>USOC</u>	<u>Nonrecurring Charges</u>
(b)	For connection to 4-wire tie trunks E&M type I signaling. (8 line capacity)	RJ2GX	\$ 93.94
(c)	For connection to 2-wire tie trunks E&M type II signaling. (8 line capacity)	RJ2FX	93.94
(d)	For connection to 4-wire tie trunks E&M type II signaling. (6 line capacity)	RJ2HX	93.94
(e)	For connection to off-premises station lines. (25 line capacity)	RJ21X	93.94
(f)	For use with series devices such as toll restrictors. (12 line capacity)	RJ71C	144.01
(g)	For connection of up to 12 line bridged 4-wire exchange 2/RT, T1/R1.	RJ2DX	93.94

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.4 Standard Jacks - Registration Program (Cont'd)

(A) Standard Voice Jacks (Cont'd)

	<u>USOC</u>	<u>Nonrecurring Charges</u>
(3) Series Jacks for connection of terminal equipment as follows:		
(a) Single line alarm reporting devices.	RJ31X	\$ 23.10
(b) Series ancillary devices such as automatic dialers. Single line sets with exclusion.	RJ32X	23.10
(c) Two line telephone sets with exclusion on one line.	RJ37X	23.10
(4) Weatherproof Jack for use with single line telephone sets used at locations such as boats and marinas.	RJ15C	56.24

(B) Standard Data Jacks

(1) Universal Data Jack for use in connecting fixed loss loop (FLL) and programmed (P) types of data equipment. (1 line capacity)	RJ41S	53.39
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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.4 Standard Jacks - Registration Program (Cont'd)

(B) Standard Data Jacks (Cont'd)

	<u>USOC</u>	<u>Nonrecurring Charges</u>
(2) Programmed Data Jack for use in connecting programmed data equipment. (1 line capacity)	RJ45S	\$ 45.53
(3) Multiple Line Universal Data Jack for use in connecting fixed loss loop (FLL) and programmed (P) types of data equipment. This jack will terminate up to eight lines. The selection of this jack requires the use of the equipment listed following.	RJ26X	185.53
(a) Multiple Line Universal Data Jack Circuit Cards. For use with RJ26X. One circuit card per circuit required.	RJ26S	33.56
(b) Multiple Line Universal Data Jack Mounting options. For use with RJ26X. One required per RJ26X.		
- Wall Mounting with cover.	RJM3X	40.66
- Rack Mounting (19 inch or 23 inch)	RJM4X	36.71

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services

Testing Services offered under this section of the tariff are optional and subject to rates and charges as set forth in 13.3.5(C) following. Other testing services provided by the Telephone Company in association with Access Services are furnished at no additional charge. These other testing services are described in 6.1.6 and 7.1.7 preceding.

Testing services are normally provided by Telephone Company personnel at Telephone Company locations. However, provisions are made in (A)(5) and (B)(1) and (2) following for a customer to request Telephone Company personnel to perform testing services at the customer's premises.

The offering of Testing Services under this section of the tariff is made subject to the availability of the necessary qualified personnel and test equipment at the various test locations mentioned in (A), (B) and (C) following:

(A) Switched Access Service

Testing Services for Switched Access are comprised of (a) tests which are performed during the installation of a Switched Access Service, and (b) tests which are performed after acceptance of such access services by a customer, i.e., in-service tests. These in-service tests may be further divided into two broad categories of tests: scheduled and nonscheduled.

Scheduled tests are those tests performed by the Telephone Company on a regular basis, e.g., monthly, which result in the measurement of Switched Access Service. Scheduled tests may be done on an automatic basis (no Telephone Company or customer technicians involved), on a cooperative basis (Telephone Company technician(s) involved at Telephone Company office(s) and customer technician(s) involved at customer's premises, or a manual basis (Telephone Company technician(s) involved at Telephone Company office(s) and at customer's premises).

Nonscheduled tests are performed by the Telephone Company "on demand", which result in the measurement of Switched Access Services. Nonscheduled tests may involve Telephone Company technicians at Telephone Company offices and at the customer's premises.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(1) Additional Cooperative Acceptance Testing

Additional Cooperative Acceptance Testing (ACAT) of Switched Access Service involves the Telephone Company provision of a technician at its office(s) and the customer provides a technician at its premises, with suitable test equipment to perform the required tests.

Additional Cooperative Acceptance Tests may, for example, consist of the following tests:

- . Impulse Noise
- . Phase Jitter
- . Signal to C-Notched Noise Ratio
- . Intermodulation (Nonlinear) Distortion
- . Frequency Shift (Offset)
- . Envelope Delay Distortion
- . Dial Pulse Percent Break

(2) Automatic Scheduled Testing

Automatic Scheduled Testing (AST) of Switched Access Services (Feature Groups B, C, and D), where the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent, will consist of monthly loss and C-message noise tests and annual balance test. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance tests, the customer may also order, at additional charges, gain-slope and C-notched noise testing.

The Telephone Company will provide a monthly AST report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(3) Cooperative Scheduled Testing

Cooperative Scheduled Testing (CST) of Switched Access Services (Feature Groups B, C, and D and Directory Access Service not routed through an access tandem), where the Telephone Company provides a technician at its office(s) and the customer provides a technician at its premises, with suitable test equipment to perform the required tests, will consist of quarterly loss and C-message noise tests, and annual balance tests. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance measurements, the customer may also order, at additional charges, gain-slope and C-notched noise testing.

The Telephone Company will provide, on a quarterly basis, a CST report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

(4) Manual Scheduled Testing

Manual Scheduled Testing (MST) of Switched Access Services (Feature Groups B, D and Directory Access Service not routed through an access tandem), where the Telephone Company provides a technician at its office(s) and at the customer's premises, will consist of quarterly loss and C-message noise tests, and annual balance tests. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance tests, the customer may also order, at additional charges, gain-slope and C-notched noise testing.

The Telephone Company will provide, on a quarterly basis, an MST report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(5) Nonscheduled Testing

Nonscheduled Testing (NST) of Switched Access Services is where:

- the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent ("automatic testing"), or
- the Telephone Company provides a technician at its office(s) and the customer provides a technician at its premises, with suitable test equipment to perform the required tests ("cooperative testing"), or
- the Telephone Company provides a technician at its office(s), and/or at the customer's premises with suitable test equipment to perform the required tests ("manual testing").

Nonscheduled Tests may consist of any tests, e.g., loss, noise, slope, envelope delay, which the customer may require.

(6) Obligations of the Customer

- (A) The customer shall provide the Remote Office Test Line priming data to the Telephone Company, as appropriate, to support AST as set forth in 13.3.4(A)(2) preceding or NST as set forth in 13.3.4(A)(5) preceding.
- (B) The customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(B) Special Access Service

The Telephone Company will, at the request of a customer, provide assistance in performing specific tests requested by the customer.

(1) Additional Cooperative Acceptance Testing (ACAT)

When a customer provides a technician at its premises or at an end user's premises, with suitable test equipment to perform the requested tests, the Telephone Company will provide a technician at its office for the purpose of conducting Additional Cooperative Acceptance Testing on Voice Grade Services. At the customer's request, the Telephone Company will provide a technician at the customer's premises or at the end user premises. These tests may, e.g., consist of the following:

- VG1 through VG5: Attenuation Distortion, C-Message Noise and Echo Control.
- VG6 through VG12: Attenuation Distortion, C-Message Noise, Echo Control, Impulse Noise, Phase Jitter, Intermodulation Distortion, Envelope Delay Distortion and Frequency Shift.

(2) Nonscheduled Testing (NST)

When a customer provides a technician at its premises, with suitable test equipment to perform the required tests, the Telephone Company will provide a technician at its office for the purpose of conducting Nonscheduled Testing. At the customer's request, the Telephone Company will provide a technician at customer's premises. Nonscheduled tests may consist of any tests, e.g., loss, noise, slope, envelope delay, which the customer may require.

13. Additional Engineering, Additional Labor and Miscellaneous Services
 (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(B) Special Access Service (Cont'd)

(3) Obligation of the Customer

When the customer subscribes to Testing Service as set forth in this section, the customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

(C) Rates and Charges

(1) Switched Access

(a) Additional Cooperative Acceptance Testing

<u>Testing Periods</u>	<u>USOC</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Basic Time, normally scheduled working hours, per technician	UBCX+	\$64.78	\$25.19
Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	UBCX+	70.96*	31.38*
Premium Time, outside of scheduled work day, per technician	UBCX+	77.15*	37.56*

* 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 three hours.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(b) Automatic Scheduled Testing (AST)

The three tests as set forth in (I) following represent the minimum offering, i.e., an order for testing must, at a minimum, consist of twelve 1004 Hz Tests per transmission path, twelve C-Message Noise Tests per transmission path and one Return Loss (Balance) Test per transmission path, per year. The Additional Tests as set forth in (II) following may be ordered by the customer, at additional charges, 60 days prior to the start of the customer prescribed schedule. The customer may also specify a more frequent schedule of tests 60 days prior to the start of the customer prescribe schedule.

<u>To First Point of Switching</u>	<u>USOC</u>	<u>Monthly Rates</u>
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(I) Basic Tests #

1004 Hz Loss Tests performed within a one year period, per test ordered, per transmission path	UBGX+	\$.11
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C-Message Noise Tests performed within a one year period, per test ordered, per transmission path	UBGX+	\$.11
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Return Loss (Balance) Tests performed within a one year period, per test ordered, per transmission path	UBGX+	.04
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Subject to a one year minimum contract period, and annually thereafter.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(b) Automatic Scheduled Testing (AST) (Cont'd)

<u>To First Point of Switching</u>	<u>USOC</u>	<u>Monthly Rates</u>
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(II) Additional Tests

Gain-Slope Tests performed within a one year period, per test ordered, per transmission path	UBGX+	.04
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C-Notched Noise Tests performed within a one year period, per test ordered, per transmission path	UBGX+	.04
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(III) Example

A customer schedules 13 1004 Hz Loss Tests, 13 C-Message Noise Tests and 2 Return Loss Tests on one trunk for a year. The charges will be computed as follows:

13 x .11 =	1.43
+13 x .11 =	1.43
+ 2 x .04 =	<u>.08</u>
	\$2.94 per month, per trunk

Subject to a one year minimum contract period, and annually thereafter.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(c) Cooperative Scheduled Testing (CST)

The three tests as set forth in (I) following represent the minimum offering, i.e., an order for testing must, at a minimum, consist of four 1004 Hz Loss Tests per transmission path, four C-Message Noise Tests per transmission path and one Return Loss (Balance) Tests per transmission path, per year. The Additional Tests as set forth in (II) following may be ordered by the customer, at additional charges, 60 days prior to the start of the customer prescribed schedule. The customer also may specify a more frequent schedule of tests 60 days prior to the start of the customer prescribed schedule.

<u>To First Point of Switching</u>	<u>USOC</u>	<u>Monthly Rates</u>
(I) Basic Tests #		
1004 Hz Loss Tests performed within a one year period, per test ordered, per transmission path	UBSX+	\$.29
C-Message Noise Tests performed within a one year period, per test ordered, per transmission path	UBSX+	\$.29
Return Loss (Balance) Tests performed within a one year period, per test ordered, per transmission path	UBSX+	.11

Subject to a one year minimum contract period, and annually thereafter.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(c) Cooperative Scheduled Testing (CST) (Cont'd)

<u>To First Point of Switching</u>	<u>USOC</u>	<u>Monthly Rates</u>
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(II) Additional Tests

Gain-Slope Tests performed within a one year period, per test ordered, per transmission path	UBSX+	.08
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C-Notched Noise Tests performed within a one year period, per test ordered, per transmission path	UBSX+	.08
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(III) Example

A customer schedules 6 1004 Hz Loss Tests, 6 C-Message Noise Tests and 4 Return Loss Tests on one trunk for a year. The charges will be computed as follows:

6 x .29 =	1.74
+6 x .29 =	1.74
+4 x .11 =	.44
	<u>\$3.92 per month, per trunk</u>

Subject to a one year minimum contract period, and annually thereafter.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(d) Manual Scheduled Testing (MST)

The three tests as set forth in (I) following represent the minimum offering, i.e., an order for testing must, at a minimum, consist of four 1004 Hz Loss Tests per transmission path, four C-Message Noise Tests per transmission path and one Return Loss (Balance) Test per transmission path, per year. The Additional Tests as set forth in (II) following may be ordered by the customer, at additional charges, 60 days prior to the start of the customer prescribed schedule. The customer also may specify a more frequent schedule of tests, 60 days prior to the start of the customer prescribed schedule.

<u>To First Point of Switching</u>	<u>USOC</u>	<u>Monthly Rates</u>
(I) Basic Tests #		
1004 Hz Loss Tests performed within a one year period, per test ordered, per transmission path	UBMX+	\$.54

Subject to a one year minimum contract period, and annually thereafter.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(d) Manual Scheduled Testing (MST) (Cont'd)

<u>To First Point of Switching</u>	<u>USOC</u>	<u>Monthly Rates</u>
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(I) Basic Tests # (Cont'd)

C-Message Noise Tests performed within a one year period, per test ordered, per transmission path	UBMX+	\$.54
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Return Loss (Balance) Tests performed within a one year period, per test ordered, per transmission path	UBMX+	.28
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(II) Additional Tests

Gain-Slope Tests performed within a one year period, per test ordered, per transmission path	UBMX+	.14
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C-Notched Noise Test performed within a one year period, per test ordered, per transmission path	UBMX+	.14
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(III) Example

See (c)(III) preceding.

Subject to a one year minimum contract period, and annually thereafter.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(e) Nonscheduled Testing (NST)

Automatic Testing:

<u>To First Point of Switching</u>	<u>USOC</u>	<u>Nonrecurring Charges</u>
1004 Hz Loss, per test performed	USCX+	\$.38
C-Message Noise, per test performed	USCX+	.38
Return Loss (Balance), per test performed	USCX+	.38
Gain-Slope, per test performed	USCX+	.38
C-Notched Noise, per test performed	USCX+	.38

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(e) Nonscheduled Testing (NST) (Cont'd)

Cooperative Testing:

<u>Testing Periods</u>	<u>USOC</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Basic Time, normally scheduled working hours, per technician	USSX+	\$64.78	\$25.19
Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	USSX+	70.96*	31.38*
Premium Time, outside of scheduled work day, per technician	USSX+	77.15*	37.56*

* 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 three hours.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(e) Nonscheduled Testing (NST) (Cont'd)

Manual Testing:

<u>Testing Periods</u>	<u>USOC</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Basic Time, normally scheduled working hours, per technician	USMX+	\$57.58	\$25.19
Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	USMX+	66.86*	31.38*
Premium Time, outside of scheduled work day, per technician	USMX+	76.15*	37.56*

* 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 three hours.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(2) Special Access

(a) Additional Cooperative Acceptance Testing (ACAT)

<u>Testing Periods</u>	<u>USOC</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Basic Time, normally scheduled working hours, per technician	SNTX+	\$64.78	\$25.19
Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	SNTX+	70.96*	31.38*
Premium Time, outside of scheduled work day, per technician	SNTX+	77.15*	39.56*

* 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 three hours.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.5 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(2) Special Access (Cont'd)

(b) Nonscheduled Testing (NST)

<u>Testing Periods</u>	<u>USOC</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Basic Time, normally scheduled working hours, per technician	SNOX+	\$64.78	\$25.19
Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	SNOX+	70.96*	31.38*
Premium Time, outside of scheduled work day, per technician	SNOX+	77.15*	37.56*

*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 three hours.

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.6 Provision of Access Service Billing Information

- (A) The customer will receive its monthly bills in a standard paper format.
- (B) At the option of the customer, and for an additional charge:
 - (1) Customer monthly bills may be provided on magnetic tape,
 - (2) Billing detail and/or information may be transmitted to the customer premises by data transmission,
 - (3) Additional copies of the customer monthly bill or service and features record may be provided in standard paper or microfiche format.
- (C) Upon acceptance by the Telephone Company of an order for data transmission, the Telephone Company will determine the period of time to implement the transmission of such material on an individual order basis.
- (D) The rates and charges for the provision of Access Service Billing Information are as follows:

	<u>FID</u>	<u>Rates</u>
(1) Provision of Standard Billing Detail and/or Information in magnetic tape format, per record, up to 225 bytes	DMT	\$.02

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.6 Provision of Access Service Billing Information (Cont'd)

(D) Rates and charges for the provision of Access Service
Billing Information are as follows: (Cont'd)

	<u>FID</u>	<u>Rates</u>
(2) Data Transmission to a customer's premises of Billing Detail and/or Information, per record transmitted	BOD DT	ICB Rates and Charges Apply
(3) Additional Copies of the customer's monthly bill or service and features record in standard paper or microfiche format per page per microfiche record	NOB NEL BOD FH	ICB Rates and Charges Apply

13.3.7 Protective Connecting Arrangements

Protective Connecting Arrangements (PCA's) will not be offered in North Dakota. Any Protective Connecting Arrangement in place for intrastate use is grandfathered and any rearrangement change, move or maintenance will be subject to the rules, regulations, and rates as set forth in the North Dakota General Exchange Tariff.