BEK COMMUNICATIONS COOPERATIVE INTRASTATE TARIFFS

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1.) Summary-Historical (Intralata)

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1.) Summary-Historical (Interlata)

a.) Exchange Group 1 (Original Coop. Exchanges) Price Schedule

b.) Exchange Group 2 (Acquired Exchanges) Price Schedule

c.) Terms and Conditions **

***Terms and Conditions for Exchange Group 1 mirrors the Terms and Conditions from the Bek Communications Cooperative Intralata Tariff contained in Section C.1.c of this tariff. For Exchange Group 2 the Terms and Conditions in Section B.1.d. apply.*

BEK COMMUNICATIONS COOPERATIVE INTRASTATE ACCESS TARIFFS SUMMARIZATION

Effective January 1, 2001 Bek Communications Cooperative purchased Bek Communications I, Inc. While Bek Communications I, Inc. previously filed a Switched Access Tariff filed with the Commission, the surviving entity (Bek Communications Cooperative) holds all the rights, privileges, property, powers, duties, obligations, and liabilities of the purchased entities.

Therefore, for administrative ease the Intrastate Intralata and Interlata Tariffs for Bek Communications Cooperative and Bek Communications I, Inc. have been merged and is re-titled as Bek Communications Cooperative.

B.) Bek Communications Cooperative Intrastate Intralata Tariff

SUMMARY-HISTORICAL (Intralata)

For Bek Communications Cooperative the company filed an Intrastate Intralata Switched Access Tariff in compliance with a stipulation in Case No. PU-2096-99-241 that was effective August 25, 1999. This consisted of a price schedule and access rate definition sheet. All other terms and conditions mirror the Intrastate Access Tariff filed by Northwestern Bell in Case No's 10,694 and 10,699 (1986 Tariff).

For Bek Communications I, Inc. the company filed an Intrastate Intralata Switched Access Tariff in compliance with a stipulation in Case No. PU-2096-99-241 that was effective August 23, 1999. This consisted of a price schedule and access rate definition sheet. All other terms and conditions mirror the Intrastate Access Tariff filed by Northwestern Bell in Case No.'s 10,694 and 10,699 (1986 Tariff).

BEK COMMUNICATIONS COOPERATIVE
INTRALATA ACCESS SERVICE
PRICE SCHEDULE
EXCHANGES GROUP 1

State of North Dakota

Exhibit 1
2nd Revised Page 1
Cancels 1st Revised Page 1

Access Rate Sheet

Exchanges:
Hazelton, Kintyre, McKenzie, Pettibone, Regan, Robinson, Sterling, Strasburg, Tappen, Turtle, Wilton, and Wing (N)

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.055032
Terminating	$0.055032

2. Local Transport

	Rate Per Access Minute
Termination	$0.000933

	Rate Per Access Minute Per Mile
Facility	$0.000304

3. End Offices

Switching

	Rate Per Access Minute
LS1	$0.027415
LS2	$0.027415

800 Data Base Service Queries

	Rate Per Query
Basic	.0080
Vertical Feature	.0084

BEK COMMUNICATIONS COOPERATIVE
INTRALATA ACCESS SERVICE
PRICE SCHEDULE

State of North Dakota
Effective 8/23/99

Exhibit 1
1st Revised Page 1
Cancels Original Page 1

Access Rate Sheet

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.055032
Terminating	$0.055032

2. Local Transport

	Rate Per Access Minute
Termination	$0.000933

	Rate Per Access Minute Per Mile
Facility	$0.000304

3. End Offices

Switching

	Rate Per Access Minute
LS1	$0.027415
LS2	$0.027415

800 Data Base Service Queries

	Rate Per Query
Basic	.0080
Vertical Feature	.0084

John Staurulakis
INCORPORATED

Eagandale Corporate Center, Suite 310
1380 Corporate Center Curve, Eagan, Minnesota 55121
phone: 612-452-2660 fax: 612-452-1909

October 6, 1999

Mr. Jon Mielke
Executive Secretary
Public Service Commission
State Capitol
600 East Boulevard Avenue
Bismarck, ND 58505-0480

Dear Mr. Mielke:

On behalf of BEK Communications Cooperative, I am enclosing an original and eight copies of their amended North Dakota Intralata Access Rate for Local Transport Facility. The amended access rate is being filed due to the use of an erroneous billing percentage used in the development of the Local Transport Facility rate. The rate was developed in accordance with the resolution of Case No. PU-418-99-205 to be effective on August 23, 1999.

Included in this package you will find an amended Intrastate Intralata access rate sheet and worksheets identifying the access charge rate development.

If you have any questions concerning this information or would like further information, please call me at (651) 452-2660.

Sincerely,

James E. Howard Jr.

James E. Howard, Jr.
Vice President Business Services
jhoward@jsitel.com

JEH:bw
Enclosure
cc: Jerome Tishmack, BEK Communications Cooperative
JSI, Maryland

DQUARTERS:
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Alpharetta, Georgia 30022
phone: 770-569-2105 fax: 770-410-1608

BEK COMMUNICATIC[illegible]OPERATIVE
SUMMARY DEVELOPMENT OF [illegible]TRASTATE INTRALATA
SWITCHED ACCESS RATE DEVELOPMENT
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

			COMMON LINE	LOCAL SWITCHING	TRANSPORT TERMINATION	TRANSPORT FACILITY	TOTAL
1. Total Revenue Requirement			395,149	173,678	0	110,680	679,507
2. 10% NTS Reduction			39,515				39,515
3. Acces Line Reduction	3,887	Access Lines x .15 x 12 Mo.	6,997				6,997
4. Total Adjusted Revenue Requirement			348,637	173,678	-	110,680	632,995
5. CCL Minutes of Use			6,335,192				
6. CCL Rate		Line 4 Divided by Line 5	0.055032				
7. LS Minutes of Use		Line 5		6,335,192			
8. LS Rate		Line 4 Divided by Line 7		0.027415			
9. Local Transport Termination Rate					0.000933		
10. Local Transport Termination Revenues						5,910	
11. Adj. Transport Revenue Requirement		Line 4 Less Line 10				104,770	
12. BIP Minute Miles						344,547,749	
13. Local Transport Rate		Line 11 Divided by Line 12				0.000304	

0.09992

Bek Communications Cooperative
SUMMARY DEVELOPMENT INTRASTATE INTRALATA
WEIGHTED SWITCHED ACCESS REVENUE REQUIREMENT
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

		Source	COMMON LINE	LOCAL SWITCHING	INFORMATION	TRANSPORT	OTHER	TOTAL
1. Plant in Service		Part 69, Form 1, Ln 18	2,373,567	607,709	0	470,952	27,729	3,479,957
2. Plant Under Construction		Part 69, Form 1, Ln 20	48,720	12,474	0	9,667	569	71,430
3. Net Investment		Part 69, Form 2, Ln 43	1,513,120	387,603	0	291,496	17,398	2,209,617
4. Rate of Return		FCC Authorized	0.1100000	0.1100000	0.1100000	0.1100000	0.1100000	
5. Return		(Line 3 x 4)	166,443	42,636	0	32,065	1,914	243,058
6. AFUDC		Part 69, Form 10, Ln 192	0	0	0	0	0	0
7. Net Return		(Lines 5 - 6)	166,443	42,636	0	32,065	1,914	243,058
8. Fixed Charges		Part 69, Form 10, Ln 199	41,691	10,679	0	8,031	479	60,880
9. Investment Tax Credit		Part 69, Form 10, Ln 191	0	0	0	0	0	0
10. Other FIT Adjustments		Part 69, Form 10, Ln 195	0	0	0	0	0	0
11. Subject to FIT		(Lines 5-8-9-10)	124,752	31,957	0	24,034	1,435	182,178
12. Federal Income Tax @	0.0000%		0	0	0	0	0	0
13. Other SIT Adjustments		Part 69, Form 10, Ln 198	0	0	0	0	0	0
14. Subject to SIT		(Lines 11+12-13)	124,752	31,957	0	24,034	1,435	182,178
15. State Income Tax @	0.0000%		0	0	0	0	0	0
16. Return + FIT + SIT		(Lines 5-9+12+15-6)	166,443	42,636	0	32,065	1,914	243,058
17. Expenses and Taxes		Part 69, Form 10, Ln 208	228,706	131,042	0	78,615	127,650	566,013
18. Subtotal		(Lines 16+17)	395,149	173,678	0	110,680	129,564	809,071
19. Gross Receipts Tax @	0.0000%		0	0	0	0	0	0
20. Subtotal		(Line 18+19)	395,149	173,678	0	110,680	129,564	809,071
21. Psc Fee @	0.0000%		0	0	0	0	0	0
22. Total Revenue Requirement		(Lines16+17+19+21)	395,149	173,678	0	110,680	129,564	809,071

BEK COMMUNICATIONS COOPERATIVE
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
TRANSPORT MINUTES OF USE
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

END OFFICE / REMOTE	7 MONTHS ENDING 7/31/99 SWITCHED MINUTES OF USE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	USWEST	ALL OTHER CARRIERS
Pettibone	106,011	200,336		
Regan	137,376	259,608		
Tappen	353,206	667,476		
Kintyre	269,731	509,728		
Strasburg	531,008	1,003,477		
Sterling	251,852	475,941		
Robinson	109,712	207,330		
McKenzie	195,207	368,895		
Hazelton	523,693	989,656		
Wilton	389,490	736,044		
Tuttle	221,647	418,860		
Wing	263,441	497,841		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
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		0		
		0		
		0		
		0		
*	3,352,374	6,335,192	5,073,439	1,261,753

* from NCDC Form #D32500

BEK COMMUNICATIONS COOPERATIVE
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
TRANSPORT TERMINATION REVENUES
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

END OFFICE / REMOTE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	RATE *	(MOU*RATE) TOTAL TRANSPORT TERMINATION REVENUES
Pettibone	200,336	$0.000933	$187
Regan	259,608	$0.000933	$242
Tappen	667,476	$0.000933	$623
Kintyre	509,728	$0.000933	$476
Strasburg	1,003,477	$0.000933	$936
Sterling	475,941	$0.000933	$444
Robinson	207,330	$0.000933	$193
McKenzie	368,895	$0.000933	$344
Hazelton	989,656	$0.000933	$923
Wilton	736,044	$0.000933	$687
Tuttle	418,860	$0.000933	$391
Wing	497,841	$0.000933	$464
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$5,910

* NECA 7/1/99 rate

BEK COMMUNICATIONS COOPERATIVE
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
BIP/MINUTE/MILE DEVELOPMENT

END OFFICE / REMOTE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	MILES	BIP	(MOU*MI*BP) TOTAL BMM
Pettibone	200,336	64	87%	11,154,708
Regan	259,608	27	87%	6,098,192
Tappen	667,476	54	79%	28,474,526
Kintyre	509,728	44	82%	18,390,986
Strasburg	1,003,477	56	89%	50,013,294
Sterling	475,941	24	81%	9,252,293
Robinson	207,330	53	85%	9,340,217
McKenzie	368,895	16	83%	4,898,926
Hazelton	989,656	34	86%	28,937,541
Wilton	736,044	25	89%	16,376,979
Tuttle	418,860	44	82%	15,112,469
Wing	497,841	33	85%	13,964,440
Bek Inc,1 flow through minutes				-
Linton	1,116,731	42	72.00%	33,769,945
Lehr	106,933	42	72.00%	3,233,654
Zeeland	228,789	42	72.00%	6,918,579
Wishek	814,917	42	72.00%	24,643,090
Steele	1,100,853	42	72.00%	33,289,795
Napoleon	749,338	42	72.00%	22,659,981
Dickey Rural Comm flow through minutes				-
Ashley	243,881	121	19%	5,606,824
Dickey Rural Coop flow through minutes				
Nelvik	35,873	94	26%	876,736
S. Nelvik	384	94	26%	9,385
Venturia	55,918	81	30%	1,358,807
S. Venturia	6,847	81	30%	166,382
				344,547,749

Originally Filed

BEK COMMUNICATIONS COOPERATIVE
INTRALATA ACCESS SERVICE
PRICE SCHEDULE

State of North Dakota
Effective 8/23/99

Access Rate Sheet

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.055032
Terminating	$0.055032

2. Local Transport

	Rate Per Access Minute
Termination	$0.000933

	Rate Per Access Minute Per Mile
Facility	$0.000293 .000304

ISIPS CHANGED

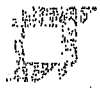
3. End Offices

Switching

	Rate Per Access Minute
LS1	$0.027415
LS2	$0.027415

800 Data Base Service Queries

	Rate Per Query
Basic	.0080
Vertical Feature	.0084



OLSEN THIELEN & CO., LTD.

Certified Public Accountants & Consultants

September 23, 1999

Mr Jon Mielke
Executive Secretary
Public Service Commission
State Capital
600 East Boulevard Avenue
Bismark ND 58505-0480

Enclosed are eight copies of the North Dakota IntraLATA Switched Access Service Tariff for the Rural Telephone Company Group which is being filed pursuant to Item 6 of the stipulated agreement between US West and the Rural Telephone Company Group signed July 14, 1999 in Case No. PU-1540-99-222 to be effective August 23, 1999. Please contact me with any questions concerning this filing at (651) 481-1789.

Sincerely,

John W Coleman
Certified Public Accountant

cc: Jim Howard, JSI 651 452 1909

Associated World-wide with Jeffreys Henry International JHI
223 Little Canada Road, St. Paul, Minnesota 55117-1376 651 483 4521 FAX 651 483 2467
6640 Shady Oak Road Minneapolis, Minnesota 55344-7709 612 941 9242

RURAL TELEPHONE COMPANY GROUP

STATE OF NORTH DAKOTA
EFFECTIVE: AUGUST 23, 1999 SWITCHED ACCESS SERVICE TARIFF

IntraLATA

There are three rate categories which apply to Switched Access Service and include Local Transport, End Office and Common Line.

(A) Local Transport

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

(1) Local Transport Termination

The Local Transport Termination rate element is accessed on a per access minute basis and recovers the portion of costs of circuit equipment.

(2) Local Transport Facility

The Local Transport Facility rate element is accessed on a per mile per access minute basis and recovers the costs of the transmission facilities.

(3) Tandem Switched Transport Facility

The Tandem Switched Transport Facility rate element is accessed on a per mile per access minute with distance measured from the wire center that normally serves the customer designated premises to the end office switch(es), which may be a Remote Switching Module(s).

(B) End Office

The End Office rate category establishes the charges related to 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 and Information Surcharge rate elements..

(1) Local Switching

The Local Switching rate element establishes the charges related to the use of end office switching equipment and the terminations in the end office.

(2) Information Surcharge

Information Surcharge rates are assessed to a customer based on the total number of minutes.

(C) Carrier Common Line

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

John Staurulakis INCORPORATED

Eagandale Corporate Center, Suite 310
1380 Corporate Center Curve, Eagan, Minnesota 55121
phone: 612-452-2660 fax: 612-452-1909

COPY

September 3, 1999

Mr. Jon Mielke
Executive Secretary
Public Service Commission
State Capitol
600 East Boulevard Avenue
Bismarck, ND 58505-0480

Dear Mr. Mielke:

On behalf of BEK Communications Cooperative, I am enclosing an original and eight copies of their revised North Dakota Intralata Access Rates. These revised access rates are being filed in accordance with the resolution of Case No. PU-418-99-205 to be effective on August 23, 1999.

Included in this package you will find an Intrastate Intralata access rate sheet, worksheets identifying the access charge rate development, and a Part 69 cost study based on the current separation rules applicable in North Dakota. We have only included three copies of the Part 69 study based on conversation with Pat Fahn. With this filing, the current Access Adjustment Rate (AAR) should be deleted from BEK Communications Cooperative's Intrastate Tariff (Page 118). As agreed to by Pat Fahn, BEK Communications Cooperative will be filing, within the next two to three weeks, the terms and conditions for their Intrastate Intralata Tariff.

If you have any questions concerning this information or would like further information, please call me at (651) 452-2660.

Sincerely,

James E. Howard, Jr.
Vice President Business Services
jhoward@jsitel.com

JEH:bw
Enclosure
cc: Jerome Tishmack, BEK Communications Cooperative
JSI, Maryland

ADQUARTERS:
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5360 Skidaway Drive
Alpharetta, Georgia 30022
phone: 770-569-2105 fax: 770-410-1608

BEK COMMUNICATIONS COOPERATIVE
INTRALATA ACCESS SERVICE
PRICE SCHEDULE

State of North Dakota
Effective 8/23/99

Access Rate Sheet

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.055032
Terminating	$0.055032

2. Local Transport

	Rate Per Access Minute
Termination	$0.000933

	Rate Per Access Minute Per Mile
Facility	$0.000293

3. End Offices

Switching

	Rate Per Access Minute
LS1	$0.027415
LS2	$0.027415

800 Data Base Service Queries

	Rate Per Query
Basic	.0080
Vertical Feature	.0084

BEK COMMUNICATIC)OPERATIVE
SUMMARY DEVELOPMENT O(.RASTATE INTRALATA
SWITCHED ACCESS RATE DEVELOPMENT
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

			COMMON LINE	LOCAL SWITCHING	TRANSPORT TERMINATION	TRANSPORT FACILITY	TOTAL
1. Total Revenue Requirement			395,149	173,678	0	110,680	679,507
2. 10% NTS Reduction			39,515				39,515
3. Acces Line Reduction	3,887	Access Lines x .15 x 12 Mo.	6,997				6,997
4. Total Adjusted Revenue Requirement			348,637	173,678	-	110,680	632,995
5. CCL Minutes of Use			6,335,192				
6. CCL Rate		Line 4 Divided by Line 5	0.055032				
7. LS Minutes of Use		Line 5		6,335,192			
8. LS Rate		Line 4 Divided by Line 7		0.027415			
9. Local Transport Termination Rate					0.000933		
10. Local Transport Termination Revenues						5,910	
11. Adj. Transport Revenue Requirement		Line 4 Less Line 10				104,770	
12. BIP Minute Miles						357,980,990	
13. Local Transport Rate		Line 11 Divided by Line 12				0.000293	

0.09992

Bek Commur[illegible]s Cooperative
SUMMARY DEVELOPMEN[illegible] INTRASTATE INTRALATA
WEIGHTED SWITCHED ACCESS REVENUE REQUIREMENT
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

		Source	COMMON LINE	LOCAL SWITCHING	INFORMATION	TRANSPORT	OTHER	TOTAL
1. Plant in Service		Part 69, Form 1, Ln 18	2,373,567	607,709	0	470,952	27,729	3,479,957
2. Plant Under Construction		Part 69, Form 1, Ln 20	48,720	12,474	0	9,667	569	71,430
3. Net Investment		Part 69, Form 2, Ln 43	1,513,120	387,603	0	291,496	17,398	2,209,617
4. Rate of Return		FCC Authorized	0.1100000	0.1100000	0.1100000	0.1100000	0.1100000	
5. Return		(Line 3 x 4)	166,443	42,636	0	32,065	1,914	243,058
6. AFUDC		Part 69, Form 10, Ln 192	0	0	0	0	0	0
7. Net Return		(Lines 5 - 6)	166,443	42,636	0	32,065	1,914	243,058
8. Fixed Charges		Part 69, Form 10, Ln 199	41,691	10,679	0	8,031	479	60,880
9. Investment Tax Credit		Part 69, Form 10, Ln 191	0	0	0	0	0	0
10. Other FIT Adjustments		Part 69, Form 10, Ln 195	0	0	0	0	0	0
11. Subject to FIT		(Lines 5-8-9-10)	124,752	31,957	0	24,034	1,435	182,178
12. Federal Income Tax @	0.0000%		0	0	0	0	0	0
13. Other SIT Adjustments		Part 69, Form 10, Ln 198	0	0	0	0	0	0
14. Subject to SIT		(Lines 11+12-13)	124,752	31,957	0	24,034	1,435	182,178
15. State Income Tax @	0.0000%		0	0	0	0	0	0
16. Return + FIT + SIT		(Lines 5-9+12+15-6)	166,443	42,636	0	32,065	1,914	243,058
17. Expenses and Taxes		Part 69, Form 10, Ln 208	228,706	131,042	0	78,615	127,650	566,013
18. Subtotal		(Lines 16+17)	395,149	173,678	0	110,680	129,564	809,071
19. Gross Receipts Tax @	0.0000%		0	0	0	0	0	0
20. Subtotal		(Line 18+19)	395,149	173,678	0	110,680	129,564	809,071
21. Psc Fee @	0.0000%		0	0	0	0	0	0
22. Total Revenue Requirement		(Lines16+17+19+21)	395,149	173,678	0	110,680	129,564	809,071

BEK COMMUNICATIONS COOPERATIVE
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
TRANSPORT MINUTES OF USE
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

END OFFICE / REMOTE	7 MONTHS ENDING 7/31/99 SWITCHED MINUTES OF USE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	USWEST	ALL OTHER CARRIERS
Pettibone	106,011	200,336		
Regan	137,376	259,608		
Tappen	353,206	667,476		
Kintyre	269,731	509,728		
Strasburg	531,008	1,003,477		
Sterling	251,852	475,941		
Robinson	109,712	207,330		
McKenzie	195,207	368,895		
Hazelton	523,693	989,656		
Wilton	389,490	736,044		
Tuttle	221,647	418,860		
Wing	263,441	497,841		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
*	3,352,374	6,335,192	5,073,439	1,261,753

* from NCDC Form #D32500

BEK COMMUNICATIONS COOPERATIVE
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
TRANSPORT TERMINATION REVENUES
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

END OFFICE / REMOTE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	RATE *	(MOU*RATE) TOTAL TRANSPORT TERMINATION REVENUES
Pettibone	200,336	$0.000933	$187
Regan	259,608	$0.000933	$242
Tappen	667,476	$0.000933	$623
Kintyre	509,728	$0.000933	$476
Strasburg	1,003,477	$0.000933	$936
Sterling	475,941	$0.000933	$444
Robinson	207,330	$0.000933	$193
McKenzie	368,895	$0.000933	$344
Hazelton	989,656	$0.000933	$923
Wilton	736,044	$0.000933	$687
Tuttle	418,860	$0.000933	$391
Wing	497,841	$0.000933	$464
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$5,910

* NECA 7/1/99 rate

BEK COMMUNICATIONS COOPERATIVE
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
BIP/MINUTE/MILE DEVELOPMENT

END OFFICE / REMOTE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	MILES	BIP	(MOU*MI*BP) TOTAL BMM
Pettibone	200,336	64	87%	11,154,708
Regan	259,608	27	87%	6,098,192
Tappen	667,476	54	79%	28,474,526
Kintyre	509,728	44	82%	18,390,986
Strasburg	1,003,477	56	89%	50,013,294
Sterling	475,941	24	81%	9,252,293
Robinson	207,330	53	85%	9,340,217
McKenzie	368,895	16	83%	4,898,926
Hazelton	989,656	34	86%	28,937,541
Wilton	736,044	25	89%	16,376,979
Tuttle	418,860	44	82%	15,112,469
Wing	497,841	33	85%	13,964,440
Bek Inc,1 flow through minutes				-
Linton	1,116,731	42	72.00%	33,769,945
Lehr	106,933	42	72.00%	3,233,654
Zeeland	228,789	42	72.00%	6,918,579
Wishek	814,917	42	72.00%	24,643,090
Steele	1,100,853	42	72.00%	33,289,795
Napoleon	749,338	42	72.00%	22,659,981
Dickey Rural Comm flow through minutes				-
Ashley	243,881	121	51%	15,049,897
Dickey Rural Coop flow through minutes				
Nelvik	35,873	94	67%	2,259,282
S. Nelvik	384	94	67%	24,184
Venturia	55,918	81	81%	3,668,780
S. Venturia	6,847	81	81%	449,232
				357,980,990

BEK COMMUNICATIONS COOPERATIVE
INTRALATA ACCESS SERVICE
PRICE SCHEDULE
EXCHANGES GROUP 2

State of North Dakota

Exhibit 1
2nd Revised Page 1
Cancels 1st Revised Page 1

Access Rate Sheet

Exchanges:
Lehr, Linton, Napoleon, Steele, Wishek, and Zeeland (N)

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.042610
Terminating	$0.042610

2. Local Transport

	Rate Per Access Minute
Termination	$0.000933

	Rate Per Access Minute Per Mile
Facility	$0.000608

3. End Offices

Switching

	Rate Per Access Minute
LS1	$0.025335
LS2	$0.025335

800 Data Base Service Queries

	Rate Per Query
Basic	.0080
Vertical Feature	.0084

BEK COMMUNICATIONS I, INC.
INTRALATA ACCESS SERVICE
PRICE SCHEDULE

State of North Dakota
Effective 8/23/99

Exhibit 1
1st Revised Page 1
Cancels Original Page 1

Access Rate Sheet

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.042610
Terminating	$0.042610

2. Local Transport

	Rate Per Access Minute
Termination	$0.000933

	Rate Per Access Minute Per Mile
Facility	$0.000608

3. End Offices

Switching

	Rate Per Access Minute
LS1	$0.025335
LS2	$0.025335

800 Data Base Service Queries

	Rate Per Query
Basic	.0080
Vertical Feature	.0084

John Staurulakis
INCORPORATED

Eagandale Corporate Center, Suite 310
1380 Corporate Center Curve, Eagan, Minnesota 55121
phone: 612-452-2660 fax: 612-452-1909

October 6, 1999

Mr. Jon Mielke
Executive Secretary
Public Service Commission
State Capitol
600 East Boulevard Avenue
Bismarck, ND 58505-0480

Dear Mr. Mielke:

On behalf of BEK Communications I, Inc., I am enclosing an original and eight copies of their amended North Dakota Intralata Access Rates for the Local Transport Facility and Local Transport Termination elements. The Local Transport Facility rate is being amended due to the use of an erroneous billing percentage. The amended Local Transport Termination rate is being adjusted to reflect the proper rate level. The rates were developed in accordance with the resolution of Case No. PU-1680-99-206 to be effective on August 23, 1999.

Included in this package you will find an amended Intrastate Intralata access rate sheet and worksheets identifying the access charge rate development.

If you have any questions concerning this information or would like further information, please call me at (651) 452-2660.

Sincerely,

James E. Howard Jr.

James E. Howard, Jr.
Vice President Business Services
jhoward@jsitel.com

JEH:bw
Enclosure
cc: Jerome Tishmack, BEK Communications Cooperative
JSI, Maryland

Bek Communi[illegible] I Inc.
SUMMARY DEVELOPMENT O[illegible]RASTATE INTRALATA
SWITCHED ACCESS RATE DEVELOPMENT
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

			COMMON LINE	LOCAL SWITCHING	TRANSPORT TERMINATION	TRANSPORT FACILITY	TOTAL
1. Total Revenue Requirement			202,152	104,319	0	86,010	392,481
2. 10% NTS Reduction			20,215				20,215
3. Acces Line Reduction	3,605	Access Lines x .15 x 12 Mo.	6,489				6,489
4. Total Adjusted Revenue Requirement			175,448	104,319	-	86,010	365,777
5. CCL Minutes of Use			4,117,561				
6. CCL Rate		Line 4 Divided by Line 5	0.042610				
7. LS Minutes of Use		Line 5		4,117,561			
8. LS Rate		Line 4 Divided by Line 7		0.025335			
9. Local Transport Termination Rate					0.000933		
10. Local Transport Termination Revenues						3,841	
11. Adj. Transport Revenue Requirement		Line 4 Less Line 10				82,169	
12. BIP Minute Miles						135,199,547	
13. Local Transport Rate		Line 11 Divided by Line 12				0.000608	

0.08883

Bek Comm[illegible]ions I Inc.
SUMMARY DEVELOPMEN[illegible]NTRASTATE INTRALATA
WEIGHTED SWITCHED ACCESS REVENUE REQUIREMENT
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

		Source	COMMON LINE	LOCAL SWITCHING	INFORMATION	TRANSPORT	OTHER	TOTAL
1. Plant in Service		Part 69, Form 1, Ln 18	925,906	221,284	0	277,539	32,034	1,456,763
2. Plant Under Construction		Part 69, Form 1, Ln 20	1,080	258	0	323	37	1,698
3. Net Investment		Part 69, Form 2, Ln 43	604,552	102,780	0	183,397	21,220	911,949
4. Rate of Return		FCC Authorized	0.1100000	0.1100000	0.1100000	0.1100000	0.1100000	
5. Return		(Line 3 x 4)	66,501	11,306	0	20,174	2,334	100,315
6. AFUDC		Part 69, Form 10, Ln 192	0	0	0	0	0	0
7. Net Return		(Lines 5 - 6)	66,501	11,306	0	20,174	2,334	100,315
8. Fixed Charges		Part 69, Form 10, Ln 199	995	169	0	302	35	1,501
9. Investment Tax Credit		Part 69, Form 10, Ln 191	0	0	0	0	0	0
10. Other FIT Adjustments		Part 69, Form 10, Ln 195	0	0	0	0	0	0
11. Subject to FIT		(Lines 5-8-9-10)	65,506	11,137	0	19,872	2,299	98,814
12. Federal Income Tax @	51.5152%		33,746	5,737	0	10,237	1,184	50,904
13. Other SIT Adjustments		Part 69, Form 10, Ln 198	0	0	0	0	0	0
14. Subject to SIT		(Lines 11-13)	65,506	11,137	0	19,872	2,299	98,814
15. State Income Tax @	11.7318%		7,685	1,307	0	2,331	270	11,593
16. Return + FIT + SIT		(Lines 5-9+12+15-6)	107,932	18,350	0	32,742	3,788	162,812
17. Expenses and Taxes		Part 69, Form 10, Ln 208	94,220	85,969	0	53,268	76,192	309,649
18. Subtotal		(Lines 16+17)	202,152	104,319	0	86,010	79,980	472,461
19. Gross Receipts Tax @	0.0000%		0	0	0	0	0	0
20. Subtotal		(Line 18+19)	202,152	104,319	0	86,010	79,980	472,461
21. Psc Fee @	0.0000%		0	0	0	0	0	0
						534,389		
22. Total Revenue Requirement		(Lines16+17+19+21)	202,152	104,319	0	86,010	79,980	472,461

John Staurulakis, Inc.

Bek Communications I Inc.
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
TRANSPORT MINUTES OF USE
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

END OFFICE / REMOTE	7 MONTHS ENDING 7/31/99 SWITCHED MINUTES OF USE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	CHECK	USWEST MOU	ALL OTHER CARRIERS MOU
Linton	624,530	1,116,731			
Lehr	59,802	106,933			
Zeeland	127,950	228,789			
Wishek	455,741	814,917			
Steele	615,650	1,100,853			
Napoleon	419,066	749,338			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
		0			
	2,302,739	4,117,561	-	2,925,791	1,191,770

Note: MOU Per NCDC REPORT D32500

Bek Communications I Inc.
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
TRANSPORT TERMINATION REVENUES
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

END OFFICE / REMOTE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	RATE	(MOU*RATE) TOTAL TRANSPORT TERMINATION REVENUES
Linton	1,116,731	$0.000933	$1,042
Lehr	106,933	$0.000933	$100
Zeeland	228,789	$0.000933	$213
Wishek	814,917	$0.000933	$760
Steele	1,100,853	$0.000933	$1,027
Napoleon	749,338	$0.000933	$699
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$3,841

NOTE: Current NECA Rate (effective 7-1-99)

Bek Communications I Inc.
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
BIP/MINUTE/MILE DEVELOPMENT

END OFFICE / REMOTE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	MILES	BIP	(MOU*MI*BP) TOTAL BMM
Linton	1,116,731	43	100.00%	48,019,433
Lehr	106,933	48	100.00%	5,132,784
Zeeland	228,789	61	100.00%	13,956,129
Wishek	814,917	44	100.00%	35,856,348
Steele	1,100,853	0	100.00%	-
Napoleon	749,338	25	100.00%	18,733,450
* Ashley	243,881	121	32.00%	9,443,072
** Nelvik	35,873	94	43.00%	1,449,987
** South Nelvik	384	94	43.00%	15,521
** Venturia	55,918	81	51.00%	2,309,973
** South Venturia	6,847	81	51.00%	282,850
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				135,199,547

* Dickey Rural Communications, Inc. Flow Through
** Dickey Rural Telephone Cooperative Flow Through

As filed ORIGINALLY
(HAS BEEN REVISED

BEK COMMUNICATIONS I, INC.
INTRALATA ACCESS SERVICE
PRICE SCHEDULE

State of North Dakota
Effective 8/23/99

Access Rate Sheet

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.042610
Terminating	$0.042610

2. Local Transport

ORIGINAL FILING ERROR .000933

	Rate Per Access Minute
Termination	$0.000675

.000933

	Rate Per Access Minute Per Mile
Facility	$0.0004358

.000608 ↓ BIPS CHANGED

3. End Offices

Switching

	Rate Per Access Minute
LS1	$0.025335
LS2	$0.025335

800 Data Base Service Queries

	Rate Per Query
Basic	.0080
Vertical Feature	.0084

John Staurulakis INCORPORATED

Eagandale Corporate Center, Suite 310
1380 Corporate Center Curve, Eagan, Minnesota 55121
phone: 612-452-2660 fax: 612-452-1909

COPY

September 3, 1999

Mr. Jon Mielke
Executive Secretary
Public Service Commission
State Capitol
600 East Boulevard Avenue
Bismarck, ND 58505-0480

Dear Mr. Mielke:

On behalf of BEK Communications I, Inc., I am enclosing an original and eight copies of their revised North Dakota Intralata Access Rates. These revised access rates are being filed in accordance with the resolution of Case No. PU-1680-99-206 to be effective on August 23, 1999.

Included in this package you will find an Intrastate Intralata access rate sheet, worksheets identifying the access charge rate development, and a Part 69 cost study based on the current separation rules applicable in North Dakota. We have only included three copies of the Part 69 study based on conversation with Pat Fahn. As agreed to by Pat Fahn, BEK Communications I, Inc. will be filing, within the next two to three weeks, the terms and conditions for their Intrastate Intralata Tariff.

If you have any questions concerning this information or would like further information, please call me at (651) 452-2660.

Sincerely,

James E. Howard, Jr.

James E. Howard, Jr.
Vice President Business Services
jhoward@jsitel.com

JEH:bw
Enclosure
cc: Jerome Tishmack, BEK Communications I, Inc.
JSI, Maryland

BEK COMMUNICATIONS I, INC.
INTRALATA ACCESS SERVICE
PRICE SCHEDULE

State of North Dakota
Effective 8/23/99

Access Rate Sheet

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.042610
Terminating	$0.042610

2. Local Transport

	Rate Per Access Minute
Termination	$0.000675

	Rate Per Access Minute Per Mile
Facility	$0.0004358

3. End Offices

Switching

	Rate Per Access Minute
LS1	$0.025335
LS2	$0.025335

800 Data Base Service Queries

	Rate Per Query
Basic	.0080
Vertical Feature	.0084

LAW OFFICES OF
PRINGLE & HERIGSTAD, P.C.

BREMER BANK BUILDING
20 SW 1ST STREET
POST OFFICE BOX 1000
MINOT, NORTH DAKOTA 58702
(701) 852-0381
FAX (701) 857-1361

L.O. HERIGSTAD
MARK F. PURDY
JAN M. SEBBY
DONALD A. NEGAARD
JAMES E. NOSTDAHL
JOHN J. PETRIK
CAROL K. LARSON
DAVID J. HOGUE

REED A. SODERSTROM
MARK R. HAYS
THOMAS A. WENTZ JR.
DONALD T. CAMPBELL
MICHAEL A. BOSH

RETIRED
THOMAS A. WENTZ

March 4, 1999

Public Service Commission
State Capitol
600 E. Boulevard Ave.
Bismarck, ND 58505-0480

On behalf of BEK Communications I, Inc., a telecommunications company under N.D.C.C. Title 49, we hereby file the company's election not to be subject to the provisions of section 49-21-01.2 and section 49-21-01.3, and to be subject to rate and rate of return regulation.

This company was formed to purchase US West exchanges effective June 1, 1996, pursuant to the Commission's Order in Case No. PU-314-94-688. Accordingly, this election is effective as of June 1, 1996.

This company has fewer than 8,000 local exchange subscribers. Accordingly, this election affects only rates, terms, and conditions of access services or connection between facilities and transfer of telecommunications between two or more telecommunications companies, as provided by N.D.C.C. 49-02-01.1.

This election is filed on the company's behalf by me as legal counsel. I affirm that I am authorized by the company to file this election under N.D.C.C. 49-21-01.2.

Jan M. Sebby
jb
cc: Jerome Tishmack, Manager - BEK Communications I, Inc.

Bek Communic[illegible] I Inc.
SUMMARY DEVELOPMENT OF [illegible]TRASTATE INTRALATA
SWITCHED ACCESS RATE DEVELOPMENT
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

			COMMON LINE	LOCAL SWITCHING	TRANSPORT TERMINATION	TRANSPORT FACILITY	TOTAL
1. Total Revenue Requirement			202,152	104,319	0	86,010	392,481
2. 10% NTS Reduction			20,215				20,215
3. Acces Line Reduction	3,605	Access Lines x .15 x 12 Mo.	6,489				6,489
4. Total Adjusted Revenue Requirement			175,448	104,319	-	86,010	365,777
5. CCL Minutes of Use			4,117,561				
6. CCL Rate		Line 4 Divided by Line 5	0.042610				
7. LS Minutes of Use		Line 5		4,117,561			
8. LS Rate		Line 4 Divided by Line 7		0.025335			
9. Local Transport Termination Rate					0.000933		
10. Local Transport Termination Revenues						3,841	
11. Adj. Transport Revenue Requirement		Line 4 Less Line 10				82,169	
12. BIP Minute Miles						121,698,144	
13. Local Transport Rate		Line 11 Divided by Line 12				0.000675	

0.08883

Bek Comm tions I Inc.

SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
WEIGHTED SWITCHED ACCESS REVENUE REQUIREMENT
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

		Source	COMMON LINE	LOCAL SWITCHING	INFORMATION	TRANSPORT	OTHER	TOTAL
1. Plant in Service		Part 69, Form 1, Ln 18	925,906	221,284	0	277,539	32,034	1,456,763
2. Plant Under Construction		Part 69, Form 1, Ln 20	1,080	258	0	323	37	1,698
3. Net Investment		Part 69, Form 2, Ln 43	604,552	102,780	0	183,397	21,220	911,949
4. Rate of Return		FCC Authorized	0.1100000	0.1100000	0.1100000	0.1100000	0.1100000	
5. Return		(Line 3 x 4)	66,501	11,306	0	20,174	2,334	100,315
6. AFUDC		Part 69, Form 10, Ln 192	0	0	0	0	0	0
7. Net Return		(Lines 5 - 6)	66,501	11,306	0	20,174	2,334	100,315
8. Fixed Charges		Part 69, Form 10, Ln 199	995	169	0	302	35	1,501
9. Investment Tax Credit		Part 69, Form 10, Ln 191	0	0	0	0	0	0
10. Other FIT Adjustments		Part 69, Form 10, Ln 195	0	0	0	0	0	0
11. Subject to FIT		(Lines 5-8-9-10)	65,506	11,137	0	19,872	2,299	98,814
12. Federal Income Tax @	51.5152%		33,746	5,737	0	10,237	1,184	50,904
13. Other SIT Adjustments		Part 69, Form 10, Ln 198	0	0	0	0	0	0
14. Subject to SIT		(Lines 11-13)	65,506	11,137	0	19,872	2,299	98,814
15. State Income Tax @	11.7318%		7,685	1,307	0	2,331	270	11,593
16. Return + FIT + SIT		(Lines 5-9+12+15-6)	107,932	18,350	0	32,742	3,788	162,812
17. Expenses and Taxes		Part 69, Form 10, Ln 208	94,220	85,969	0	53,268	76,192	309,649
18. Subtotal		(Lines 16+17)	202,152	104,319	0	86,010	79,980	472,461
19. Gross Receipts Tax @	0.0000%		0	0	0	0	0	0
20. Subtotal		(Line 18+19)	202,152	104,319	0	86,010	79,980	472,461
21. Psc Fee @	0.0000%		0	0	0	0	0	0
22. Total Revenue Requirement		(Lines16+17+19+21)	202,152	104,319	0	86,010	79,980	472,461

Bek Communications I Inc.
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
TRANSPORT MINUTES OF USE
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

END OFFICE / REMOTE	7 MONTHS ENDING 7/31/99 SWITCHED MINUTES OF USE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	CHECK	USWEST MOU	ALL OTHER CARRIERS MOU
Linton	624,530	1,116,731			
Lehr	59,802	106,933			
Zeeland	127,950	228,789			
Wishek	455,741	814,917			
Steele	615,650	1,100,853			
Napoleon	419,066	749,338			
		0			
		0			
		0			
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		0			
		0			
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		0			
		0			
		0			
		0			
		0			
		0			
		0			
	2,302,739	4,117,561	-	2,925,791	1,191,770

Note: MOU Per NCDC REPORT D32500

Bek Communications I Inc.
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
TRANSPORT TERMINATION REVENUES
FOR THE 12 MONTHS ENDING DECEMBER 31, 1998

END OFFICE / REMOTE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	RATE	(MOU*RATE) TOTAL TRANSPORT TERMINATION REVENUES
Linton	1,116,731	$0.000933	$1,042
Lehr	106,933	$0.000933	$100
Zeeland	228,789	$0.000933	$213
Wishek	814,917	$0.000933	$760
Steele	1,100,853	$0.000933	$1,027
Napoleon	749,338	$0.000933	$699
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$0
			$3,841

NOTE: Current NECA Rate (effective 7-1-99)

Bek Communications I Inc.
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
BIP/MINUTE/MILE DEVELOPMENT

END OFFICE / REMOTE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	MILES	BIP	(MOU*MI*BP) TOTAL BMM
Linton	1,116,731	43	100.00%	48,019,433
Lehr	106,933	48	100.00%	5,132,784
Zeeland	228,789	61	100.00%	13,956,129
Wishek	814,917	44	100.00%	35,856,348
Steele	1,100,853	0	100.00%	-
Napoleon	749,338	25	100.00%	18,733,450
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				121,698,144

Bek Communications I Inc.
SUMMARY DEVELOPMENT OF INTRASTATE INTRALATA
BIP/MINUTE/MILE DEVELOPMENT

END OFFICE / REMOTE	12 MONTHS ENDING 12/31/98 ESTIMATED SWITCHED MINUTES OF USE	MILES	BIP	(MOU*MI*BP) TOTAL BMM
Linton	1,116,731	43	100.00%	48,019,433
Lehr	106,933	48	100.00%	5,132,784
Zeeland	228,789	61	100.00%	13,956,129
Wishek	814,917	44	100.00%	35,856,348
Steele	1,100,853	0	100.00%	-
Napoleon	749,338	25	100.00%	18,733,450
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				121,698,144

IntraLATA

There are three rate categories which apply to Switched Access Service and include Local Transport, End Office and Common Line.

(A) Local Transport

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

(1) Local Transport Termination

The Local Transport Termination rate element is accessed on a per access minute basis and recovers the portion of costs of circuit equipment.

(2) Local Transport Facility

The Local Transport Facility rate element is accessed on a per mile per access minute basis and recovers the costs of the transmission facilities.

(3) Tandem Switched Transport Facility

The Tandem Switched Transport Facility rate element is accessed on a per mile per access minute with distance measured from the wire center that normally serves the customer designated premises to the end office switch(es), which may be a Remote Switching Module(s).

(B) End Office

The End Office rate category establishes the charges related to 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 and Information Surcharge rate elements.

(1) Local Switching

The Local Switching rate element establishes the charges related to the use of end office switching equipment and the terminations in the end office.

(2) Information Surcharge

Information Surcharge rates are assessed to a customer based on the total number of minutes.

(C) Carrier Common Line

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

Besides the terms defined above and the rates included herein all other terms and conditions mirror those of Northwestern Bell Telephone Company's Intrastate tariff filed in Case No.'s 10,644 and 10,699 (the 1986 tariff).

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OLSEN THIELEN & CO., LTD.

Certified Public Accountants & Consultants

September 23, 1999

Mr Jon Mielke
Executive Secretary
Public Service Commission
State Capital
600 East Boulevard Avenue
Bismark ND 58505-0480

Enclosed are eight copies of the North Dakota IntraLATA Switched Access Service Tariff for the Rural Telephone Company Group which is being filed pursuant to Item 6 of the stipulated agreement between US West and the Rural Telephone Company Group signed July 14, 1999 in Case No. PU-1540-99-222 to be effective August 23, 1999. Please contact me with any questions concerning this filing at (651) 481-1789.

Sincerely,

John W Coleman
Certified Public Accountant

cc: Jim Howard, JSI 651 452 1909

Associated World-wide with Jeffreys Henry International JHI
223 Little Canada Road, St. Paul, Minnesota 55117-1376 651 483 4521 FAX 651 483 2467
6640 Shady Oak Road, Minneapolis, Minnesota 55344-7709 612 941 9242

RURAL TELEPHONE COMPANY GROUP

STATE OF NORTH DAKOTA
EFFECTIVE: AUGUST 23, 1999 SWITCHED ACCESS SERVICE TARIFF

IntraLATA

There are three rate categories which apply to Switched Access Service and include Local Transport, End Office and Common Line.

(A) Local Transport

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

(1) Local Transport Termination

The Local Transport Termination rate element is accessed on a per access minute basis and recovers the portion of costs of circuit equipment.

(2) Local Transport Facility

The Local Transport Facility rate element is accessed on a per mile per access minute basis and recovers the costs of the transmission facilities.

(3) Tandem Switched Transport Facility

The Tandem Switched Transport Facility rate element is accessed on a per mile per access minute with distance measured from the wire center that normally serves the customer designated premises to the end office switch(es), which may be a Remote Switching Module(s).

(B) End Office

The End Office rate category establishes the charges related to 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 and Information Surcharge rate elements..

(1) Local Switching

The Local Switching rate element establishes the charges related to the use of end office switching equipment and the terminations in the end office.

(2) Information Surcharge

Information Surcharge rates are assessed to a customer based on the total number of minutes.

(C) Carrier Common Line

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

RECEIVED
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NORTH DAKOTA
PUBLIC SERVICE
COMMISSION
SECRETARY

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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Bek Communications Cooperative
State of North Dakota

ACCESS
SERVICE TARIFF

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CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS	REGISTERED TRADEMARKS
NONE	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
dBrnCO - Decibel Reference Noise C-Message Weighted to O
dBv - Decibel(s) Relative to 1 Volt (Reference)
dBvl - 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.

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

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) preceeding 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 AND CERTIFICATION REQUIREMENTS --

(A) Jurisdictional Reports D

(A) A Feature Group C (FG C) or Feature Group D (FG D) call is considered interstate when the call originates from a calling party in one state and terminates to a called party in another state. A call is considered an intrastate call when the calling and called parties are located within the same state - even when the call is physically routed through another state. N N

A Feature Group A (FG A) or Feature Group B (FG B) call is considered interstate when the point of entry into the access customer's network is in a state different from the state in which the called party is located. A call is considered an intrastate call when the point at which the call enters the access customer's network is located within the same state as the called party. N N

2.3.10 JURISDICTIONAL REPORT AND CERTIFICATION REQUIREMENTS -- (Cont'd)

(B) When the Telephone Company has sufficient call detail available to it to determine the jurisdiction of some or all of the customer's originating and terminating minutes of use, the Telephone Company will use its data to render the customer's bill for all usage rated elements, i.e., Local Switching and Tandem Switched Transport access minutes. The Telephone Company will not rely on any customer-provided percentage jurisdictional factors (Interstate Interlata, Interstate Intralata, Intrastate Interlata and Intrastate Intralata) to apportion traffic for which it has sufficient call detail. "Sufficient call detail" would include any billing data and/or network recordings available to the Telephone Company from which it could obtain the calling and called party telephone numbers. Examples of data sources include, but are not limited to, fields extracted from automatic message accounting (AMA) records, Signaling System 7 (SS7) call setup records, detail access usage records (AURs) from a connecting carrier, etc. N N

(C) Customer-provided jurisdictional factors, as described below, will be used by the Telephone Company when it does not have sufficient call detail to determine the jurisdiction of the customer's usage. However, such customer-provided jurisdictional factors will only be applied to that subset of access minutes that the Telephone Company cannot jurisdictionalize using data available to it. N N

(D) When the customer orders any Switched Access Service, the projected jurisdictional factors for each Switched Access Service end office group by originating and terminating must be provided in its order for service. If the customer fails to provide projected jurisdictional factors on its initial order for service, then the jurisdictional factors will be set on a default basis of 50 percent Interstate, 25 percent Intrastate Interlata and 25 percent Intrastate Intralata. These customer specific factors will be applied to the customer's originating and terminating usage for which the Company does not have sufficient call detail. The jurisdictional factors provided by the customer on its initial order for service (or as calculated by the Company) will apply until such time as the customer provides an update to its jurisdictional factor(s). N N

(E) Interstate/intrastate jurisdictional reports must be updated quarterly by the customer. Each Exchange Carrier, including those providing Extended Area Service, must receive this update from the customer by the 15th of January, April, July, and October. These reports reflect the interstate/intrastate percentage for the prior 3 months ending with the last day of December, March, June, and September, respectively. Such revised jurisdictional factor(s) will serve as the basis for the next three (3) months' billing where sufficient call detail is not available. No prorating or back billing will be done based on such revised reports. N N

(F) The customer is required to retain for a minimum of six (6) months its call detail records and description(s) of any mechanized system(s) on which it relied to calculate its customer-provided jurisdictional factor(s). Such information may be requested under the provisions of an audit as described below. N N

2.3.11 Disputes Involving Jurisdictional Reports -- Switched Access PIU Audits --

(A) The Telephone Company may initiate an audit of customer-provided jurisdictional factor(s) if the Telephone Company or a regulatory commission questions the validity of the factor(s). Such audit request is initiated in writing by the Telephone Company (recommended delivery via certified U.S. Mail) and requires the customer to make available for inspection by the Telephone Company or independent auditor the data the customer used in its calculations. The data to be reviewed will be limited to one quarter's data unless the customer requests a longer period and the Telephone Company agrees. The Telephone Company can only audit a customer's jurisdictional factor(s) once a year, except under extreme conditions. N

Jurisdictional factor(s) audits may be conducted by:

- the Telephone Company, if the customer agrees; or
- an independent auditor selected and paid for by the Telephone Company; or
- an independent auditor mutually agreed upon and equally paid for by the Telephone Company and customer; or
- an independent auditor selected and paid for by the customer.

If the customer fails to provide the data required within 30 days of the notice of audit, the customer will be in violation of the tariff and subject to the provisions for refusal and/or discontinuance of service specified in the tariff.

The party paying for the audit will present the audit results in writing via certified U.S. Mail to the other party. If the auditor is selected and paid for by the customer, the auditor must also certify as part of its written audit report that the audit was performed following procedures for measuring and defining interstate traffic as established by Federal Communications Commission rules, orders, etc.

If the results of an independent audit paid for by the Telephone Company (in whole or in part) indicate that the customer had overstated any of its jurisdictional factor (s) by 20% or more, the customer will be required to reimburse the Telephone Company for the cost of the audit. The bill for the cost of the audit shall be due within 30 days from presentation and shall carry a late payment penalty if not paid within the 30 days.

The Telephone Company is required to use the audited results to adjust the customer's billing for the quarter in which the audit was completed, the quarter immediately preceding the quarter in which the audit was completed, and the two (2) quarters following the completion of the audit. Both debit and credit adjustments will be made to the customer's account.

During the second quarter following the completion of the audit, the customer may submit revised jurisdictional factor(s) to be used by the Telephone Company to apportion traffic for which it does not have sufficient call detail beginning the following quarter. If the revised jurisdictional factor(s) represent a deviation of 5% or more from the audited results and the deviation is not due to identifiable reasons, the Telephone Company may initiate a new audit request, as described above. N

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)

D

D

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)

2.3 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 occurence.

(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.

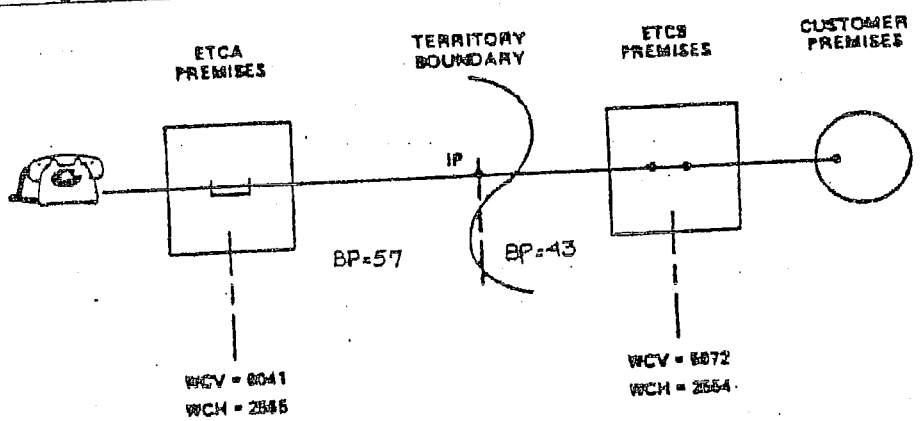
(B) Example - Switched Access

(1) Layout

a) Feature Group C Switched Access is orderd 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:

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

- 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).
[ELEPL = EPL - TLP (send) + TLP (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 descretion 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 is 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.

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

3.7 Rates and Charges

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

	Rate
Access Minute, each	$0.0299

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:

	USOC	Charge
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:

	USOC	Charge
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 spedified in (2) preceeding 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 cental 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:

	SID	RID	WOT	DD
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) M

SWITCHED ACCESS SERVICE - OVERVIEW

The following matrix highlights each feature group's characteristics (taken from the 1986 tariff):

FEATURE GROUP MATRIX

FEATURE GROUP	FGA	FGB	FGC (2)	FGD
Typical Service Use	FX/ONAL LONAL MTS-Type WATS-Type	MTS/MTS-Type WATS-Type	MTS/WATS WATS-Type	Equal Access
Carrier Access Code	7 Digit (NXX-XXXX)	7 Digit (950-XXXX)	None	101XXXX or Presubscription
Type Termination	Line Side	Trunk Side	Trunk Side	Trunk Side
Carrier Availability	All Customers	All Customers	Providers of MTS/WATS(2)	All Customers
Equal Access Office/Rates	MOU LS(1)	MOU LS(1)	MOU LS(1)	MOU LS

(1) All customers pay the same rates for all Switched Access rate elements without respect to Feature Group. The Company charges a unitary rate for each element ("premium rate") as it does not have a bifurcated premium/non-premium rate structure.

(2) Available to the providers of WATS (e.g., AT&T and SmartNet). Also available to Qwest or its successor Intrastate IntraLATA primary toll carrier, and to an exchange carrier acting as an interexchange carrier for the provision of Interstate IntraLATA Access. Other access customers, may obtain: (a) Originating FGC access for the provision of open end 800 and Interim NXX Service or (b) Terminating FGC access for testing purposes when used for the provision of Open End 800 and Interim NXX Service.

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

(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

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)

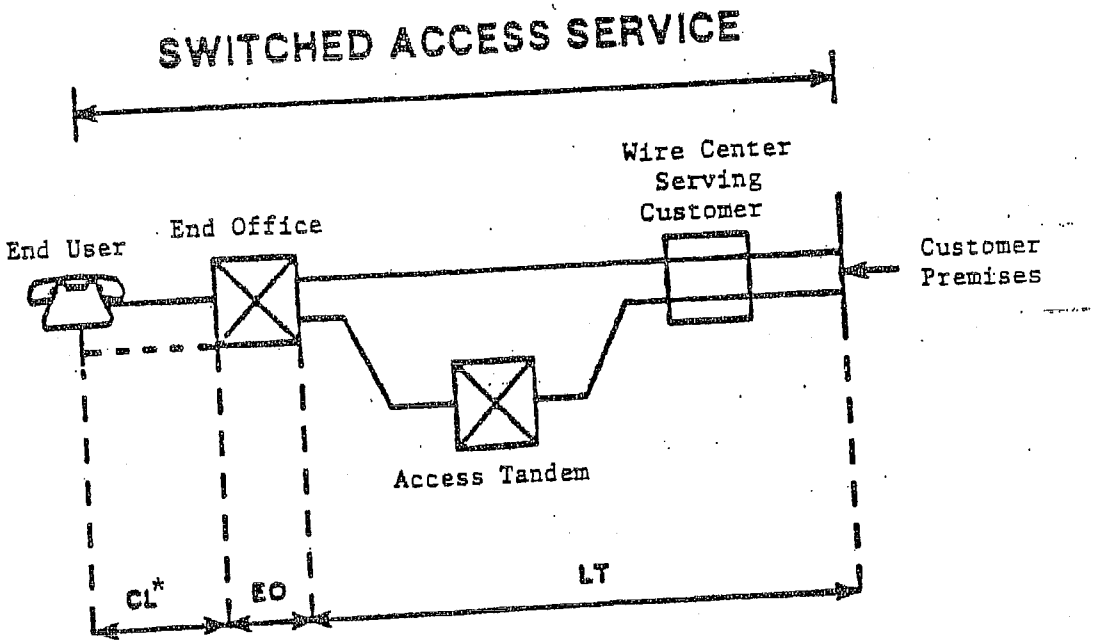
represent access capacity for carrying, respectively, only 800 or Operator traffic. When ordering such types of access capacity, the customer must specify Domestic, 800 or Operator BHMCs.

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. proceding)

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.



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

* 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)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	B	C	D
1	LO	2LS2	X			
	LO	2LS3	X			
	GO	2GS2	X			
	GO	2GS3	X			
	LO, GO	2DX3	X			
	LO, GO	4EA3-E	X			
	LO, GO	4EA3-M	X			
	LO, GO	6EB3-E	X			
	LO, GO	6EB3-M	X			
	RV, EA, EB, EC	2DX3		X	X	X
	RV, EA, EB, EC	4EA3-E		X	X	X
	RV, EA, EB, EC	4EA3-M		X	X	X
	RV, EA, EB, EC	6EB3-E		X	X	X
	RV, EA, EB, EC	6EB3-M		X	X	X
	EA, EB, EC	6EC3			X	X
	RV	2RV3-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 Switch Supervisory Signaling	Premises Interface Code	Feature Group 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
	RV, EA, EB, EC	8EC2-M			X	X
	EA, EB, EC	4RV2-O		X	X	X
	RV	4RV2-T		X	X	X
	RV	4RV3-O		X	X	
	RV	4RV3-T		X	X	
	RV					
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 RV, EA, EB, EC	4DS9-31	X			
		4DS9-31		X	X	X
	LO, GO RV, EA, EB, EC	4DS9-31L	X			
		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 (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:

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

(6) Standard Return Loss

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

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

(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 ± 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:

Route Miles	C-Message Noise*	
	Type B1	Type B2
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)

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

(6) Standard Return Loss

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

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

(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 ± 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:

Route Miles	C-Message Noise*	
	Type C1	Type C2
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:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	13 dB	6 dB
POT to End Office - Direct - Via Access Tandem (for FGB only)	13 dB 8 dB	6 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) Attentuation Distortion

The maximum Attentuation 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:

Route Miles	C-Message Noise
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) Attentuation Distortion

The maximum Attentuation 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:

Route Miles	C-Message Noise
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:

	604 to 2804 Hz
less than 50 route miles	500 microseconds
equal to or greater than 50 route miles	900 microseconds

	1004 to 2404 Hz
less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

(3) Impulse Noise Counts

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

(4) Intermodulation Distortion

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

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

(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:

604 to 2804 Hz

less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds

1004 to 2404 Hz

less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

(3) Impulse Noise Counts

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

(4) Intermodulation Distortion

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

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

(5) Phase Jitter

The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 7° 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 dBrnCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

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

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

(5) Phase Jitter

The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 7° 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) Attentuation Distortion

The maximum Attentuation 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:

Route Miles	C-Message Noise
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.

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.

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 a 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)

Mileage Bands	Minimum Transport Charge For FGC and FGD Per BHMC*	Minimum Transport Charge For FGA, FGB or FGD** Per Line or Trunk
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 incompleted 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 incompleted 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

Trunks in Service	1%	1/2%
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

Call Miles	Rates Per Access Minute
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

	FID
(1) Supervisory Signaling	
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)

	FID
(1) Supervisory Signaling (Cont'd)	
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

	Rates Per Access Minute
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)

	FID
Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement (Available with FGA) - Per Transmission Path	NHN
Automatic Number Identification (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)

	FID
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	NC +++A
- Dial Pulse with Ground Start	NC +++E
- DTMF with Loop Start	NC +++F
- DTMF with Ground Start	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

	Rate Per Access Minute	FID
(1) Common Line and WATS Access Line Terminations	$.0083	
(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

	USOC	Monthly Rate	Nonrecurring Charge
(a) Trunk Side Terminations:			
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
			FID
(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

	Rate Per 100 Access Minute
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

	USOC
(A) Two-Wire/Four-Wire WATS Access Line	
- Two-Wire Line	X2W
- Four-Wire Line	X4W

	FID
(B) Improved Two-Wire Voice Transmission Specifications for Two-Wire WATS Access Line	NC SF++

6.8.5 Message Unit Credit

	Per Originating Access Minute
Message Unit Credit	($.00148)*

6.8.6 Equal Access and Network Reconfiguation Recovery Charge

	Rates
Rate Per Access Minute	$.0051

* () equals a negative amount.

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:

Additional Engineering Periods	USOC	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
(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:

Additional Labor Periods	USOC	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
(A) Installation or Repair			
- Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician	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:

Additional Labor Periods	USOC	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
(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:

Maintenance of Service Periods	USOC	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
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)

Maintenance of Service Periods	USOC	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
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.

	Nonrecurring Charge
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:

	USOC	Nonrecurring Charges
(A) Standard Voice Jacks		
(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)

	USOC	Nonrecurring Charges
(1) (Cont'd)		
(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 nonkey 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)	USOC	Nonrecurring Charges
(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)

	USOC	Nonrecurring Charges
(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

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)

	USOC	Nonrecurring Charges
(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

Testing Periods	USOC	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
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.

To First Point of Switching	USOC	Monthly Rates
(I) Basic Tests #		
1004 Hz Loss Tests performed within a one year period, per test ordered, per transmission path	UBGX+	$.11
C-Message Noise Tests performed within a one year period, per test ordered, per transmission path	UBGX+	$.11
Return Loss (Balance) Tests performed within a one year period, per test ordered, per transmission path	UBGX+	.04

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)

To First Point of Switching	USOC	Monthly Rates
(II) Additional Tests		
Gain-Slope Tests performed within a one year period, per test ordered, per transmission path	UBGX+	.04
C-Notched Noise Tests performed within a one year period, per test ordered, per transmission path	UBGX+	.04

(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 = .08
$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.

To First Point of Switching	USOC	Monthly Rates
(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)

To First Point of Switching	USOC	Monthly Rates
(II) Additional Tests		
Gain-Slope Tests performed within a one year period, per test ordered, per transmission path	UBSX+	.08
C-Notched Noise Tests performed within a one year period, per test ordered, per transmission path	UBSX+	.08

(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
$3.92 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)

(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.

To First Point of Switching	USOC	Monthly Rates
(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)

To First Point of Switching	USOC	Monthly Rates
(I) Basic Tests # (Cont'd)		
C-Message Noise Tests performed within a one year period, per test ordered, per transmission path	UBMX+	$.54
Return Loss (Balance) Tests performed within a one year period, per test ordered, per transmission path	UBMX+	.28
(II) Additional Tests		
Gain-Slope Tests performed within a one year period, per test ordered, per transmission path	UBMX+	.14
C-Notched Noise Test performed within a one year period, per test ordered, per transmission path	UBMX+	.14
(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:

To First Point of Switching	USOC	Nonrecurring Charges
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:

Testing Periods	USOC	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
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:

Testing Periods	USOC	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
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)

Testing Periods	USOC	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
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)

Testing Periods	USOC	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
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:

	FID	Rates
(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)

	FID	Rates
(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	NOB NEL	ICB Rates and Charges Apply
per microfiche record	BOD FH	

13.3.7 Protective Connecting Arrangements

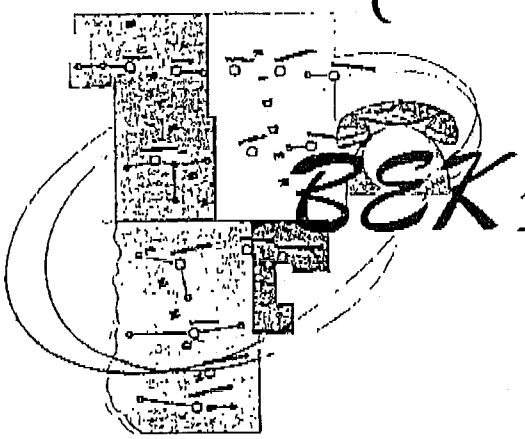
Protective Connecting Arrangements (PCA's) will not be offered in North Dakota. Any Protective Connecting Arrangement in place for intrastate use is grandfathered and any rearrangement change, move or maintenance will be subject to the rules, regulations, and rates as set forth in the North Dakota General Exchange Tariff.

C.) Bek Communications Cooperative Intrastate Interlata Tariff

SUMMARY-HISTORICAL (Interlata)

For Intrastate Interlata Bek Communications Cooperative mirrors the terms and conditions of the Intrastate tariff filed by Northwestern Bell in Case No. 10,444 (1984 Tariff) that was effective January 1, 1984. All prices were mirrored with the exception of the common line element.

For Intrastate Interlata Bek Communications I, Inc. as a condition of the purchase of the exchanges in 1996, stipulated that it would adopt the U.S. West Communications, Inc.'s price schedule and terms and conditions of service with the exception of the switched access prices which were specified, stipulated and agreed upon. The U.S. West Communications, Inc. tariff in place at the time was the tariff filed by Northwestern Bell Telephone Company in Case No.'s 10,694 and 10,699 (1986 Tariff).



BEK Telephone Mutual Aid Corporation

Area Code 701-475-2361 Steele, North Dakota 58482

January 6, 1984

RECEIVED
JAN 9 1984
NORTH DAKOTA
PUBLIC SERVICE
COMMISSION
SECRETARY

Mr. Bruce Hagen, Chairman
ND Public Service Commission
State Capitol
Bismarck, North Dakota 58501

Dear Commissioner Hagen:

At a regular board meeting held on December 28, 1983, the Board of Directors of BEK Telephone Mutual Aid Corporation agreed to participate as a concurring carrier in the Northwestern Bell Telephone Tariff for access charges to AT&T. We will use the bill and keep method of carrier access charging, initially, but would like to keep open the option of pooling for long term for carrier access billing.

Sincerely,

Jerome Tishmack, Manager
BEK TELEPHONE MUTUAL AID CORPORATION

JT:sb

APPROVED PSC N. DAK.
JAN 17 1984
Case No. 6153
Formal Case No. ....

Public Service Commission
State of North Dakota

COMMISSIONERS
Bruce Hagen
President
Leo M. Reinbold
Dale V. Sandstrom
Secretary, Janet A. Elkin

Capitol Building
Bismarck, North Dakota 58505
(701) 224-2400

January 19, 1984



Mr. Jerome Tishmack, Manager
BEK Telephone Mut Aid Corp
Steele, ND 58482

Mr. Tishmack:

On January 17, 1984, this Commission approved your Letter of Concurrence with Northwestern Bell Telephone Company's access charge tariffs.

Our Case No. is I-6753.

Yours truly,

Janet A. Elkin

Janet A. Elkin
Secretary

sdh

Enclosure

BEK COMMUNICATIONS COOPERATIVE
INTERLATA ACCESS SERVICE
PRICE SCHEDULE
EXCHANGES GROUP 1

Exhibit 1
State of North Dakota — 1st Revised Page 1
Effective — Cancels Original Page 1

Access Rate Sheet

Exchanges:
Hazelton, Kintyre, McKenzie, Pettibone, Regan, Robinson, Sterling, Strasburg, Tappen, Turtle, Wilton, and Wing (N)

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.0291
Terminating	$0.0291

2. Local Transport

Call Miles	Rate Per Access Minute
0 to 1	$0.0074
Over 1 to 8	$0.0130
Over 8 to 16	$0.0301
Over 16 to 25	$0.0558
Over 25 to 50	$0.0602
Over 50 to 100	$0.0562
Over 100	$0.0580

3. End Offices

Line Terminations	Rate Per Access Minute
	0.008300

Switching

	Rate Per Access Minute
LS1	$0.0065
LS2	$0.0104

BEK COMMUNICATIONS COOPERATIVE
INTERLATA ACCESS SERVICE
PRICE SCHEDULE

State of North Dakota
Effective

Original
Exhibit 1
Page 1

Access Rate Sheet

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.0291
Terminating	$0.0291

2. Local Transport

Call Miles	Rate Per Access Minute
0 to 1	$0.0074
Over 1 to 8	$0.0130
Over 8 to 16	$0.0301
Over 16 to 25	$0.0558
Over 25 to 50	$0.0602
Over 50 to 100	$0.0562
Over 100	$0.0580

3. End Offices

Line Terminations	Rate Per Access Minute
	0.008300

Switching

	Rate Per Access Minute
LS1	$0.0065
LS2	$0.0104

BEK COMMUNICATIONS COOPERATIVE
INTERLATA ACCESS SERVICE
PRICE SCHEDULE
EXCHANGES GROUP 2

Exhibit 1
State of North Dakota — 1st Revised Page 1
Effective — Cancels Original Page 1

Access Rate Sheet

Exchanges:
Lehr, Linton, Napoleon, Steele, Wishek, Zeeland (N)

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.022900 *
Terminating	$0.022900 *

2. Local Transport

	Rate Per Access Minute
Termination	$0.014500 *

	Rate Per Access Minute Per Mile
Facility	$0.007600 *

3. End Offices

Switching

	Rate Per Access Minute
LS1	$0.022000 *
LS2	$0.022000 *

* *Stipulated rates per 1996 Acquisition Agreement with U.S. West Communications, Inc.*

BEK COMMUNICATIONS I, INC.
INTERLATA ACCESS SERVICE
PRICE SCHEDULE

State of North Dakota
Effective

Original
Exhibit 1
Page 1

Access Rate Sheet

1. Carrier Common Line

	Rate Per Access Minute
Originating	$0.022900 *
Terminating	$0.022900 *

2. Local Transport

	Rate Per Access Minute
Termination	$0.014500 *

	Rate Per Access Minute Per Mile
Facility	$0.007600 *

3. End Offices

Switching

	Rate Per Access Minute
LS1	$0.022000 *
LS2	$0.022000 *

* *Stipulated rates per 1996 Acquisition Agreement with U.S. West Communications, Inc.*

ACCESS SERVICE

CHECK SHEET

Original Pages 1 to 1108 inclusive of this tariff are effective as of the date shown.

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ACCESS SERVICE

CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS

DATAPHONE

REGISTERED TRADEMARKS

DATAPHONE

ACCESS SERVICE

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

ABD - Average Business Day
ac - Alternating current
AML - Actual Measured Loss
ANI - Automatic Number Identification
AP - Program Audio
AT&T - American Telephone and Telegraph Company
BHMC - Busy Hour Minutes of Capacity
CAROT - Centralized Automatic Reporting on Trunks
CNCC - Customer Network Control Center
CO - Central Office
COCTX - Central Office Centrex
Cont'd - Continued
CPE - Customer Provided Equipment
CSACC - Customer Service Administration Control Center
Ctx - Centrex
DA - Directory Assistance
dB - decibel
dBrnC - Decibel Reference Noise C-Message Weighting
dBrnCO - Decibel Reference Noise C-Message Referenced to O
dBv - decibel(s) relative 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

ACCESS SERVICE

EXPLANATION OF ABBREVIATIONS

FI	-	Facility Interface
FID	-	Field Identifier
F.C.C.	-	Federal Communications Commission
FX	-	Foreign Exchange
HC	-	High Capacity
Hz	-	Hertz
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
rms	-	root-mean-square
RMS	-	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

ACCESS SERVICE

EXPLANATION OF ABBREVIATIONS

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.

ACCESS SERVICE

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 Interstate Customer(s), hereinafter referred to as IC(s).

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 IC for the furnishing of any service.

1.3 The regulations, rates and charges contained herein are in addition to the applicable regulations, rates and charges specified in other tariffs of the Telephone Company which are referenced herein.

ACCESS SERVICE

2. General Regulations

2.1 Undertaking of the Telephone Company

2.1.1 Scope

(A) Services provided to an IC under the provisions of this tariff may be connected to facilities used by the IC for the purpose of extending such facilities of the IC between certain locations and thereby constitute a portion of an end-to-end interstate telecommunications service furnished by the IC for its own use or for the use of End Users.

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

(C) The Telephone Company shall be responsible only for the installation, operation and maintenance of its services. The responsibility of the Telephone Company shall be limited to the provision of services under this tariff and to the maintenance and operation of such services in a proper manner.

(D) The Telephone Company will, for maintenance purposes, test its services only to the extent necessary to detect and/or clear troubles and will not perform a complete technical parameter verification when not deemed necessary by the Telephone Company.

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations

(A) The IC 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 IC, 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.

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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(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 ICs 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 an IC, End User 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 (H) following, the Telephone Company's liability except as set forth in 2.1.3 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 IC or End User under this tariff as a Credit Allowance for a Service Interruption.

(B) No carrier furnishing a portion of a service shall be liable for any act or omission of any other carrier furnishing a portion of that service.

(C) The Telephone Company is not liable for damages associated with service or facilities which it does not furnish.

(D) The Telephone Company is not liable for damages to the IC terminal location or End User 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.

(E) The Telephone Company shall be indemnified, defended and held harmless by the End User against any claim, loss or damage arising from the use of services offered under this tariff, involving:

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(E) (Cont'd)

(1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from any communications;

(2) Claims for patent infringement arising from combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the IC or End User 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.

(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 IC or End User from any and all claims by any person relating to the 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 IC or End User against claims of patent infringement arising solely from the use by the IC or End User of services offered under this tariff and will indemnify such IC or End User 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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.4 Provision of Services

The Telephone Company, 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 IC 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 network cable to that point where provision is made for termination of the Telephone Company's outside distribution network facilities at a location of minimum penetration inside of the IC terminal location or End User premises and (B) will be installed by the Telephone Company to such point of termination. This point of termination is defined as the Point of Interface at the IC terminal location and the Network Interface at the End User premises. Wire, required to extend the location of the interface from one location to another location within a building in order to extend Access Service facilties to the IC's or End User's premises equipment, will be provided, at the IC's or End User'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); 13.5.6(C), 13.8.6(C), 13.11.6(C) and 13.14.6(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 IC or others may not rearrange, move, disconnect, remove or attempt to repair any facilities provided by the Telephone Company except with the written consent of the Telephone Company. The IC shall maintain all facilities provided by it. The Telephone Company shall not be responsible to End Users for end-to-end service of which the services provided under this tariff are part.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.7 Changes and Substitutions

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. and 7. following. The Telephone Company shall not be responsible if any such substitution, change or rearrangement renders any IC 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 IC will be given adequate notice in writing. Reasonable time will be allowed for any redesign and implementation required by the change in operating characteristics.

2.1.8 Refusal and Discontinuance of Service

(A) Unless the provisions of 2.2.2 (B) or 4.5 (F) following apply, if the IC or End User fails to comply with the provisions of this tariff, including any payments to be made by it on the dates and times herein specified, the Telephone Company may, on ten (10) days written notice of non-compliance, refuse additional applications for service and/or refuse to complete any pending orders for service at any time thereafter. If the Telephone Company does not refuse additional applications for service on the date specified in the ten (10) day notice, and the IC's or End User's noncompliance continues, nothing contained herein shall preclude

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service (Cont'd)

(A) (Cont'd)

the Telephone Company's right to refuse additional applications for service without further notice.

(B) Unless the provisions of 2.2.2(B) following apply, if the IC or End User fails to comply with the provisions of this tariff, including any payments to be made by it on the dates and times herein specified, the Telephone Company may, on twenty (20) days written notice, discontinue the provision of the services involved 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 twenty (20) days notice, and the IC's or End User's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to discontinue the provision of the services involved without further notice.

2.1.9 Quotation Charge

Except as set forth in 10.7 following, a nonrecurring charge (USOC QPA) for the preparation of a quotation applies whenever an IC requests an estimate of rates and charges for any service for which the rates and charges are determined on an individual case basis prior to placing an order for service. The charge includes the costs associated with the development and preparation of the quotation. A bill for the quotation preparation will be rendered. The quotation is valid for 90 days and will identify all estimated costs associated with the provision of the facilities needed to satisfy the IC's service requirements. Within this 90 day period, if the IC orders the service as quoted and service is subsequently provided, the Quotation Charge will be credited to the IC's account. If the IC cancels the request for a

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.9 Quotation Charge (Cont'd)

quotation prior to its completion, the IC will be billed for the costs incurred, for quotation preparation, through the cancellation date.

2.1.10 Limitation of Use of Metallic Facilities

Except for ground start, duplex (DX) and McCulloh-Loop (Alarm System) type signaling, metallic facilities shall not be used for ground return or split pair operation. Signals applied to the metallic facility shall be voice or sub-voice and shall conform to the limitations set forth in 2.5.10 following. In the case of application of dc telegraph signaling systems, the IC 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.

2.1.11 Notification of Service-Affecting Activities

The Telephone Company intends to provide the IC timely notification of service-affecting activities.

2.1.12 Coordination with Respect to Network Contingencies

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

2.1.13 Provision and Ownership of Telephone Numbers

The IC and the End User have no property rights to telephone number assignments or any other call number designations associated with Access Services. The Telephone Company reserves the right to assign, designate or change such numbers, or the Telephone Company serving central office prefixes associated with such numbers, when reasonably necessary in the conduct of its business.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.2 Use

2.2.1 Purpose

(A) Services provided under this tariff shall be used by the IC for its own use or in furnishing its authorized interstate services to End Users and for operational purposes directly related to the furnishing of the IC's authorized services. Operational purposes include testing and maintenance of circuits, demonstration and experimental services and spare services. Telephone Exchange Services required by the IC for its administrative use are furnished under other applicable tariffs of the Telephone Company.

(B) Where facility conditions permit, the IC may use the entire transmission capability of a service provided under this tariff as a single channel or create additional communication channels within or below the voice frequency band; except that the IC may not create additional communication channels from video cable facilities or audio facilities other than diplexing associated audio signals on the video cable facility. The Telephone Company does not warrant that its facilities and services meet standards other than those set forth in this tariff.

2.2.2 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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.2 Use (Cont'd)

2.2.2. Interference or Impairment (Cont'd)

(B) If such characteristics or methods of operation are not in accordance with (A) preceding, the Telephone Company will, where practicable, notify the IC or End User 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 IC or End User 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.

2.2.3 Unlawful Use

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

2.3 Obligations of the IC

2.3.1 Damages

The IC 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 IC or an End User while using the services of the IC, or resulting from improper use of the Telephone Company facilities, or due to malfunction of any facilities or equipment provided by other than the Telephone Company. The Telephone Company will, upon reimbursement for damages, cooperate with the IC in prosecuting a claim against the person causing such damage and the IC shall be subrogated to the right of recovery by the Telephone Company for the damages to the extent of such payment.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the IC (Cont'd)

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 IC or End User, whenever requested, within a reasonable period following the request in as good condition as reasonable wear will permit.

The IC shall reimburse the Telephone Company for any loss through theft of facilities utilized to provide services under this tariff at the IC terminal location or End User premises.

2.3.3 Equipment Space and Power

The IC 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 IC and the Telephone Company. The IC 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. Equipment space and power furnished or arranged to be furnished by the IC shall not be used in the provision of service to any other IC or End User.

2.3.4 Additional Facilities and Protective Apparatus

The IC shall bear the cost, if any, of such additional facilities or protective apparatus which, according to accepted telecommunications industry standards, are required to be installed because of the particular use or hazardous location of the services provided under this tariff. Rates and/or charges, if applicable, will developed on an individual case basis and filed in 12. following.

2. General Regulations (Cont'd)

2.3 Obligations of the IC (Cont'd)

2.3.5 Inspection of Facilities and Protective Apparatus

The IC and End User shall allow the Telephone Company to inspect at reasonable times any facilities or equipment provided by other than the Telephone Company required in accordance with 2.3.4 preceding and 2.5 following which are associated with the services provided under this tariff to determine if such installation complies with such Telephone Company requirements.

2.3.6 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.

2.3.7 Balance

All signals for transmission over the services provided under this tariff shall be delivered by the IC 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.

2.3.8 Design of IC Services

Subject to the provisions of 2.1.7 preceding, the IC 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. General Regulations (Cont'd)

2.3 Obligations of the IC (Cont'd)

2.3.9 References to the Telephone Company

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

2.3.10 Contacts with IC Customers (End Users)

The IC shall be responsible for all contacts and arrangements with End Users concerning the provision and maintenance of, and the billing and collecting of charges for, the IC's services to End Users, except as set forth in 4., 8., 9. and 13 following, for End User Access Service, Billing Service, Directory Assistance Service and Presubscription, respectively.

2.3.11 Claims and Demands for Damages

(A) With respect to claims of patent infringement made by third persons, the IC 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 IC or End User.

(B) The IC 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 IC'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 IC's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the IC to obtain or maintain in effect any necessary certificates,

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2. General Regulations (Cont'd)

2.3 Obligations of the IC (Cont'd)

2.3.11 Claims and Demands for Damages (Cont'd)

(B) (Cont'd)

permits, licenses, or other authority to acquire or operate the services provided under this tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortuous conduct of the IC, its officers, agents or employees.

(C) The IC 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 IC or third persons arising out of the Telephone Company provision of Billing Analysis Service or any other service under this tariff at the request of the IC, including, but not limited to claims for libel, slander, invasion of privacy, conversion and trespass.

(D) The IC 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 IC or third parties arising out of any act or omission of the IC in the course of using services provided under this tariff.

2.3.12 Notification of Service-Affecting Activities

The IC shall provide the Telephone Company timely notification of the following: planned or unplanned outages of IC facilities which will affect the Telephone Company's capability to provide adequate service for anticipated traffic volumes; facility failures within the IC network which will adversely impact upon the Telephone Company's capability to provide adequate service for anticipated traffic volumes; and, IC marketing activities designed to generate rapid or short-term increases in anticipated traffic volumes. This timely notification will enable the Telephone Company to administer its network as set forth in 6.5.1 following.

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2. General Regulations (Cont'd)

2.3 Obligations of the IC (Cont'd)

2.3.13 Coordination with respect to Network Contingencies

The IC 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.

2.3.14 Jurisdictional Report Requirements

(A) Jurisdictional Reports

(1) When the IC 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 whole number 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 IC shall update the interstate and intrastate jurisdictional report. The IC 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, 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. If the IC does not supply the reports, the Telephone Company will assume the percentages to be the same as those provided in the last quarterly report. For those cases in which a quarterly report has never been received from the IC, the Telephone Company will assume the percentages to be the same as those provided in the order for service as set forth in (1) preceding.

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2. General Regulations (Cont'd)

2.3 Obligations of the IC (Cont'd)

2.3.13 Coordination with respect to Network Contingencies

The IC 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.

2.3.14 JURISDICTIONAL REPORT AND CERTIFICATION REQUIREMENTS --

(A) Jurisdictional Reports D

(A) A Feature Group C (FG C) or Feature Group D (FG D) call is considered interstate when the call originates from a calling party in one state and terminates to a called party in another state. A call is considered an intrastate call when the calling and called parties are located within the same state - even when the call is physically routed through another state. N

A Feature Group A (FG A) or Feature Group B (FG B) call is considered interstate when the point of entry into the access customer's network is in a state different from the state in which the called party is located. A call is considered an intrastate call when the point at which the call enters the access customer's network is located within the same state as the called party.

(B) When the Telephone Company has sufficient call detail available to it to determine the jurisdiction of some or all of the customer's originating and terminating minutes of use, the Telephone Company will use its data to render the customer's bill for all usage rated elements, i.e., Local Switching and Tandem Switched Transport access minutes. The Telephone Company will not rely on any customer-provided percentage jurisdictional factors (Interstate Interlata, Interstate Intralata, Intrastate Interlata and Intrastate Intralata) to apportion traffic for which it has sufficient call detail. "Sufficient call detail" would include any billing data and/or network recordings available to the Telephone Company from which it could obtain the calling and called party telephone numbers. Examples of data sources include, but are not limited to, fields extracted from automatic message accounting (AMA) records, Signaling System 7 (SS7) call setup records, detail access usage records (AURs) from a connecting carrier, etc.

(C) Customer-provided jurisdictional factors, as described below, will be used by the Telephone Company when it does not have sufficient call detail to determine the jurisdiction of the customer's usage. However, such customer-provided jurisdictional factors will only be applied to that subset of access minutes that the Telephone Company cannot jurisdictionalize using data available to it.

(D) When the customer orders any Switched Access Service, the projected jurisdictional factors for each Switched Access Service end office group by originating and terminating must be provided in its order for service. If the customer fails to provide projected jurisdictional factors on its initial order for service, then the jurisdictional factors will be set on a default basis of 50 percent Interstate, 25 percent Intrastate Interlata and 25 percent Intrastate Intralata. These customer specific factors will be applied to the customer's originating and terminating usage for which the Company does not have sufficient call detail. The jurisdictional factors provided by the customer on its initial order for service (or as calculated by the Company) will apply until such time as the customer provides an update to its jurisdictional factor(s). N

2.3.14 JURISDICTIONAL REPORT AND CERTIFICATION REQUIREMENTS -- (Cont'd)

(E) Interstate/Intrastate jurisdictional reports must be updated quarterly by the customer. Each Exchange Carrier, including those providing Extended Area Service, must receive this update from the customer by the 15th of January, April, July, and October. These reports reflect the interstate/intrastate percentage for the prior 3 months ending with the last day of December, March, June, and September, respectively. Such revised jurisdictional factor(s) will serve as the basis for the next three (3) months' billing where sufficient call detail is not available. No prorating or back billing will be done based on such revised reports. N

(F) The customer is required to retain for a minimum of six (6) months its call detail records and description(s) of any mechanized system(s) on which it relied to calculate its customer-provided jurisdictional factor(s). Such information may be requested under the provisions of an audit as described below. N

2. General Regulations (Cont'd)

2.3 Obligations of the IC (Cont'd) D

2.3.14 Jurisdictional Report Requirements (Cont'd)

(B) Maintenance of IC Records

2.3.15 Determination of Interstate Charges for Mixed Interstate and Intrastate Access Service D

2.3.15 Disputes Involving Jurisdictional Reports -- Switched Access PIU Audits -- N

(A) The Telephone Company may initiate an audit of customer-provided jurisdictional factor(s) if the Telephone Company or a regulatory commission questions the validity of the factor(s). Such audit request is initiated in writing by the Telephone Company (recommended delivery via certified U.S. Mail) and requires the customer to make available for inspection by the Telephone Company or independent auditor the data the customer used in its calculations. The data to be reviewed will be limited to one quarter's data unless the customer requests a longer period and the Telephone Company agrees. The Telephone Company can only audit a customer's jurisdictional factor(s) once a year, except under extreme conditions.

Jurisdictional factor(s) audits may be conducted by:

- the Telephone Company, if the customer agrees; or
- an independent auditor selected and paid for by the Telephone Company; or
- an independent auditor mutually agreed upon and equally paid for by the Telephone Company and customer; or
- an independent auditor selected and paid for by the customer.

If the customer fails to provide the data required within 30 days of the notice of audit, the customer will be in violation of the tariff and subject to the provisions for refusal and/or discontinuance of service specified in the tariff.

The party paying for the audit will present the audit results in writing via certified U.S. Mail to the other party. If the auditor is selected and paid for by the customer, the auditor must also certify as part of its written audit report that the audit was performed following procedures for measuring and defining interstate traffic as established by Federal Communications Commission rules, orders, etc.

If the results of an independent audit paid for by the Telephone Company (in whole or in part) indicate that the customer had overstated any of its jurisdictional factor(s) by 20% or more, the customer will be required to reimburse the Telephone Company for the cost of the audit. The bill for the cost of the audit shall be due within 30 days from presentation and shall carry a late payment penalty if not paid within the 30 days. N

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2. General Regulations (Cont'd)

2.3 Obligations of the IC (Cont'd)

2.3.14 Jurisdictional Report Requirements (Cont'd)

(B) Maintenance of IC Records

The IC shall maintain and retain for a minimum for one year, complete, detailed and accurate records, workpapers and backup documentation in form and substance to evidence the percentage data provided to the Telephone Company as set forth in (A) (1) and (2) preceding. All of the records, workpapers and backup documentation shall be made available during normal business hours, at the location named in the report, upon reasonable request by the Telephone Company in order to permit a review by the Telephone Company auditor or outside auditor under contract to the Telephone Company or an auditor of a federal or state regulatory commission. If the records, workpapers and backup documentation are not provided or are insufficient or not in accordance with the provisions of this paragraph, the percentages of interstate and intrastate service will be assumed by the Telephone Company to be the same as indicated in the last report received until the deficiencies are corrected and new reports, as required herein, are provided to the Telephone Company.

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

When mixed interstate and intrastate Access Service is provided, all charges (i.e., nonrecurring, monthly and/or usage) including optional features charges, will be prorated between interstate and intrastate. The percentage provided in the reports as set forth in 2.3.14 (A) preceding will serve as the basis for prorating the charges. The percentage of an Access Service to be charged as interstate is applied in the following manner:

(A) For monthly and nonrecurring chargeable rate elements, multiply the percent interstate use times the quantity of chargeable elements times the stated tariff rate per element.

2. General Regulations (Cont'd)

2.3 Obligations of the IC (Cont'd)

2.3.15 Determination of Interstate Charges for Mixed Interstate and Intrastate Access Service (Cont'd)

(B)

2.3.15 Disputes Involving Jurisdictional Reports -- Switched Access FII Audits -- (Cont'd)

The Telephone Company is required to use the audited results to adjust the customer's billing for the quarter in which the audit was completed, the quarter immediately preceding the quarter in which the audit was completed, and the two (2) quarters following the completion of the audit. Both debit and credit adjustments will be made to the customer's account.

During the second quarter following the completion of the audit, the customer may submit revised jurisdictional factor(s) to be used by the Telephone Company to apportion traffic for which it does not have sufficient call detail beginning the following quarter. If the revised jurisdictional factor(s) represent a deviation of 5% or more from the audited results and the deviation is not due to identifiable reasons, the Telephone Company may initiate a new audit request, as described above.

2.3.16 Trouble Determination

(A) The IC shall be responsible for receiving trouble reports from its End Users and determining, by testing or other means, if the source of trouble is caused by the equipment or facilities provided by the IC, its End User, or by the Telephone Company.

(B) When more than one Telephone Company service is used to provide service to an IC, the IC is responsible for determining which service provided by the Telephone Company is causing the reported trouble.

(C) The IC shall be responsible for payment of Maintenance of Service Charges as set forth in 13.3.1, 13.6.1, 13.9.1, 13.12.1 and 13.15.1 following when reporting trouble to the Telephone Company and the obligations in (A) and (B) preceding are not met.

2.4 Payment Arrangements and Credit Allowances

2.4.1 Payment of Rates, Charges and Deposits

(A) The Telephone Company may, in order to safeguard its interests, require an IC which has a proven history of late payments to the Telephone Company or does not have established credit with the Telephone Company except for an IC which is a successor of a company which has established credit with the Telephone Company and has no history of late payments to the Telephone Company, to make a deposit prior to or at any time after the

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2. General Regulations (Cont'd)

2.3 Obligations of the IC (Cont'd)

2.3.15 Determination of Interstate Charges for Mixed Interstate and Intrastate Access Service (Cont'd)

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

The interstate percentage will change as revised usage reports are submitted as set forth in 2.3.14 preceding.

2.3.16 Trouble Determination

(A) The IC shall be responsible for receiving trouble reports from its End Users and determining, by testing or other means, if the source of trouble is caused by the equipment or facilities provided by the IC, its End User, or by the Telephone Company.

(B) When more than one Telephone Company service is used to provide service to an IC, the IC is responsible for determining which service provided by the Telephone Company is causing the reported trouble.

(C) The IC shall be responsible for payment of Maintenance of Service Charges as set forth in 13.3.1, 13.6.1, 13.9.1, 13.12.1 and 13.15.1 following when reporting trouble to the Telephone Company and the obligations in (A) and (B) preceding are not met.

2.4 Payment Arrangements and Credit Allowances

2.4.1 Payment of Rates, Charges and Deposits

(A) The Telephone Company may, in order to safeguard its interests, require an IC which has a proven history of late payments to the Telephone Company or does not have established credit with the Telephone Company except for an IC which is a successor of a company which has established credit with the Telephone Company and has no history of late payments to the Telephone Company, to make a deposit prior to or at any time after 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)

(A) (Cont'd)

provision of a service to the IC to be held by the Telephone Company as a guarantee of the payment of rates and charges. Such deposit may not exceed the actual or estimated rates and charges for the service for a two month period plus the amount of any termination charges attributable to the service. The fact that a deposit has been made in no way relieves the IC from complying with the Telephone Company's regulations as to advance payments as set forth in 5.4.3 following or the prompt payment of bills. At such time as the provision of the service to the IC is terminated, the amount of the deposit will be credited to the IC's account and any credit balance which may remain will be refunded. At the option of the Telephone Company, such a deposit may be refunded or credited to the IC's account when the IC has established credit or an acceptable record of payment at any time prior to the termination of the provision of the service to the IC. In case of a cash deposit, for the period the deposit is held by the Telephone Company, the IC will receive simple annual interest at the rate of: Iowa, 12% per annum; Minnesota, 6% per annum; Nebraska, 6% per annum; North Dakota, 6% per annum; South Dakota, 7% per annum, unless a different rate has been established by the appropriate legal authority within the state. Should a deposit be credited to the IC's account, as indicated above, no interest will accrue on the deposit from the date such deposit is credited to the IC's account.

(B) The Telephone Company shall bill on a current basis all charges incurred by and credits due to the IC 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 an End User or IC for Access

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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)

Service under this tariff), the period of service each bill covers and the payment date will be as follows:

(1) For End User 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 Service and Presubscription Service charges for the ensuing billing period except for End User Service and Presubscription Service for the Federal Government which will be billed in arrears. Any known unbilled charges for prior periods and any known unbilled adjustments for prior periods for End User Service and Presubscription Service will be applied to this bill. Such bills are due when rendered.

(2) For Service other than End User Service and Presubscription Service, the Telephone Company will establish a bill day each month for each IC account. The bill will cover nonusage sensitive service charges for the ensuing billing period for which the bill is rendered, any known unbilled nonusage sensitive charges for prior periods and unbilled usage charges for the period after the last bill day thru 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 are 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.

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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) (Cont'd)

For bill days in January 1984, the bill will cover nonusage sensitive service charges for the ensuing billing period, the nonusage sensitive service charges for the period from January 1, 1984 thru the bill day, usage charges for the period from January 1, 1984 thru the bill day and any known adjustments for the calendar month of January 1984. Such bills are due as set forth in (3) following. If payment is not received on 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 IC 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 IC as follows:

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

ACCESS SERVICE

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)

(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 IC actually makes the payment to the Telephone Company, or

(II) 0.000657 per day, compounded daily for the number of days from the payment date to and including the date that the IC actually makes the payment to the Telephone Company.

(c) In the event that a billing dispute concerning a charge billed to the IC 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 billing dispute is resolved in favor of the IC, no late payment penalty will apply to the disputed amount.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(C) When a payment for Access Service Charges billed under this Tariff is due to the Telephone Company from the IC 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 IC from the Telephone Company as set forth in 8.2.3 following, the Telephone Company may, with at least 31 days notice to the IC, net the payment for IC Access Service Charges with the net purchase amount. The Telephone Company will pay the net amount to the IC on the payment date when such net amount is due to the IC or require the IC to pay to the Telephone Company the net ampunt 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 (E)(3) preceding, whichever is appropriate, applies.

(D) Adjustments for the quantities of services established or discontinued in any billing period bayond 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 an IC bill for services provided under the provisions of this tariff is furnished to the IC, an additional charge applies for each additional copy of the bill as set forth in 13.3.6, 13.6.6, 13.9.6, 13.12.6 and 13.15.6 following.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.2 Minimum Periods

The minimum periods for which services are provided and for which rates and charges are applicable are as set forth in 5., 8. and 9. following for the services involved.

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.

When a service is discontinued prior to the expiration of the minimum period, charges are applicable for the remaining portion of the minimum period, whether the service is used or not, and will be based on the rates in effect for the service at the time of discontinuance.

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 IC or End User because of a failure of a facility component used to furnish service under this tariff. An interruption period starts when an inoperative service is reported to the Telephone Company by the IC or End User 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 IC or End User, shall be as follows:

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(1) For services, other than those mentioned in (2) and (6) following, no credit shall be allowed for an interruption of less than 24 hours. The IC or End User shall be credited for an interruption of 24 hours or more at the rate of 1/30 of the monthly charge for the service for each period of 24 hours or major fraction thereof that the interruption continues from the time of notice to the Telephone Company that an interruption has occurred.

(2) For Program Audio Service and Video Service provided at daily rates, no credit shall be allowed for an interruption of less than 30 seconds. The IC or End User shall be credited for an interruption of 30 seconds or more at the rate of 1/288 of the daily charge for the facility for each 5 minutes or fraction thereof that an interruption continues from the time of notice to the designated Telephone Company operating center that an interruption has occurred. Two or more such interruptions occurring during a period of 5 consecutive minutes shall be considered as one interruption.

(3) Credit allowances for interruptions to Switched Access Service and Directory Assistance Service apply only to the applicable monthly rates and minimum monthly usage charges.

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(5) For certain Special Access services (Wideband Digital, WD1-4; 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.

(6) 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 IC or End User.

(2) Interruptions of a service due to the failure of equipment or systems provided by the IC, End User 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 during any period when the IC or End User has released a service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(5) Interruptions of a service which continue because of the failure of the IC or End User to authorize replacement of any element of special construction, as set forth in this Company's TARIFF F.C.C. NO. 51 for Special Construction. The period for which no credit allowance is made begins on the seventh day after the IC or End User 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 IC's or End User's written authorization for such replacement.

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

(7) Interruptions caused by the failure of other Telephone Company provided services which are connected by the IC at its terminal location or by the End User at its premises.

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(E) Temporary Surrender of a Service

In certain instances, the IC 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 IC consents, a credit allowance will be granted. The credit allowance will be 1/30 of the monthly rate for each period of 24 hours 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 Services Included in Netting

Payment for services obtained by an IC under the provisions of this tariff, except for services set forth in 3. following, and Tariff F.C.C. No. 51 for Special Construction, when Billing Processing Service and/or Private Line Billing Service is provided by the Telephone Company to the IC, will be included in the netting of accounts receivable as set forth in 8.2.3 following when the IC has been notified by the Telephone Company.

2.4.6 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 occurence.

(2) The service is for the same IC or End User.

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.6 Re-establishment of Service Following Fire, Flood or Other Occurrence (Cont'd)

(A) Nonrecurring Charges Do Not Apply (Cont'd)

(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.

2.4.7 Title or Ownership Rights

(A) The payment of rates and charges by ICs or End Users 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.

(B) Title or ownership rights to Specialized Service or Arrangements designed by the Telephone Company to meet an IC's or End User's request remain with the Telephone Company except as specifically provided for by written agreement of all parties.

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.8 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) or (B) following. The choice of either (A) or (B) shall be made by the Telephone Company and the Telephone Company will notify the IC which option will apply when the IC orders Access Service. The choice of (A) or (B) will be based on the interconnection arrangements between the two Exchange Telephone Companies involved.

(A) When an Access Service is ordered by an IC where one end of the Transport element (i.e., Special Transport, Local Transport or Directory Transport, as appropriate) is in one Exchange Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, except for Access Services provided with the use of Hubs (multiplexing or bridging), the Exchange Telephone Company in whose territory the End User serving wire center is located will accept the order for the Access Service from the IC. That Exchange Telephone Company will then determine the charges involved, arrange to provide the Access Service ordered and bill the charges in accordance with its Access Service tariff.

When an Access Service provided with the use of a Hub (multiplexing or bridging) is ordered by an IC, the Exchange Telephone Company in whose territory the Hub is located will accept the order for the Access Service from the IC. That Exchange Telephone Company will then determine the charges involved, arrange to provide the Access Service ordered and bill the charges in accordance with its Access Service tariff.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) When an Access Service is ordered by an IC where one end of the Transport element (i.e., Special Transport, Local Transport, or Directory Transport, as appropriate) is in one Exchange Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, both Exchange Telephone Companies will accept the order for the Access Service from the IC. Each Exchange Telephone Company will provide its portion of the Transport element from the serving wire center in its operating territory to a mutually agreed upon border interconnection point with the other 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. Title page not withstanding, the mileage used to determine the Transport element will be the mileage measured from the serving wire center in the first Exchange Telephone Company operating territory to the serving wire center in the second 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 mile band rate and the mileage measured for the two serving wire centers multiplied by the mileage from the Exchange Telephone Company's serving wire center to the mutually agreed upon border interconnection point and divided by the sum of the mileage from the first Telephone Company serving wire center to the border interconnection point and the mileage from the second Telephone Company serving wire center to the border interconnection point. All other appropriate charges in each Exchange Telephone Company's tariff are applicable.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections

2.5.1 General

Equipment and Systems (i.e., terminal equipment, multiline terminating systems and communications systems) may be connected with Access Service (Switched and Special) furnished by the Telephone Company where such connection is made in accordance with the provisions specified in this section and in 2.1 preceding.

Equipment and systems subject to Part 68 of the F.C.C. Rules and Regulations (Registration Program) will be connected in accordance with 2.5.4 and 2.5.5 following. Equipment and systems not subject to the Registration Program will be connected in accordance with 2.5.7 and 2.5.8 following.

Connection may be made at the point of interface at the IC terminal location or the network interface at the End User location. The Telephone Company will furnish and maintain its service components in a manner suitable for the service being furnished. The Telephone Company is not responsible for:

- The through transmission of signals generated by IC or End User provided equipment and systems or for the quality of, or defects in, such transmission.
- The reception of signals by IC or End User provided equipment and systems.
- Address signaling performed by IC or End User provided equipment and systems.

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.2 Responsibilities of the IC or End User

When an IC or End User connects equipment or systems to a service, it is responsible for the proper installation, operation and maintenance of the connected equipment or systems, and is also responsible for compliance with Part 68 of the F.C.C. Rules and Regulations and/or minimum protection criteria as set forth in 2.5.10 following.

ICs or End Users are also responsible for complying with the regulations set forth in (A) and (B) following.

(A) Compatibility with the Service

The IC or End User is responsible for the compatibility of the equipment or system with the service to which it is connected, as set forth in (1) and (2) following. This responsibility applies at the initial installation and on a continuing basis for the duration of the connection.

(1) Interface Information

The IC or End User must specify the type of facility interface (including signaling) which is required. If data transmission is involved, the IC must also specify the type of data conditioning required.

The Telephone Company publishes Technical References which the IC or End User can obtain as an aid in selecting the appropriate service and feature arrangements.

(2) Interference and Hazard

The operating characteristics of the equipment or system connected to a service must not interfere with, or impair, any of the services offered by the Telephone Company. In addition, they must not endanger the safety of Telephone Company employees or the public; damage or interfere with the functioning of Telephone Company equipment, or services; or otherwise injure the public in its use of these services.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.2 Responsibilities of the IC or End User

When an IC or End User connects equipment or systems to a service, it is responsible for the proper installation, operation and maintenance of the connected equipment or systems, and is also responsible for compliance with Part 68 of the F.C.C. Rules and Regulations and/or minimum protection criteria as set forth in 2.5.10 following.

ICs or End Users are also responsible for complying with the regulations set forth in (A) and (B) following.

(A) Compatibility with the Service

The IC or End User is responsible for the compatibility of the equipment or system with the service to which it is connected, as set forth in (1) and (2) following. This responsibility applies at the initial installation and on a continuing basis for the duration of the connection.

(1) Interface Information

The IC or End User must specify the type of facility interface (including signaling) which is required. If data transmission is involved, the IC must also specify the type of data conditioning required.

The Telephone Company publishes Technical References which the IC or End User can obtain as an aid in selecting the appropriate service and feature arrangements.

(2) Interference and Hazard

The operating characteristics of the equipment or system connected to a service must not interfere with, or impair, any of the services offered by the Telephone Company. In addition, they must not endanger the safety of Telephone Company employees or the public; damage or interfere with the functioning of Telephone Company equipment, or services; or otherwise injure the public in its use of these services.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.2 Responsibilities of the IC or End User (Cont'd)

(B) Maintenance of Service

The IC is responsible for payment of Maintenance of Service Charges, as set forth in 13.3.1, 13.6.1, 13.9.1, 13.12.1 and 13.15.1 following, when the conditions enumerated in that section are present.

(C) Violation of Regulations

If any of these connection regulations are violated, the Telephone Company will take action to protect its services and will promptly notify the IC or End User of the violation. After receiving such notice, the IC or End User must discontinue such use of the equipment and/or system, or correct the violation and confirm in writing by an authorized representative that the correction has been made. This confirmation must be received by the Telephone Company at the address shown at the bottom of Page 1 preceding within ten days after the IC or End User has received notification of the violation. If the IC or End User does not correct the violation, or does not provide the required written confirmation to the Telephone Company within ten days, service will be suspended until such time as the IC or End User does comply. Extraordinary procedures as set forth in 2.5.9 (B) following may be invoked, if warranted.

2.5.3 Responsibilities of the Telephone Company

In addition to furnishing and maintaining its service components to the specifications of the service ordered, the Telephone Company will:

(A) Make technical information pertaining to service interfaces available (i.e., Technical Advisories, Technical Publications, etc.) as an aid to the IC or End User in selecting the appropriate interface.

(B) Furnish any service interface information required by Part 68 of the FCC's Rules and Regulations (e.g., the number of ringers that may be supported by a particular service).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.3 Responsibilities of the Telephone Company (Cont'd)

(C) Test and maintain only that service or equipment which it provides if an interruption or impairment occurs on a service.

(D) Not be responsible to any party if a change in its Minimum Protection Criteria, service components or procedures affects any facilities, equipment or systems provided by others in any way, or requires their modification in order to be used. However, if such changes can be reasonably expected to materially affect the operating or transmission characteristics of the service or render any IC or End User provided equipment or system incompatible with the service, the Telephone Company will make a reasonable effort to notify the IC or End User in writing of the proposed change. A reasonable interval will be allowed before the change is implemented to enable the IC or End User to maintain compatibility of its equipment or system with the service.

2.5.4 Connections of Equipment and Systems Subject to the Registration Program

All terminal equipment, protective circuitry and multiline terminating systems that are registered may be connected at the IC or End Users premises to Category I or III Access Services as specified in (B) and (C) following.

(A) Registration Program

The Registration Program was established by the FCC so that terminal equipment, protective circuitry and multiline terminating systems could be registered in accordance with prescribed rules to demonstrate they will not cause harm to Telephone Company services.

(For simplicity, such equipment, protective circuitry or system will be referred to as "registered equipment" in this section). The FCC's regulations regarding the Registration Program are contained in Part 68 of the FCC's Rules and Regulations (hereafter referred to as the Registration Program). If equipment is registered in accordance with the Registration Program, then it may be connected to those Access Services within the scope of the Registration Program without the requirement for protective circuitry.

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.4 Connections of Equipment and Systems Subject to the Registration Program (Cont'd)

(A) Registration Program (Cont'd)

The Registration Program also includes a "grandfathered" provision for terminal equipment, protective circuitry and multiline terminating systems that are directly connected to those Access Services within the scope of the Registration Program. (For simplicity, such equipment, protective circuitry or system will be referred to as "grandfathered equipment".) This provision means that equipment, protective circuitry or system which was lawfully connected to a service without a Telephone Company provided connecting arrangement as of certain dates is considered grandfathered. (See 2.5.5 following.)

(B) Connections To Access Service

Registered equipment may be directly connected, using Telephone Company provided standard jacks, at the IC terminal location or End User premises. Special Access Services have been classified as Category I, II or III. The category is determined by the type of service and the type of equipment connected to it. There are specific regulations for each service category which must be complied with when connecting equipment to those services. Regulations governing Category I and III Special Access Services are set forth in (C) following. Regulations governing Category II Access Services are set forth in 2.5.7 following.

(C) Conditions Governing the Connection of Registered Equipment

Registered equipment may be directly connected at the IC terminal location or the End User's premises, subject to the Registration Program, provided that:

(1) All combinations of registered equipment and associated nonregistered terminal equipment (including but not limited to wiring) are installed, operated and maintained so that the rules of the Registration Program are continually satisfied.

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.4 Connections of Equipment and Systems Subject to the Registration Program (Cont'd)

(C) Conditions Governing the Connection of Registered Equipment (Cont'd)

(2) The following notification requirements are met:

(a) Before connecting the registered equipment to a service, the IC or End User must verify the following information and furnish it to the Telephone Company upon request or as required:

- Registration Number.
- Ringer Equivalence and the type of ringer.
- Type of Telephone Company provided standard jack required for the connection.
- Access Services to which the registered equipment will be connected.
- Information concerning the premises wiring associated with multiline terminating systems (when required).
- OPS class (i.e., Type A, B or C port) for which the equipment is registered (when an off-premises station service is involved).
- Appropriate facility interface information for a Category III Access Service.

(b) The IC or End User must also notify the Telephone Company when the registered equipment is permanently disconnected.

(3) The Ringer Equivalence of the equipment or system in combination with the total Ringer Equivalence of other equipment connected to the same Access Service does not exceed the allowable maximum of five or as otherwise determined by the Telephone Company.

(4) The ringer type is designated by the Telephone Company as suitable for that particular Access Service.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.4. Connections of Equipment and Systems Subject to the Registration Program (Cont'd)

(C) Conditions Governing the Connection of Registered Equipment (Cont'd)

(5) All connections of registered equipment or systems to Access Services furnished by the Telephone Company are made through Telephone Company provided standard registration program jacks, as provided for in 13.3.4, 13.6.4, 13.9.4, 13.12.4 and 13.15.4 following except that (a) registered multiline terminating systems may be connected through jacks wired in other than a standard manner when agreed to by the Telephone Company, or (b) IC or End User provided equipment and systems which involve hazardous or inaccessible locations may be directly connected to Access Service furnished by the Telephone Company when those locations are authorized to be connected to local exchange service under tariffs filed with appropriate regulatory agencies.

(D) Premises Wiring

Premises wiring is used to connect separately housed equipment entities or system components to one another. Premises wiring can be used in an equipment room; to connect stations together; or to connect the stations to common equipment. Premises wiring in the nature of an equipment cord is also used to connect equipment entities or system components to the point of interface at the IC terminal location or the network interface at the End User location.

Premises wiring rules are specified in Part 68 of the F.C.C.'s Rules and Regulations. A registered multiline terminating system may be directly connected to Access Service provided its premises wiring conforms to one of the following classifications and to Part 68 of the F.C.C.'s Rules and Regulations.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.4 Connections of Equipment and Systems Subject to the Registration Program (Cont'd)

(D) Premises Wiring (Cont'd)

(1) Fully-Protected Premises Wiring

Fully-Protected Premises Wiring is premises wiring which is:

(a) No greater than 25 feet in length (measured linearly between the points where it leaves equipment or connector housings) and registered as a component of and supplied to the user with the registered equipment or protective circuitry with which it is to be used.

(b) A cord which complies with (a) preceding and which is extended once by a registered connectorized extension cord. Extension cords may not be used as a substitute for wiring which for safety reasons should be affixed to or embedded in a building's structure.

(c) Wiring located in an equipment room with restricted access, provided that this wiring remains exposed for inspection and is not concealed or embedded in the building's structure, and that it conforms to Part 68 of the F.C.C.'s Rules and Regulations.

(d) Electrically behind registered equipment, system components or protective circuitry which assure that electrical contact between the wiring and commercial power wiring or earth ground will not result in hazardous voltages or excessive longitudinal imbalance at the Access Service interface.

(2) Partially-Protected Premises Wiring Requiring Acceptance Testing for Imbalance

Premises wiring which is electrically behind registered equipment, system components or circuitry which assure

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Conn'd)

2.5.4 Connections of Equipment and Systems Subject to the Registration Program (Cont'd)

(D) Premises Wiring (Cont'd)

(2) Partially-Protected Premises Wiring Requiring Acceptance Testing for Imbalance (Cont'd)

that electrical contact between the wiring and commercial power wiring will not result in hazardous voltages at the Special Access Service interface.

(3) Unprotected Premises Wiring

Unprotected Premises Wiring is all other premises wiring.

(4) Premises Wiring Used with Telephone Company Provided Multiline Terminating Systems

When the Telephone Company installs and maintains all premises wiring used with its multiline terminating systems, it will assume the responsibility to assure that the regulations pertaining to premises wiring under the Registration Program are continually met.

(5) Premises Wiring Used with IC or End User Provided Multiline Terminating Systems

When an IC or End User provided multiline terminating system uses Fully Protected Premises Wiring (as defined in the Registration Program) no further action regarding wiring is required. However, when an IC or End User elects to install, connect, reconfigure or remove other than Fully Protected Premises Wiring, the appropriate institutional controls specified in the Registration Program must be followed. These controls are not applicable when the prededing activities are accomplished functionally using a fully protected cross-connect panel or when the entire multiline terminating system is removed.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.4 Connections of Equipment and Systems Subject to the Registration Program (Cont'd)

(D) Premises Wiring (Cont'd)

(5) Premises Wiring Used with IC or End User Provided Multiline Terminating Systems (Cont'd)

(a) Institutional Controls

Institutional controls require that:

I At least ten days advance notice must be given to the Telephone Company in the form of a notarized affidavit before placement and connection of the premises wiring. (This time period may be changed by agreement of the Telephone Company and the installation supervisor.) A copy of the affidavit must also be maintained at the IC's or End User's premises.

II If the premises wiring being installed is classified as unprotected, the work must be supervised by an installation supervisor who has been trained by the equipment manufacturer, received written authority to install their equipment and has at least six months experience in this type of work. A licensed professional engineer (as specified in Part 68 of the F.C.C.'s Rules and Regulations) may also supervise the work but does not have to meet these requirements. In either of the above cases the Telephone Company must be provided with a notarized affidavit.

III If the premises wiring being installed is classified as partially protected, the work must be supervised by an installation supervisor who has at least six months experience in this type of work. However, the

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.4 Connections of Equipment and Systems Subject to the Registration Program (Cont'd)

(D) Premises Wiring (Cont'd)

(5) Premises Wiring Used with IC or End User Provided Multiline Terminating Systems (Cont'd)

(a) Institutional Controls (Cont'd)

III. (Cont'd)

supervisor is not required to be trained by or have written authority from the equipment manufacturer. A licensed professional engineer may also supervise the work but does not have to meet these requirements. In either of the above cases the Telephone Company must be provided with a notarized affidavit.

IV For other than fully protected multiline terminating systems, an installation supervisor or licensed professional engineer may submit an application for a blanket affidavit number to the Telephone Company(s) within each state in lieu of individual affidavits. This blanket affidavit number will be assigned on a yearly basis by each Telephone Company. Prior to each installation thereafter, this blanket affidavit number must be submitted to the Telephone Company. The blanket affidavit number only covers that equipment which has been supported by documentation to the Telephone Company.

(b) Extraordinary Procedures:

The Telephone Company may invoke the extraordinary procedures as set forth in Part 68 of the F.C.C. Rules and Regulations for Premises Wiring when one or more of the following conditions are present:

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.4 Connections of Equipment and Systems Subject to the Registration Program (Cont'd)

(D) Premises Wiring (Cont'd)

(5) Premises Wiring Used with IC or End User Provided Multiline Terminating Systems (Cont'd)

(b) Extraordinary Procedures (Cont'd)

- Information provided in the aforementioned affidavit gives reason to believe that a violation of the Registration Program is likely.

- A failure has occurred during acceptance testing for longitudinal imbalance.

- Harm has occurred, and there is reason to believe that this harm was a result of wiring operations performed under the Registration Program.

(E) Connection of IC or End User Provided Test Equipment

(1) Direct Electrical Connection

(a) IC or End User provided test equipment may be connected to an Access Service (Category I or III) at the IC's or End User's premises through registered or grandfathered terminal equipment, multiline terminating system or protective circuitry which either singularly or in combination assures that all of the requirements of the Registration Program (total protection) are met at the Access Service interface.

Connection of IC or End User provided test equipment that does not provide protection against excessive signal power must be made in accordance with the Interim Program for the connection of IC or End User Provided Test Equipment.

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2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.4 Connections of Equipment and Systems Subject to the Registration Program (Cont'd)

(E) Connection of IC or End User Provided Test Equipment (Cont'd)

(1) Direct Electrical Connection (Cont'd)

(b) IC or End User provided test equipment may be connected to a Category II Access Service at the IC's or End User's premises on a direct electrical basis, or through terminal equipment or multiline terminating system, provided the test equipment meets the specified Minimum Protection Criteria at the point of interface or network interface.

(2) Interim Program* for the Connection of IC or End User Provided Test Equipment

IC or End User provided test equipment may also be connected to Access Service (Category I or III) at the IC's or End User's premises either directly at the point of interface or network interface, or through a multiline terminating system, terminal equipment or protective circuitry which does not provide protection for signal power control, if the connection is made in accordance with the following Interim Program:

(a) The test equipment is limited to transmission signal power generating and/or detection devices, or similar devices, utilized by the IC or End User for the detection and/or isolation of a communications service fault.

* The Interim Program for the Connection of IC or End User Provided Test Equipment, unless sooner canceled or changed, will remain in effect until a permanent program is adopted by the F.C.C. a result of Part 68 Rulemaking in CC Docket No. 81-216, 85 F.C.C.2d 868 (1981).

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2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.4 Connections of Equipment and Systems Subject to the Registration Program (Cont'd)

(E) Connection of IC or End User Provided Test Equipment (Cont'd)

(2) Interim Program* for the Connection of IC or End User Provided Test Equipment (Cont'd)

(b) The test equipment is of a type that was lawfully directly connected to a service as of March 6, 1981. Such test equipment may remain connected, be moved or reconnected during the life of the test equipment unless it is subsequently modified.

(c) Direct connections of IC or End User provided test equipment or connections through Telephone Company provided terminal equipment or a multiline terminating system must be made through Telephone Company provided jacks or as otherwise authorized by the Telephone Company.

(d) The test equipment must be operated in accordance with the Institutional Procedures for Control of Signal Power set forth in 2.5.9 following. Automatic test equipment utilizing responders (or their functional equivalent) must be installed, operated and maintained so as to comply with the signal power specifications in Bell System Technical Advisory No. 17 and Bell System Technical Reference Pub. 60101.

(e) The IC or End User must notify the Telephone Company of each service at each premises to which the IC or End User provided test equipment will be connected in

* The Interim Program for the Connection of IC or End User Provided Test Equipment, unless sooner canceled or changed, will remain in effect until a permanent program is adopted by the F.C.C. as a result of Part 68 Rulemaking in CC Docket No. 81-216, 85 F.C.C.2d 868 (1981).

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.4 Connections of Equipment and Systems Subject to the Registration Program (Cont'd)

(E) Connection of IC or End User Provided Test Equipment (Cont'd)

(2) Interim Program* for the Connection of IC or End User Provided Test Equipment (Cont'd)

(e) (Cont'd)

advance of the initial connection. The IC or End User must also notify the Telephone Company when such test equipment is permanently disconnected at each premises.

(f) The IC or End User provided test equipment, either singularly or in combination with terminal equipment, multiline terminating system or protective circuitry (including but not limited to wiring), may not cause electrical hazards to Telephone Company personnel, damage to Telephone Company equipment, malfunction of Telephone Company billing equipment, or degradation of service to persons other than the user of the test equipment or the user's calling or called party.

* The Interim Program for the Connection of IC or End User Provided Test Equipment, unless sooner canceled or changed, will remain in effect until a permanent program is adopted by the F.C.C. as a result of Part 68 Rulemaking in CC Docket No. 81-216, 85 F.C.C.2d 868 (1981).

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2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.5 Connections of Grandfathered Equipment and Systems to Category I or Category III Access Services

(A) Direct Connections

(1) Grandfathered Terminal Equipment, Multiline Terminating Systems and Protective Circuitry Connected to Category I Access Service

Grandfathered equipment may remain connected or be moved and reconnected to Category I Access Services for the life of the equipment without registration and may be modified only in accordance with Part 68 of the F.C.C.'s Rules and Regulations, if:

(a) the IC or End User provides the following information to the Telephone Company prior to reconnecting the grandfathered IC or End User provided equipment or system:

- Manufacturer's Name
- Model No.
- Type Equipment or System
- Description of the Interface
- Access Service(s) to which the equipment or system will be connected
- Information concerning the premises wiring associated with a multiline terminating system (when required).

(b) all connections are made through Telephone Company provided standard registration program jacks unless the Telephone Company agrees to an alternate type of connection.

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.5 Connections of Grandfathered Equipment and Systems to Category I or Category III Access Services (Cont'd)

(A) Direct Connections (Cont'd)

(1) Grandfathered Terminal Equipment, Multiline Terminating Systems and Protective Circuitry Connected to Category I Access Service (Cont'd)

(c) all such connections comply with the minimum protection criteria set forth in 2.5.10 following.

(d) no changes are made to equipment or systems so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.

(e) the IC or End User must notify the Telephone Company when the grandfathered equipment or system is permanently disconnected.

(f) the premises wiring, associated with grandfathered multiline terminating system which was installed after June 1, 1978 and connected to Category I Access Services is moved and reconnected, conforms to Part 68 of the F.C.C.'s Rules and Regulations.

At the IC's or End User's option grandfathered equipment or systems may be connected to Category II Access Services.

(2) Grandfathered Terminal Equipment, Multiline Terminating Systems and Protective Circuitry Connected to Category III Access Services

Grandfathered equipment may be connected to Category III Access Services in accordance with (i)(a) through (e) preceding and the following:

(a) Equipment directly connected to Category III Access Services on or before April 30, 1980 is grandfathered and may remain connected and be moved and reconnected for the life of the equipment without registration and may be modified only in accordance with Part 68 of the F.C.C.'s Rules and Regulations.

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.5 Connections of Grandfathered Equipment and Systems to Category I or Category III Access Services (Cont'd)

(A) Direct Connections (Cont'd)

(2) Grandfathered Terminal Equipment, Multiline Terminating Systems and Protective Circuitry Connected to Category III Access Services (Cont'd)

(a) (Cont'd)

Premises wiring associated with grandfathered multiline terminating systems that are moved and reconnected must comply with Part 68 of the F.C.C.'s Rules and Regulations.

(b) When IC or End User provided multiline terminating systems are connected to Category III Access Services the IC or End User must specify the appropriate access service interface information. In addition, when the Access Service is arranged for off-premises station operation, the IC or End User must specify the OPS class of the equipment as specified in Part 68 of the F.C.C.'s Rules and Regulations (i.e., Type A, B, or C port) or the range of the station port in ohms.

(3) Additions to Grandfathered Multiline Terminating Systems

Additions to grandfathered multiline terminating systems may be made without registration of any additional equipment involved, if:

(a) equipment so added to Category I Access Service is being reconnected, i.e., was previously directly connected to the telecommunications network or Category I Access Services prior to January 1, 1980, or

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2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.5 Connections of Grandfathered Equipment and Systems to Category I or Category III Access Services (Cont'd)

(A) Direct Connections (Cont'd)

(3) Additions to Grandfathered Multiline Terminating Systems (Cont'd)

(b) equipment so added to Category III Access Service was (1) connected prior to May 1, 1983, and is of a type directly connected to Category III Access Services as of April 30, 1980, or (2) being reconnected, i.e., was previously connected to Category III Access Services prior to May 1, 1983.

(c) any premises wiring added conforms to Part 68 of the F.C.C.'s Rules and Regulations.

(B) Connections through Grandfathered Protective Connecting Arrangements Provided by the Telephone Company

(1) General

When IC or End User provided terminal equipment or multiline terminating systems that are not registered or grandfathered are connected to Category I or Category III Access Services, protection is required. The protection can be provided through registered or grandfathered protective circuitry or through Telephone Company provided Protective Connecting Arrangements as set forth in 13.3.7, 13.6.7, 13.9.7, 13.12.7 and 13.15.7 following.

Grandfathered connecting arrangements will be provided by the Telephone Company to connect IC or End User provided terminal equipment or multiline terminating systems to Category I and Category III Access Services under the following conditions:

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.5 Connections of Grandfathered Equipment and Systems to Category I or Category III Access Services (Cont'd)

(B) Connections Through Grandfathered Connecting Arrangements Provided by the Telephone Company (Cont'd)

(1) General (Cont'd)

(a) Grandfathered connecting arrangements used to move and reconnect IC or End User provided terminal equipment or multiline terminating systems will continue to be provided by the Telephone Company, subject to their availability.

(b) Network control signaling is performed by equipment furnished, installed and maintained by the Telephone Company, except that IC or End User provided tone-type address signaling is permissible through a Telephone Company-provided connecting arrangement and signaling functions may be performed by IC or End User provided Conforming Answering Devices.

(c) The IC or End User provided equipment or system must comply with the minimum protection criteria as set forth in 2.5.10 following.

(d) When used for data transmission, the IC or End User furnishes the equipment which performs the function of data signaling conditioning.

When the IC or End User provided terminal equipment is used for both voice and data communications, the same connecting arrangement may be used.

(2) Category I

Telephone Company-provided grandfathered connecting arrangements will continue to be provided to reconnect IC or End User provided terminal equipment or multiline terminating systems which were previously connected to Category I Access Services through such connecting

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.5 Connections of Grandfathered Equipment and Systems to Category I or Category III Access Services (Cont'd)

(B) Connections through Grandfathered Connecting Arrangements Provided by the Telephone Company (Cont'd)

(2) Category I (Cont'd)

arrangements prior to the respective register only dates. (The register only dates are July 1, 1979, for terminal equipment, and January 1, 1980, for multiline terminating systems.) In addition, connecting arrangements which were installed prior to the respective register only dates, may remain connected for the life of the equipment and may be moved and reconnected.

(3) Category III

Connecting arrangements will be provided by the Telephone Company to connect IC or End User provided terminal equipment or multiline terminating systems to Category III access services under the following conditions:

(a) After May 1, 1983, Telephone Company-provided connecting arrangements will only be provided to reconnect IC or End User provided terminal equipment or multiline terminating systems which were previously connected, in accordance with Telephone Company tariffs, to Category III Access Services through connecting arrangements prior to May 1, 1983.

(b) Connections of IC or End User provided terminal equipment or multiline terminating systems made through Telephone Company-provided connecting arrangements in accordance with (a) preceding may remain connected and may be moved and reconnected for the life of the equipment and may be modified only in accordance with Part 68 of the F.C.C's Rules and

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.5 Connections of Grandfathered Equipment and Systems to Category I or Category III Access Services (Cont'd)

(B) Connections through Grandfathered Connecting Arrangements Provided by the Telephone Company (Cont'd)

(3) Category III (Cont'd)

(b) (Cont'd)

Regulations. Grandfathered connecting arrangements used for such moves and reconnections will continue to be provided by the Telephone Company subject to their availability.

In addition, prior to April 30, 1980, when terminal equipment or multiline terminating systems were connected to Category III Access Service which was not arranged for connection to the telecommunications network, the Telephone Company provided arrangements to protect against hazardous voltages, longitudinal imbalance and signal power overload as set forth in 2.5.7 (B) following.

The Telephone Company provided that protection on Category III voice grade Access Services until May 1, 1983, provided that:

- The terminal equipment or multiline terminating system is of a type which was so connected prior to April 30, 1980.
- The terminal equipment or multiline terminating system is not on the F.C.C.'s grandfather eligibility list.
- The Category III Access Service is not arranged for connection to the telecommunications network.

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2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.6 Connections Involving National Defense and Security

In certain cases involving national defense and security the Registration Program permits the connection of nonregistered terminal equipment or multiline terminating systems to an Access Service, if the Secretary of Defense or the head of any other Federal Government Department involved in national defense or security, the head of any other governmental department (having requisite F.C.C approval), or their authorized representative certifies in writing to the Telephone Company that:

(A) the connection is required in the interest of national defense and security;

(B) the equipment to be connected either complies with the technical requirements of the Registration Program or will not cause harm to the telecommunications network or Telephone Company employees; and

(C) the installation work is supervised by a person who meets the qualifications stated in the Registration Program.

2.5.7 Connections of Terminal Equipment or Multiline Terminating Systems to Category II Access Services

(A) General

Category II access services are those services which are not covered by Part 68 of the F.C.C.'s Rules and Regulations and are therefore not classified as Category I or III. Connections to Category II Access Services are set forth in (B) and (C) following.

(B) Connections to Category II Access Services

IC or End User provided terminal equipment or IC or End User provided multiline terminating systems may be directly connected without Telephone Company provided connecting arrangements to a Category II Access Service which is not

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.7 Connections of Terminal Equipment or Multiline Terminating Systems to Category II Access Services (Cont'd)

(B) Connections to Category II Access Services (Cont'd)

arranged for connection to the telecommunications network. The connection in such cases shall be to the Service Terminating Arrangement.

The Telephone Company will equip those voice grade Category II Access Services with the necessary arrangements on the IC or End User premises to protect the telecommunications network from hazardous voltages and the harmful effects of longitudinal imbalance. In addition, the Telephone Company will make the necessary arrangements in its central office to protect against signal power overload resulting from violations of the minimum protection criteria specified in paragraph 2.5.10 following. Where there is evidence that IC or End User provided terminal equipment or IC or End User provided systems violate the specified minimum protection criteria, signal level protection may be provided by the Telephone Company on the IC's or End User's premises. This regulation applies to all such voice grade access service except those placed in service on or after February 15, 1973 where the IC or End User provided terminal equipment or system applies ringing below 300 Hertz and to the voice grade services listed in (C) following.

(C) Minimum Protection Criteria

The minimum protection criteria as set forth in 2.5.10 following applies to the connection of terminal equipment, multiline terminating systems and communications systems connected to Category II Access Service.

At this time, minimum protection criteria have not been specified for the following services due to the nature of the service and/or the type of channels and equipment used. However, the Telephone Company reserves the right to specify such criteria if required.

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2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.7 Connections of Terminal Equipment or Multiline Terminating Systems to Category II Access Services (Cont'd)

(C) Minimum Protection Criteria (Cont'd)

- Narrow Band Access Service
- Voice Grade Secure Communications (Type I, II, III, IV)
- Voicegrade 2
- Program Audio
- Telephoto
- Remote operation of Mobile Radiotelephone and Radiotelegraph
- Wideband Digital
- Wideband Secure Communications (Type I, II, III)

2.5.8 Connections of Access Service to Communications Systems Not Subject to Part 68 of the F.C.C.'s Rules and Regulations

(A) When an IC or End User provided communications system is connected to Access Service that is arranged for connection to the telecommunications network, the connection may be made through:

(1) an arrangement provided by the Telephone Company, or

(2) registered or grandfathered terminal equipment, multiline terminating system, or protective circuitry which, either singularly or in combination, assures that all the requirements of the Registration Program (including signal power) are met at the access interface.

In lieu of these requirements for total hardware protection, an optional, alternative method, as set forth in 2.5.9 following, is available for the control of signal power only.

(B) Where the Access Service is arranged for connection to the common user switching equipment located in a Telephone Company central office, the connection must be:

(1) through switching equipment; or

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2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.8 Connections of Access Service to Communications Systems Not Subject to Part 68 of the F.C.C's Rules and Regulations (Cont'd)

(B) (Cont'd)

(2) to an IC or End User provided communications system that is arranged to promptly return the access service to an idle (on-hook) state should the communications system fail. In addition, the IC or End User must notify the Telephone Company when the communications system fails.

(C) Minimum Protection Criteria as set forth in 2.5.10 following must be complied with when the connection is made through equipment or systems that are not registered.

2.5.9 Institutional Procedures for Control of Signal Power

(A) Conditions

When IC or End User provided communications systems or test equipment are connected to Access Services (including 1.544 Mbps) that are arranged for telecommunications network access and the connection is through (1) a Telephone Company provided connecting arrangement, or (2) registered or grandfathered terminal equipment, multiline terminating system or protective circuitry which assures that all of the requirements of the Registration Program are met at the Access Service interface, no further action is required. However, when an IC or End User elects to connect a communications system or test equipment to Access Service and the registered or grandfathered equipment, system or protective circuitry through which the connection is made does not provide protection for control of signal power, the IC or End User must comply with the following institutional procedures:

(1) The operator/maintainer responsible for the establishment, maintenance and adjustment of the voice frequency signal power present at the Access Service interface must be trained to perform these functions by successfully completing one of the following:

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.9 Institutional Procedures for Control of Signal Power (Cont'd)

(A) Conditions (Cont'd)

(1) (Cont'd)

(a) a training course provided by the manufacturer of the equipment to control voice frequency signal power; or

(b) a training course provided by the IC or End User authorized representative, who has responsibility for the entire communications system, multiplexor, or test equipment, using training materials and instructions provided by the manufacturer of the equipment used to control the voice frequency signal power; or

(c) an independent training course (e.g., trade school or technical institution) recognized by the manufacturer of the equipment used to control the voice frequency signal power; or

(d) in lieu of the preceding training requirements, the operator/maintainer is under the control of a supervisor trained in accordance with (a) through (c) preceding.

Upon request, the IC or End User is required to provide the proper documentation to demonstrate compliance with the requirements set forth in (1) preceding.

(2) At least ten days advance notice must be given to the Telephone Company in the form of a notarized affidavit before the initial connection of the IC or End User provided communications system or test equipment. A copy of the affidavit must also be maintained at the IC's End User's premises. The affidavit must contain the following information:

(a) The full name, business address, business telephone number and signature of the IC or End User or authorized representative who has responsibility for the operation and maintenance of the communications system or test equipment.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.9 Institutional Prodedures for Control of Signal Power (Cont'd)

(A) Conditions (Cont'd)

(2) (Cont'd)

(b) The line(s) to which the communications system or test equipment will be connected or arranged to be connected.

(c) A statement that all operations associated with the establishment, maintenance and adjustment of the signal power present at the interface will comply with the Registration Program.

(d) A statement describing how each operator and/or maintainer of the communications system or test equipment will meet and continue to meet the training requirements for persons installing, adjusting or maintaining such equipment or systems.

(3) The IC or End User provided communications systems connected to 1.544 Mbps facilities must be installed, operated and maintained so that the 3-second average, rms (root mean square) equivalent analog signal power (within the frequency range of 200-4000 Hz) for each subrate channel at the circuit interface does not exceed -12dBm.

(B) Extraordinary Procedures

(1) The Telephone Company may invoke extraordinary procedures to protect the service if one or more of the following conditions are present:

- Information provided in the affidavit gives reason to believe that a violation of the Registration Program or the Institutional Procedures for Control of Signal Power is likely.

- Harm has occurred and there is reason to believe this harm was a result of operations performed under the Institutional Procedures for Control of Signal Power.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.9 Institutional Procedures for Control of Signal Power (Cont'd)

(B) Extraordinary Procedures (Cont'd)

(2) The extraordinary procedures, which can be invoked by the Telephone Company, include:

- Requiring the use of protective apparatus which either protects solely against signal power or which assures that all of the requirements of the Registration Program are met at the point of interface or the network interface. This protective apparatus may be provided by the Telephone Company, the IC or End User.

- Disconnecting Service.

(3) A charge equal to the Maintenance of Service charge as set forth in Section 13.3.1, 13.6.1, 13.9.1, 13.12.1 and 13.15.1 following will apply when:

- It is necessary to send a repairperson to the premises where the connection is made because a condition set forth in (1) preceding exists, and

- A failure to comply with the Registration Program or the Institutional Procedures for Control of Signal Power, is disclosed.

2.5.10 Minimum Protection Criteria for Direct Electrical Connections

(A) To prevent excessive noise and crosstalk in the telecommunications network, it is necessary that the power of the signal at the central office not exceed 12dB below one milliwatt when averaged over any three-second interval. To insure that this limit is not exceeded, the power of the signal which may be applied by the IC's or End User's facilities to the Telephone Company interface located at the IC or End User premises will be specified for each IC or End User premises, but in no case shall it exceed one milliwatt.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.10 Minimum Protection Criteria for Direct Electrical Connections (Cont'd)

(B) To protect other services from interference at frequencies which are above the band of service provided and to insure that the input to the service does not exceed the limits indicated, the Telephone Company will specify the acceptable signal power in the following bands to be applied by the equipment at the point of interface or network interface:

(1) Metallic Voltage

(a) 4 kHz to 270 kHz

Center Frequency (f) of 8 kHz Band	Maximum Voltage in All 8 kHz Bands	Metallic Terminating Impedance
8 kHz to 12 kHz	- (6.4+12.6 log f) dBV	300 ohms
12 kHz to 90 kHz	(23 - 40 log f) dBV	135 ohms
90 kHz to 266 kHz	- 55 dBV	135 ohms

(b) The root-mean-square (rms) value of the metallic voltage components in the frequency range of 270 kHz to 6 MHz shall, averaged over 2 microseconds, not exceed -15 dBV. This limitation applies with a metallic termination having an impedance of 135 ohms.

(2) Longitudinal Voltage

(a) 4 kHz to 270 kHz

Center Frequency (f) of 8 kHz Band	Maximum Voltage in All 8 kHz Bands	Longitudinal Terminating Impedance
8 kHz to 12 kHz	-(18.4+20 log f) dBV	300 ohms
12 kHz to 42 kHz	(3 - 40 log f) dBV	90 ohms
42 kHz to 266 kHz	- 62 dBV	90 ohms

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2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.10 Minimum Protection Criteria for Direct Electrical Connections (Cont'd)

(B) (Cont'd)

(2) Longitudinal Voltage (Cont'd)

(b) The root-mean-square (rms) value of the longitudinal voltage components in the frequency range of 270 kHz to 6 MHz shall, averaged over 2 microseconds, not exceed -30 dBV. This limitation applies with a longitudinal termination having an impedance of 90 ohms.

dBV = 20 log 10 voltage in volts

(C) To prevent the interruption or disconnection of a call, or interference with network control signaling, it is necessary that the signal applied by the IC's or End User's facilities to the Telephone Company interface located at the IC or End User premises at no time have energy solely in the 2450 to 2750 Hz band. If signal power is in the 2450 to 2750 Hz band, it must not exceed the power present at the same time in the 800 to 2450 Hz band.

(D) Where there is no connection to the telecommunications network, and the signal applied by the IC's or End User's facilities has energy solely in the 2675 to 2750 Hz band, the IC or End User shall coordinate the application of that signal with the Telephone Company.

(E) Where IC's or End User's facilities apply signals that have components in the frequency spectrum below 300 Hz, excluding ringing signals, the currents and voltages (including all harmonics and spurious signals) at the interface shall not exceed the following limits:

(1) The maximum root-mean-square (rms) value, including dc and ac components, of the current per conductor will be specified by the Telephone Company, but in no case will the specified value exceed 0.35 ampere.

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.10 Minimum Protection Criteria for Direct Electrical Connections (Cont'd)

(E) (Cont'd)

(2) The magnitude of the peak of the conductor to ground voltage shall not exceed 70 volts.

(3) The conductor to conductor voltage shall be such that the conductor to ground voltage limit set forth in (2) preceding is not exceeded. If the signal source is not grounded, the voltage limit in (2) above applies to the conductor to conductor voltage.

(4) The total weighted rms voltage within the band from 50 Hz to 300 Hz shall not exceed 100 volts. The total weighted rms voltage is the square root of the sum of the products of the weighting factors for the individual frequency components times the square of the rms voltage of the individual frequency components. The weighting factors are as follows:

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

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

(F) Where IC or End User provided data terminal equipment is connected to Special Access Services with data capability and used for baseband data transmission, the following limits shall not be exceeded. However, at specific bit rates of 2.4, 4.8 or 9.6 kbps, higher levels of transmission are permissible if a bipolar signal format specified by the Telephone Company is met. The bipolar signal format is necessary to limit intractable interference. The Telephone Company will provide the bipolar specifications upon request.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.10 Minimum Protection Criteria for Direct Electrical Connections (Cont'd)

(F) (Cont'd)

(1) The maximum root-mean-square (rms) value, including dc and ac components, of the current per conductor will not exceed 0.15 ampere.

(2) The magnitude of the peak of the conductor to ground voltage shall not exceed 70 volts.

(3) The conductor to conductor voltage shall be such that the conductor to ground voltage limit in (b) preceding is not exceeded. If the signal source is not grounded, the voltage limit in (b) preceding applies to the conductor to conductor voltage.

(4) The total weighted rms voltage within the band from 10 Hz to 10,000 Hz shall not exceed 100 volts. The total weighted rms voltage is the square root of the sum of the products of the weighting factors for the individual frequency components times the square of the rms voltage of the individual frequency components. The weighting factors are as indicated:

for frequencies between	weighting factor
10 Hz and 100 Hz	$f^2/10^4$
1000 Hz and 10,000 Hz	$f^{3.3}/10^{6.6}$

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

(5) The total voltage within the frequency band from 10,000 Hz to 25,000 Hz shall not exceed 0.05 volts rms.

(6) The total voltage within the frequency band from 25,000 Hz to 40,000 Hz shall not exceed 0.012 volts rms.

(7) The total voltage within the frequency band above 40,000 Hertz shall not exceed 0.0025 volts rms.

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.10 Minimum Protection Criteria for Direct Electrical Connections (Cont'd)

(F) (Cont'd)

(8) The foregoing signal level restrictions are based upon multiple disturbers being present in a given cable. When several services employing baseband data transmission are keyed simultaneously, the signal limits stipulated in (d) through (g) preceding must be reduced by multiplying the voltage signal limits by a factor of 1/ N, where N is the expected number of transitions occurring simultaneously.

2.5.11 Recording of Twerway Telephone Conversations

The F.C.C. has adopted regulations which apply to the recording of two-way telephone conversations on the telecommunications network. These regulations also apply to Switched Access Service.

(A) Direct Electrical Connection

IC or End User provided voice recording equipment may be used to record two-way telephone conversations if a distinctive recorder tone is repeated at intervals of approximately fifteen seconds. This distinctive recorder tone is required when the recording equipment is in use and is electrically connected with services of the Telephone Company. The distinctive recorder tone can be provided as part of (1) the recordding equipment, (2) the IC or End User provided registered or grandfathered protective circuitry, or (3) a grandfathered connecting arrangement provided by the Telephone Company.

The IC or End User provided voice recording equipment must be arranged so that it can be connected or disconnected (or switched on or off) at will.

(Filed in compliance with an Order of the F.C.C. adopted May 20, 1948, in Docket No. 6787).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.11 Recording of Two-way Telephone Conversations (Cont'd)

(B) Exceptions to the Requirement for the Recorder Tone

The distinctive recorder tone is not required:

(1) When used by an F.C.C. licensed broadcast station customer for recording of two-way conversation solely for broadcast over the air. (Filed in compliance with an Order of the F.C.C. adopted December 13, 1972.)

(2) When used by the United States Secret Service of the Department of the Treasury for recording two-way telephone conversations which concern the safety and security of the President of the United States, members of the President's immediate family, or the White House and its grounds. (Filed in compliance with an Order of the F.C.C. adopted January 22, 1975.)

(3) When used by a broadcast network or by a cooperative programming effort composed exclusively of F.C.C. licensees to record two-way telephone conversations solely for broadcast over the air by a licensed broadcast station. (Filed in compliance with an Order of the F.C.C. adopted December 18, 1975.)

(4) When used for recording at United States Department of Defense Command Centers of emergency communications transmitted over the Department of Defense's private line network when connected to Long Distance Message Telecommunications Service, WATS or local Telephone Exchange Service. (Filed in compliance with an Order of the F.C.C. adopted May 19, 1976.)

(5) When used by the United States Nuclear Regulatory Commission of the Department of Energy for recording of two-way telephone conversations at its Operations Centers. (Filed in compliance with an Order of the F.C.C. adopted January 29, 1981.)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.11 Recording of Two-way Telephone Conversations (Cont'd)

(C) Acoustic or Inductive Connections

IC or End User provided voice recording equipment may not be connected to a service for the recording of two-way telephone conversations by means of an acoustic or inductive connection unless its use qualifies under the regulations "Exceptions to the Requirement for the Recorder Tone" as set forth in (B) preceding.

2.5.12 Connection to a High Capacity (HC1) Facility

Terminal equipment, a multiline terminating system or a communications system which does not have the capability to transmit signals with encoded analog content via an HC1 facility to the telecommunications network or to a Category I or III Access Service may be directly connected to the point of interface or the network interface of the circuit. All other connections to a HC1 facility are also made at the point of network interface and must be made in accordance with the following regulations.

(A) Connection of Terminal Equipment - Terminal equipment may be connected to a HC1 facility through, or in combination with, channel derivation equipment. If the connection provides the capability to transmit signals with encoded analog content via the HC1 facility to the telecommunications network or to a Category I or III Access Service, it must be connected in accordance with the Registration Program, or Interim Program as set forth in (C) and (D) following.

In addition, when voice-band data terminal equipment is used with the channel derivation equipment, the voice-band data terminal equipment must comply with Part 68 of the F.C.C.'s Rules and Regulations to insure continued billing integrity.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.12 Connection to a High Capacity (HC1) Facility (Cont'd)

(B) Connection of a Multiline Terminating System and Channel Derivation Equipment - A multiline terminating system and/or channel derivation equipment may be connected to a HC1 facility. If the connection provides the capability to transmit signals with encoded analog content via the HC1 facility to the telecommunications network or to a Category I or a Category III Access Service, it must be connected in accordance with the Registration Program, or Interim Program as set forth in (C) and (D) following.

(C) Registration Program - A Petition for Rulemaking to modify Part 68 of the F.C.C.'s Rules and Regulations (Registration Program) to include certain connections to HC1 facilities has been filed with the F.C.C. To accommodate connections during the pendency of that rulemaking, the Telephone Company has established the following Interim Program.

(D) Interim Program - Terminal equipment and multiline terminating systems of a type listed on the Interim Program Summary may be connected at the IC's or End User's premises to a HC1 facility. (A copy of the Interim Program Summary is available from the F.C.C., Room BB300, Washington, D.C. 20554.)

(1) Equipment and systems may be added to the Interim Program Summary in one of the following ways:

(a) By being directly connected to any Telephone Company provided HC1 service, facility or circuit as of March 17, 1983.

(b) When the manufacturer of the terminal equipment or multiline terminating system submits a notarized affidavit to the F.C.C., Chief, Domestic Services Branch, Room BB300, Washington, D.C. 20554, attesting to the following:

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.12 Connection to a High Capacity (HC1) Facility (Cont'd)

(D) (Cont'd)

(1) (Cont'd)

(b) (Cont'd)

- The equipment or system meets the proposed technical requirements for connections to an HC1 service, facility or circuit. The technical requirements are those that have been proposed to the F.C.C. for inclusion in Part 68 of the Rules by the F.C.C./Industry Ad Hoc Task Group on Digital Interfaces. (Copy available from the Federal Communications Commission, Room 8B300, Washington, D.C. 20554.)

- The equipment or system complies with the requirements of the Bell System Technical Reference Publication 41451.

(2) Until expiration of the Interim Program, terminal equipment and multiline terminating systems that are listed on the Interim Program Summary may be connected to an HC1 facility.

(3) Any terminal equipment or multiline terminating system connected pursuant to this Interim Program may require modification in response to Part 68 of the Rules adopted in CC Docket No. 81-216 or RM 4087.

(4) Terminal equipment and multiline terminating systems that are connected under the Interim Program may remain connected and be moved and reconnected for the life of the equipment or system, except as may be required in response to Part 68 of the Rules adopted in CC Docket No. 81-216 or RM 4087.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.12 Connection to a High Capacity (HC1) Facility (Cont'd)

(D) (Cont'd)

(5) The Telephone Company may invoke extraordinary procedures to protect an HC1 facility. The extraordinary procedures applied will be the same as those for connection of a communications system to an Access Service as set forth in 2.5.9 (B) preceding.

(6) The Interim Program will expire on adoption of final F.C.C. Rules in RM 4087, unless sooner canceled, changed or extended.

(E) Connection of a Communications System - an IC or End User provided communications system and associated channel derivation equipment, if any, may be connected to an HC1 facility. If the connection provides the capability to transmit signals with encoded analog content via the HC1 facility to the telecommunications network or to a Category I or Category III Access Service, it must be connected in accordance with the Institutional Procedure for Control of Communications System Signal Power.

In addition, when voice-band data terminal equipment is used with the IC or End User provided communications system, the voice-band data terminal equipment must comply with Part 68 of the F.C.C.'s Rules and Regulations to insure continued billing integrity.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.13 Connection to Wideband Analog Access Service

(A) Connections

Terminal equipment, a multiline terminating system or a communications system may be directly connected to the Service Terminating Arrangement of a Wideband Analog Access Service if the signals transmitted by such equipment and presented at the interface do not exceed the signal levels specified under the Minimum Protection Criteria section following. If the signals transmitted exceed these signal levels, the Telephone Company will take action to protect its services.

(B) Minimum Protection Criteria

The Minimum Protection Criteria for Wideband Analog Access Service are as follows. Signals presented at the point of interface or the network interface of these channels must not exceed the following transmitting power levels:

	WA1	WA2
(1) Average Long-Term Power, simultaneously with (3) below, measured over a 30-second interval	-5 dBm0	+2 dBm0
(2) Instantaneous Peak Power (.01% of the time)	+17 dBm0	+19 dBm0
(3) Power in any 4 kHz segment over a three second interval	-13 dBm0	-13 dBm0
(4) Out-of-band power	No greater than inband power density	
(5) Single frequency tones	-13 dBm0	-13 dBm0

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Answer/Disconnect Supervision

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

Assumed Average Access Minutes

The term "Assumed Average Access Minutes" denotes the usage that will be billed each month to ICs for Feature Group A, B or E access arrangements served from Telephone Company serving end offices where actual recorded minutes of use are not available.

Attenuation Distortion

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

Average Business Day

The term "Average Business Day" denotes 8:00AM to 11:00PM, Monday through Friday, excluding national holidays.

Balance (100 Type) Test Line

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

Bit

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

Busy Hour Minutes of Capacity

The term "Busy Hour Minutes of Capacity" denotes the average of the highest time consistent hour of usage during the highest twenty consecutive business day period during a calendar year.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Call

The term "Call" denotes an IC or End User 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

The term "Carrier or Common Carrier" denotes any individual, partnership, associations, joint-stock company, trust or corporation engaged for hire in interstate or foreign communication by wire or radio.

Category I

The term "Category I" denotes the Special Access Services that are equivalent to the services that are defined in Part 68.2 (a) (2) of the F.C.C.'s Rules and Regulations.

Category II

The term "Category II" denotes Access Services not covered by Part 68 of the F.C.C.'s Rules and Regulations. These services includs those Access Services where protection is incidentally supplied in the normal provision of the service.

Category III

The term "Category III" denotes the Special Access Services that are equivalent to the services that are defined in Part 68.2 (a) (3) of the F.C.C.'s Rules and Regulations.

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).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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.

Central Office Prefix

The term "Central Office Prefix" denotes the first three digits (NXX) of the seven digit telephone number assigned to an End User'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.

Channelize

The term "Channelize" denotes the process of multiplexing/demultiplexing voice channels using analog or digital techniques.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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.

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 telephone 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 and which may be used to make and receive exchange service calls, intrastate message service calls or interstate message service calls no matter if the Customer causes the line, trunk or facility to be arranged to prohibit any type of calls to be made or received. 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.

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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.

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.

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 an IC or End User are due on a bill prepared by the Telephone Company.

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Directory Assistance (Interstate)

The term "Directory Assistante" denotes the provision of telephone numbers by a Telephone Company operator when the operator location is accessed by an End User by dialing (NPA) 555-1212.

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 interface with the IC to the local exchange end office). An office arranged for Dual Tone Multifrequency Signaling would expect to receive address signals from the IC in the form of Dual Tone Multifrequency signals.

Echo Control

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

Echo Path Loss

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

Echo Return Loss

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

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.

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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 End User premises or central office, but not at the IC point of interface. However, when terminated 2-wire, simultaneous independent transmission cannot be supported.

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 individual, partnership, association, corporation, governmental agency or any other entity which (A) obtains a common line or uses a pay telephone in the operating territory of the Telephone Company, or (B) subscribes to interstate service(s) provided by an IC or uses the services of the IC when the IC provides interstate service(s) for its own use.

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).
[ELEPL = EPL - TLP (send) + TLP (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 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.

Exchange Carrier

The term "Exchange Carrier" denotes any partnership, association, corporation or any other entity which provides local telephone exchange service by use of a common line or dedicated line for use within its operating territory.

Facilities

The term "Facilities" denotes any cable, fiber optics, poles, conduit, microwave or carrier equipment, wire center distribution frames, central office switching equipment, computers (both hardware and software), business machines, etc., utilized to provide (1) the services offered under this tariff, or (2) the services provided by an IC for its own use or for an IC End User's use.

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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 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 IC terminal location 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 IC terminal location.

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.

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

IC Terminal Location

The term "IC Terminal Location" denotes the point at which Access Service connects to the IC's interstate telecommunications service.

Impedance Balance

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

Impulse Noise

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

Individual Case Basis

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

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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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).

Interstate Customer(s)

The term "Interstate Customer(s)" denotes any individual, partnership, association, corporation, or governmental agency or any other entity, which subscribes to the services offered under this tariff to provide interstate telecommunications services for its own use or for the use of its customers (End Users).

Interstate and Foreign Communications

The term "Interstate and Foreign Communications" denotes any communications subject to F.C.C. oversight as provided under the Communications Act of 1934, as amended, and the F.C.C.'s Rules and Regulations.

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.

Jointly Used Subscriber Plant

The term "Jointly Used Subscriber Plant" denotes the local non-traffic sensitive Telephone Exchange Service facilities furnished in connection with Switched Exchange Access provided to an IC to complete an interstate call via an IC's intercity network to or from Telephone Exchange Service locations.

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.

ACCESS SERVICE

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 by the Telephone Company for the provision and administration of communications service. It encompasses 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 in an end office which provides a means for making two-way transmission tests on a manual basis. This arrangement has two terminations, each reached by means of a separate seven-digit number.

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 IC terminal location from the Telephone Company end office.

ACCESS SERVICE

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.

Network Interface

The term "Network Interface" denotes the point of demarcation on the End User's premises at which the Telephone Company's responsibility for the provision of Access Services end.

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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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 to an IC terminal location.

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 Interface

The term "Point of Interface" denotes a point of demarcation, at the IC terminal location, between Telephone Company provided and IC provided services.

Premises

The term "Premises" denotes a building or portion(s) of a building occupied by a single IC or End User either as a place of business or residence. Adjacent buildings and the buildings on the same continuous property, occupied by the IC or End User not separated by a public thoroughfare, are also considered the IC or End User's premises.

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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 IC's or the IC's 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.

Service Terminating Arrangement

The term "Service Terminating Arrangement" denotes equipment furnished by the Telephone Company which is utilized for the termination of Telephone Company provided Access Service. Such "Service Terminating Arrangement" provides a clearly delineated interface which facilitates the design, isolation, and testing of the Access Service where the service is connected with IC or End User provided communications systems.

Seven Digit Manual Test Line

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

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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 or an order for a Directory Assistance Service.

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 terminal location to an End User.

ACCESS SERVICE

2 General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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.

Transmission Performance

The term "Transmission Performance" denotes the immediate action limits beyond which the Telephone Company will accept an IC's trouble report and take corrective action.

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.

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Trunk-Side Connection

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

Two-Wire to Four-Wire Conversion

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

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.

ACCESS SERVICE

3. Carrier Common Line Access Service

3.1 General Description

Carrier Common Line Access Service provides for the use of Telephone Company common lines by ICs for the access to End Users to furnish IC interstate or foreign telecommunications service.

3.2 Regulations, Rates and Charges

Regulations, Rates and Charges for Carrier Common Line Access Service are the same as those set forth in Section 3. of the Exchange Carrier Association Tariff F.C.C. No. 1.

ACCESS SERVICE

4. End User Access Service

The Telephone Company will provide End User Access Service (End User Access) to End Users who obtain local telephone exchange service from the Telephone Company under its general and/or local exchange tariffs.

4.1 General Description

End User Access provides for the use of an End User Common Line (EUCL) by an End User to make and receive interstate calls.

4.2 Limitations

(A) A telephone number is not provided with End User Access.

(B) Detail billing is not provided with End User Access.

(C) Directory listings are not included with End User Access.

(D) Intercept arrangements are not included with End User Access.

4.3 Undertaking of the Telephone Company

The Telephone Company will provide use of an EUCL at rates and charges as set forth in 4.7, 4.8, 4.9, 4.10 and 4.11 following, as follows:

(A) Use of an EUCL by an End User for access to Interstate Access Services provided under this tariff. Such use will be provided when the End User obtains local telephone exchange service and includes the use of the line between the End User premises and the central office which normally serves the End User premises.

(B) The Telephone Company will be responsible for contacts and arrangements with End Users for EUCL charges.

4.4 Obligations of the End User and the IC

(A) The End User, when it orders local telephone exchange service, authorizes the Telephone Company to provide End User Access except for local telephone exchange service where a waiver of the End User Access charges has been granted by the F.C.C.

(B) The End User shall be responsible for all contacts, arrangements and charges with the IC or other entity concerning the services or arrangements accessed or terminated by the EUCL.

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.5 Payment Arrangements and Credit Allowances

(A) Minimum Period

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

(B) Cancellation of Application

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

(C) Changes to Orders

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

(D) Allowance for Interruptions

When there is an interruption to an EUCL provided for the use of an End User, the credit allowance for interruptions regulations as set forth under the general and/or local exchange service tariffs apply.

(E) Temporary Suspension of Service

When an End User temporarily suspends its local exchange service which is associated with EUCL the full monthly rate of the EUCL will remain in effect.

(F) Payments, Refusal and Discontinuance of Service

Provisions for payments, refusal and discontinuance of an EUCL for an End User will be the same dates, times and procedures as specified in the general and/or local exchange tariffs for the associated local telephone exchange service.

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.6 Rate Regulations

(A) EUCL per month charges will be billed to the End User of the associated local telephone exchange service.

(B) For each local telephone exchange service provided as residential service under the general and/or local exchange service tariffs, the EUCL Residence-Individual-Line or trunk rate as set forth in 4.7 following applies.

(C) For business Centrex and Centrex-like service lines or trunks installed or on order prior to July 27, 1983 and Centrex Dormitory (Residence) Service, the EUCL Residential-Individual line or trunk rate as set forth in 4.7 following applies.

(D) For each local telephone exchange service provided as a multiparty service under the general and/or local exchange service tariffs, each party is deemed to be a user of an EUCL and the EUCL Residence or Business-party rate, as appropriate, as set forth in 4.7 following applies.

(E) For each local telephone exchange service provided as semi-public service under the general and/or local exchange service tariffs, the EUCL Residence or Business-Semi-public rate, as appropriate, as set forth in 4.7 following applies.

(F) For each local telephone exchange service provided under the general and/or local exchange service tariffs other than those specified in (B), (C), (D) and (E) preceding, the EUCL Business-Individual line or trunk rate as set forth in 4.7 following applies.

4.7 Rates and Charges for the State of Iowa

The rates for End User Access are:

(A) End User Common Line (EUCL) - Residence

	USOC	Rates Per Month 1-1-84 through 12-31-84
- Individual line or trunk, each	9ZR	
- Two-party, each party	9ZR	

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.7 Rates and Charges for the State of Iowa (Cont'd)

(B) End User Common Line (EUCL) - Business

	USOC	Rates Per Month 1-1-84 through 12-31-84
- Individual line or trunk, each	9ZR	
- Semi-public line, each	9ZR	

4.8 Rates and Charges for the State of Minnesota

The rates for End User Access are:

(A) End User Common Line (EUCL) - Residence

	USOC	Rates Per Month 1-1-84 through 12-31-84
- Individual line or trunk, each	9ZR	
- Two-party, each party	9ZR	
- Four-party, each party	9ZR	

(B) End User Common Line (EUCL) - Business

	USOC	Rates Per Month 1-1-84 through 12-31-84
- Individual line or trunk, each	9ZR	
- Two-party, each party	9ZR	
- Semi-public line, each	9ZR	

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.9 Rates and Charges for the State of Nebraska

The rates for End User Access are:

(A) End User Common Line (EUCL) - Residence

	USOC	Rates Per Month 1-1-84 through 12-31-84
- Individual line or trunk, each	9ZR	
- Two-party, each party	9ZR	
- Eight-party, each	9ZR	

(B) End User Common Line (EUCL) - Business

	USOC	Rates Per Month 1-1-84 through 12-31-84
- Individual line or trunk, each	9ZR	
- Semi-public line, each	9ZR	

4.10 Rates and Charges for the State of North Dakota

The rates for End User Access are:

(A) End User Common Line (EUCL) - Residence

	USOC	Rates Per Month 1-1-84 through 12-31-84
- Individual line or trunk, each	9ZR	$ 2.00
- Two-party, each party	9ZR	1.89
- Four-party, each party	9ZR	1.59

(B) End User Common Line (EUCL) - Business

	USOC	Rates Per Month 1-1-84 through 12-31-84
- Individual line or trunk, each	9ZR	$ 6.00
- Two-party, each party	9ZR	5.60
- Semi-public line, each	9ZR	6.00

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.11 Rates and Charges for the State of South Dakota

The rates for End User Access are:

(A) End User Common Line (EUCL) - Residence

	USOC	Rates Per Month 1-1-84 through 12-31-84
- Individual line or trunk, each	9ZR	
- Two-party, each party	9ZR	
- Four-party, each party	9ZR	
- Eight-party, each	9ZR	

(B) End User Common Line (EUCL) - Business

	USOC	Rates Per Month 1-1-84 through 12-31-84
- Individual line or trunk, each	9ZR	
- Two-party, each party	9ZR	
- Semi-public line, each	9ZR	

ACCESS SERVICE

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 and Planned Facilities 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 IC with Switched Access Service or Special Access Service or to provide changes to existing services. A Planned Facilities Order is an order to make facilities available on an established activation date for an IC's future Access Service needs.

For purposes of ordering Access Service, an End User who orders Access Service will be considered to be an IC and will be required to provide the same information that a non-End User IC must provide when placing an order.

5.1.1 Ordering Conditions

An IC may order any number of services of the same type (e.g., Feature Group, Interface Group, facility type, etc.), between the same locations, (e.g., the IC terminal location an end office, Hub or End User premises; two IC terminal locations; an End User premises and a WATS serving office, etc.) on a single Access Order or Planned Facilities Order.

The IC shall supply all the necessary information to provide service, e.g., IC name and terminal location, end user name and location, facility interface, etc. All details for a particular order must be identical except for those for multipoint service. The minimum order requirements are set forth in 5.2 and 5.4 following.

Orders for Feature Group A Switched Access Service must be in multiples of 30 busy hour minutes of capacity.

Dedicated Access Line Special Access Service must be ordered for use with a Feature Group C or D Switched Access Service which is in service or on order.

ACCESS SERVICE

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 Engineering, Additional Labor, Restoration Priority and Special Facilities Routing may be ordered with an Access Order or Planned Facilities Order as additional features at the time the order is accepted by the Telephone Company. 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 or Planned Facilities 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 or the activation date for the Planned Facilities. When added subsequently, charges for order modifications as set forth in 5.2.2 or 5.4.5 following will apply.

5.1.3 Special Construction

Special Construction is not an ordering option, but may be applied to either an Access Order or a Planned Facilities Order to accommodate an IC request. When special construction is required, the IC will be so notified. If the IC agrees to the special construction, a firm order will be established. If the IC does not want the service or facilities after being notified that special construction is required, the order will be withdrawn and no charges will apply.

The regulations, rates and charges for special construction are set forth in Northwestern Bell Telephone Company Tariff F.C.C. No. 51 and are in addition to the regulations, rates and charges specified in this section.

5.2 Access Order

An Access Order is used by the Telephone Company to provide to an IC Access Service as follows:

ACCESS SERVICE

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

5.2 Access Order (Cont'd)

- 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 IC must provide, at a minimum, the following information:

- For Switched Access Service, the IC must specify the number of busy hour minutes of capacity (BHMC) from the IC terminal location to the end office by Feature Group and by type of BHMC. In addition, for Feature Group A, the IC must specify whether the ordered capacity is for foreign dial tone service, second dial tone service or switched private network service. This information is forwarded to the Circuit Administration Center (CAC) for networking design, then back to the IC for specifying the Interface Group, Supervisory Signaling and Local Switching options.

  Although not included in Section 6., Switched Access Service, Directory Assistance Service is ordered in the same manner as Switched Access Service and requires the same information.

- For all Special Access Services, except Dedicated Access Line Service, the IC must specify the IC terminal location and End User premises or Hub, the type of service (e.g. Narrowband 1, Voice Grade 3, High Capacity 1, etc.) and the facility interface combination. When ordering to a Hub, no interface combinations are required but Hub functions must be specified. For multipoint services, the facility interface at each End User premises may be different but they must all work in combination with a common facility interface at the IC terminal location.

  For Dedicated Access Line Special Access Service, the IC must specify the End User premises, the type of facility (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 End User serving wire center, the IC may specify, with the agreement of the Telephone Company, a specific foreign serving wire center where capacity exists.

  The IC must always specify how Special Access Service is to be used so that the Telephone Company may determine the appropriate application of the Special Access Service Surcharge. The surcharge, and its applications are described in 7.4.2 following.

ACCESS SERVICE

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

5.2 Access Order (Cont'd)

The Telephone Company shall determine whether special construction charges apply and will so notify the IC prior to establishing a firm order.

5.2.1 Access Order Service Date Intervals

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

- Standard Interval
- Negotiated Interval
- Short Notice 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 IC's requested interval, subject to the following conditions:

(A) Standard Interval

The Telephone Company shall publish, and make available to all ICs, a schedule of Standard Intervals applicable for Switched and Special Access Services. This schedule shall specify which services and the quantities of services that can be provided within the standard intervals.

Access Services provided in a Standard Interval will be installed during normally scheduled Telephone Company work hours. If an IC requests that installation be done outside of scheduled work hours, and the Telephone Company agrees to this request, the IC will be subject to applicable Additional Labor Charges as set forth in 13.2.6 (A), 13.5.6 (A), 13.8.6 (A), 13.11.6 (A), and 13.14.6 (A) following.

ACCESS SERVICE

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)

(B) Negotiated Interval

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

(1) There is no Standard Interval for the service and the Short Notice Interval is not applicable, or

(2) The IC requests a service date beyond the applicable Standard Interval service date.

The Telephone Company will offer a service date based on the type and quantity of services the IC has requested. The Negotiated Interval may not exceed by more than 30 days the Standard Interval service date, or, when there is no Standard Interval, the Telephone Company offered service date.

When the Negotiated Interval is shorter than that which the Telephone Company originally offered, additional charges, including but not limited to special construction charges and charges set forth in 13. following for Additional Engineering and Additional Labor, may also apply.

All part-time Television and Program Audio services are provided with a Negotiated Interval. Each service is subject to a service inquiry. The service inquiry process determines the feasibility of the desired service date.

ACCESS SERVICE

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)

(C) Short Notice Interval

(1) The following types of Access Service will be available to an IC on a Short Notice Interval:

(a) Access Service required for short term Regional, National and International Special Events, including sports and entertainment, news coverage and conventions, or

(b) Access Service required for the Government for Command and Control Communications and National Security and Emergency Preparedness.

(2) Access Service required for the Government will be provided on the date requested, or as soon thereafter as possible, when the emergency falls into one of the following categories:

(a) State of crisis declared by the National Command (includes commitments made to the "National Plan Authorities for Emergencies and Major Disasters"), or

(b) Efforts to protect endangered U.S. personnel or property both in the U.S. and abroad (includes space vehicle recovery and protection efforts), or

(c) Communication requirements resulting from hostile action or a major disaster or civil disturbance, or

ACCESS SERVICE

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)

(C) Short Notice Interval (Cont'd)

(2) (Cont'd)

(d) The Director (Cabinet Level) of a Federal Department, Commander of a Unified/Specified Command, or Head of a Military Department has certified that a communications requirement is so critical to the protection of life and property or to the National Defense that it must be processed immediately, or

(e) Political unrest in foreign countries which affects the National Interest, or

(f) Presidential Service.

(3) For Short Notice Interval Access Orders, the nonrecurring charge is two times the appropriate nonrecurring charges for the service provided as set forth in other sections of this tariff.

5.2.2 Access Order Modifications

An Access Order may be modified by the IC prior to the service date as set forth following. One or more of the following charges will apply when such modifications are undertaken. When modifications are undertaken, the Telephone Company may specify that the service date will be changed. 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 busy hour minutes of capacity will be treated as a new Access Order (for the increased amount only).

ACCESS SERVICE

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)

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

(A) Service Date Change Charge

(1) For the State of Iowa

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 IC 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. With the agreement of the Telephone Company, a new service date may be established that is prior to the original standard or negotiated interval service date.

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

	USOC	Charge
Service Date Change Charge, per order		

If the service date is changed to an earlier date, an Expedited Order Charge as set forth in (D) following will apply in addition to the Service Date Change Charge.

ACCESS SERVICE

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)

(2) For the State of Minnesota

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 IC 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. With the agreement of the Telephone Company, a new service date may be established that is prior to the original standard or negotiated interval service date.

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

	USOC	Charge
Service Date Change Charge, per order		

If the service date is changed to an earlier date, an Expedited Order Charge as set forth in (D) following will apply in addition to the Service Date Change Charge.

(3) For the State of Nebraska

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 IC 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. With the agreement of the Telephone Company, a new service date may be established that is prior to the original standard or negotiated interval service date.

ACCESS SERVICE

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)

(3) For the State of Nebraska (Cont'd)

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

	USOC	Charge
Service Date Change Charge, per order		

If the service date is changed to an earlier date, an Expedited Order Charge as set forth in (D) following will apply in addition to the Service Date Change Charge.

(4) For the State of North Dakota

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 IC 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. With the agreement of the Telephone Company, a new service date may be established that is prior to the original standard or negotiated interval service date.

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

	USOC	Charge
Service Date Change Charge; per order	OMC	$13.06

If the service date is changed to an earlier date, an Expedited Order Charge as set forth in (D) following will apply in addition to the Service Date Change Charge.

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)

(5) For the State of South Dakota

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 IC 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. With the agreement of the Telephone Company, a new service date may be established that is prior to the original standard or negotiated interval service date.

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

	USOC	Charge
Service Date Change Charge, per order		

If the service date is changed to an earlier date, an Expedited Order Charge as set forth in (D) following will apply in addition to the Service Date Change Charge.

(B) Partial Cancellation Charge

Any decrease in the number of ordered Special Access Service channels or Switched Access Service busy hour minutes of capacity will be treated as a partial cancellation.

ACCESS SERVICE

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)

(B) Partial Cancellation Charge (Cont'd)

An IC may cancel any number of Special Access Services. For Switched Access Service busy hour minutes of capacity, the amount cancelled cannot cause the order to drop below the minimum requirements as set forth in 5.1.1 preceding and 5.5 following. When the capacity cancelled brings the ordered capacity below these minimum requirements, the entire order will be cancelled.

A Cancellation Charge will apply on a per order per occurrence basis for the quantity cancelled. The applicable Cancellation Charge is computed as set forth in 5.2.3 following.

(C) Design Change Charge

The IC may request a design change to the service ordered. A design change is any change to an Access Order which requires engineering review. A design change may 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 facility interface, type of facility or type of Access Connection Interface Group. It may not include a change of IC terminal location, End User premises, and office switch or Feature Group type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate charges applied. The Design Change Charge will apply to all Special Access Service channels or Switched Access Service busy hour minutes of capacity.

The Telephone Company will review the requested change, notify the IC whether the change can be accommodated and specify if a new service date is required. If the IC authorizes the Telephone Company to proceed with the design change, a Design Change Charge will apply. If the change involves the addition or deletion of optional features for which nonrecurring charges are stated, the Design Change Charge is equal to one half the

ACCESS SERVICE

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)

nonrecurring charge for each feature being added or deleted. When there is no nonrecurring charge associated with the change being made, the Design Change Charge is equal to one half of the nonrecurring charges for the Access Service ordered. If multiple changes are made on a single order, some of which have separately stated nonrecurring charges and others which do not, both of the above charges will apply. The Design Change Charge will apply on a per order, per occurrence basis.

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, an IC may request a service date that is prior to the standard interval service date. An IC may also request an earlier service date on a pending standard or negotiated interval Access Order. If the Telephone Company agrees to provide service on the requested date, an Expedited Order Charge will apply.

To calculate the Expedited Order Charge, the total of all the nonrecurring charges associated with the order is divided by the number of days in the service date interval. The charge is then applied on a per day (i.e., calendar day) of improvement basis, per order.

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.

When expediting causes the Telephone Company to incur extraordinary costs that are not recovered by the Expedited Order Charge, the IC will be billed, on an individual case basis, an amount equal to the costs incurred in lieu of an Expedited Order Charge.

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)

(E) Other Modification Charge

(1) For the State of Iowa

Modifications other than those described in (A), (B), (C) and (D) preceding, may be requested by the IC. If the modification can be accommodated and implemented by the Telephone Company, an Other Modification Charge will apply on a per order, per occurrence basis.

Some of the types of modifications for which this charge will apply include, but are not limited to, the following:

- Change of billing address
- Change of telephone number
- Change in Hunt Group Arrangement
- Change in Nonhunting Number of Hunt Group Arrangement
- Change of Jurisdiction (i.e., breakdown between intrastate and interstate minutes of use for Switched Access Services)

Other Modification Charge, per order	USOC	Charge

(2) For the State of Minnesota

Modifications other than those described in (A), (B), (C) and (D) preceding, may be requested by the IC. If the modification can be accommodated and implemented by the Telephone Company, an Other Modification Charge will apply on a per order, per occurrence basis.

Some of the types of modifications for which this charge will apply include, but are not limited to, the following:

ACCESS SERVICE

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)

(E) Other Modification Charge (Cont'd)

(2) For the State of Minnesota (Cont'd)

- Change of billing address
- Change of telephone number
- Change in Hunt Group Arrangement
- Change in Nonhunting Number of Hunt Group Arrangement
- Change of Jurisdiction (i.e., breakdown between intrastate and interstate minutes of use for Switched Access Services)

Other Modification Charge, per order	USOC	Charge

(3) For the State of Nebraska

Modifications other than those described in (A), (B), (C) and (D) preceding, may be requested by the IC. If the modification can be accommodated and implemented by the Telephone Company, an Other Modification Charge will apply on a per order, per occurrence basis.

Some of the types of modifications for which this charge will apply include, but are not limited to, the following:

- Change of billing address
- Change of telephone number
- Change in Hunt Group Arrangement
- Change in Nonhunting Number of Hunt Group Arrangement
- Change of Jurisdiction (i.e., breakdown between intrastate and interstate minutes of use for Switched Access Services)

Other Modification Charge, per order	USOC	Charge

ACCESS SERVICE

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)

(E) Other Modification Charge (Cont'd)

(4) For the State of North Dakota

Modifications other than those described in (A), (B), (C) and (D) preceding, may be requested by the IC. If the modification can be accommodated and implemented by the Telephone Company, an Other Modification Charge will apply on a per order, per occurrence basis.

Some of the types of modifications for which this charge will apply include, but are not limited to, the following:

- Change of billing address
- Change of telephone number
- Change in Hunt Group Arrangement
- Change in Nonhunting Number of Hunt Group Arrangement
- Change of Jurisdiction (i.e., breakdown between intrastate and interstate minutes of use for Switched Access Services)

	USOC	Charge
Other Modification Charge, per order	ONC	$13.06

(5) For the State of South Dakota

Modifications other than those described in (A), (B), (C) and (D) preceding, may be requested by the IC. If the modification can be accommodated and implemented by the Telephone Company, an Other Modification Charge will apply on a per order, per occurrence basis.

Some of the types of modifications for which this charge will apply include, but are not limited to, the following:

ACCESS SERVICE

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)

(E) Other Modification Charge (Cont'd)

(5) For the State of South Dakota (Cont'd)

- Change of billing address
- Change of telephone number
- Change in Hunt Group Arrangement
- Change in Nonhunting Number of Hunt Group Arrangement
- Change of Jurisdiction (i.e., breakdown between intrastate and interstate minutes of use for Switched Access Services)

	USOC	Charge
Other Modification Charge, per order		

5.2.3 Cancellation of an Access Order

(A) An IC 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 IC that the order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. If an IC or an End User is unable to accept Access Service within 30 calendar days of the original service date, the IC has the choice of the following options:

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

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)

(A) (Cont'd)

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

(B) Access Order costs are considered to have started when the Telephone Company incurs any cost in connection therewith or in preparation thereof which would not otherwise have been incurred. These costs include but are not limited to preliminary engineering, orders to suppliers and other similar items of cost. For purposes of determining Cancellation Charges, the costs are considered to have started on the order date (i.e., the day the Telephone Company gives a firm order confirmation to the IC).

(C) When an IC cancels an Access Order for the installation of service, a Cancellation Charge will apply on a per order basis. The Cancellation Charge is calculated by multiplying the total of the nonrecurring charges associated with all items on the Access Order by the number of calendar days elapsed since the order date and dividing that figure by the number of days in the service interval (i.e., the number of days between the order date and the service date). The resulting amount is the Cancellation Charge. When determining the charge for a partial cancellation as set forth in 5.2.2(B) preceding, only those nonrecurring charges associated with the portion of the order being cancelled are used in computing the charge.

(D) When an IC cancels an order for the discontinuance of service, no charges apply for the cancellation.

ACCESS SERVICE

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

5.2 Access Order (Cont'd)

5.2.4 Selection Of Planned Facilities For Access Orders

(A) When there are facilities in the activated state for its use under a Planned Facilities Order, or analog or digital high capacity services to a Hub in the Access Service state, an IC 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 IC request. If the Telephone Company determines that the request cannot be met with reasonable effort, and another facility is activated for the IC's use, the Telephone Company will specify the use of that facility and notify the IC accordingly.

(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

(A) Except as set forth in (B), (C) and (D) following, the minimum period for which Access Service is provided and for which charges are applicable, is six months. For the application of minimum period charges for Switched Access Service Feature Groups B, C, D and E, it is assumed that the last identical capacity placed in service is the first one discontinued.

(B) The minimum period for which Access Service ordered under a Short Notice Interval is provided, and for which charges are applicable, is one month.

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

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

5.2 Access Order (Cont'd)

5.2.5 Minimum Period (Cont'd)

(D) The minimum period for analog and digital high capacity services (facilities) to a Hub is 24 months and applies as set forth in 5.4.9 (A) following. The 24 month minimum period applies in lieu of the normal minimum six month period because the activation date and service date on such orders are always the same date.

5.2.6 Minimum Period Charges

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 each remaining month and/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 each remaining month and/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.

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 allowable only for existing services and to fill out existing systems. Only Switched Access Service busy hour minutes of capacity may be added to fill out existing systems. When Switched or Special Access Services provided over a shared use facility are disconnected, only Switched Access Service busy hour minutes of capacity can be ordered by the IC to backfill the system.

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

5.3 Available Inventory

Available inventory is limited and does not include facilities previously ordered or reserved. Available inventory also does not include analog or digital high capacity facilities. All Access Orders for analog or digital High Capacity Services or Interface Groups (i.e., Group, Supergroup, Mastergroup, DS1, DS1C, DS2, DS3 and DS4) require the use of Planned Facilities.

To the extent they can be provided, the Telephone Company will provide other than high capacity Access Services from an available inventory, except when the IC has Planned Facilities activated for its use and requests the Telephone Company to use such Planned Facilities in providing the requested services.

5.4 Planned Facilities Order

5.4.1 General

(A) An IC may place a Planned Facilities Order for the provision of Planned Facilities. Planned Facilities provided for Special Access Service include Access Connections, Special Transport, Features and Functions and Special Access Lines as described in 7.1 following. Planned Facilities provided for Switched Access Service include Access Connections, Local Transport and End Office functions, as described in 6.1 following. Planned Facilities will be made available by the Telephone Company for the IC's use on an established activation date. The combinations which may be ordered and made available for the IC's use on the activation date are set forth in 5.4.2 following.

(B) Planned Facilities Orders must be placed separately for each activation date for Special Access Service and Switched Access Service. For Switched Access Service, a separate order must be placed for each IC terminal location to end office (by Feature Group type) ordered.

For Special Access Service, separate orders must be placed for each IC terminal location to End User premises, IC terminal location to IC terminal location, IC terminal location to Hub serving wire center, End User premises to End User premises or End User premises to WATS serving office.

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

5.4 Planned Facilities Order

5.4.1 General (Cont'd)

(B) (Cont'd)

Metallic facilities between the IC terminal location and the IC serving wire center may be ordered for use with Switched Access Service or Special Access Service. A separate order must be placed for each request for such facilities.

(C) To the extent that Planned Facilities can be made available, and unless special construction charges apply as set forth in (D) following, the Planned Facilities ordered will be available to the IC, at rates and charges as set forth in 5.4.11 following, on the activation date. Except as set forth following, the activation date may be set for any working day at least 24 months but not more than 36 months after the order date.

With the agreement of the Telephone Company, the Planned Facilities activation date may be scheduled for a date earlier than 24 months from the order date. If an IC requests an activation date more than 36 months after the order date, the Telephone Company will determine if such requests can be accommodated. When they can be, orders shall be accepted.

(D) Planned Facilities for which the Telephone Company has no foreseeable reuse, may be subject to special construction charges as set forth in the Northwestern Bell Telephone Company Tariff F.C.C. No. 51, in addition to the rates and charges set forth in 5.4.11 following.

The Telephone Company shall determine whether special construction charges apply and will so notify the IC prior to establishing a firm order.

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

5.4 Planned Facilities Order (Cont'd)

5.4.2 Planned Facilities Provided

The IC may order Planned Facilities as follows:

(A) For Switched Access Service

(1) Two-wire and four-wire metallic facilities between the IC terminal location and the IC serving wire center. These must be ordered in 100 pair units.

(2) Busy hour minutes of capacity (BHMC) between an IC terminal location and an end office (by Feature Group and type of BHMC). Optional features may also be specified by the IC.

Only those rate elements included on the Planned Facilities Order will be made available to the IC on the activation date.

(B) For Special Access Service

(1) Two-wire and four-wire metallic facilities between the IC terminal location and the IC serving wire center. These must be ordered in 100 pair units.

(2) Analog and digital high capacity (i.e., Group, Supergroup, Mastergroup, DS1, DS1C, DS2, DS3 and DS4) facilities between an IC terminal location and a Hub serving wire center. Hub functions may also be specified by the IC.

(3) Analog and digital high capacity (i.e., Group, Supergroup, Mastergroup, DS1, DS1C, DS2, DS3 and DS4) facilities between two IC terminal locations. One of the IC terminal locations will be treated as an End User premises. Facility interface combinations and optional features may also be specified by the IC.

ACCESS SERVICE

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

5.4 Planned Facilities Order (Cont'd)

5.4.2 Planned Facilities Provided (Cont'd)

(B) For Special Access Service (Cont'd)

(4) Narrowband, Voice Grade, Program Audio, Video, Wideband Analog, Wideband Digital, Digital Data Access and High Capacity 1 (HC1) facilities between an IC terminal location and an End User premises. Features and functions (e.g., facility interface combinations and optional features) may also be specified by the IC.

(5) Dedicated Access Line Service two-wire or four-wire facilities between an End User premises and a WATS serving office. Optional features may also be specified by the IC.

Only those rate elements included on the Planned Facilities Order will be made available to the IC on the activation date.

5.4.3 Advance Payments

Planned Facilities Orders are subject to advance payments by the IC. Three advance payments are required during the Order Interval, i.e., the interval between the order date and the original activation date. These are set forth in (A), (B) and (C) following. Each advance payment is based on the monthly charge as described in 5.4.11 following.

(A) The first advance payment is due to the Telephone Company 30 days after the order date. The payment shall be an amount equal to three times the monthly charge.

(B) The second advance payment is due to the Telephone Company on the last day of the month that is specified in the following table.

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

5.4 Planned Facilities Order (Cont'd)

5.4.3 Advance Payments (Cont'd)

(B) (Cont'd)

Order Interval In Months	Month After Order Date Second Payment is Due
Up to 19	1st
Over 19 to 20	2nd
Over 20 to 21	3rd
Over 21 to 22	4th
Over 22 to 23	5th
Over 23 to 24	6th
Over 24	7th

The payment shall be an amount equal to six times the monthly charge.

(C) The third advance payment is due to the Telephone Company on the last day of the month that is specified in the following table.

Order Interval In Months	Month After Order Date Third Payment is Due
Up to 12	1st
Over 12 to 13	2nd
Over 13 to 14	3rd
Over 14 to 15	4th
Over 15 to 16	5th
Over 16 to 17	6th
Over 17 to 18	7th
Over 18 to 19	8th
Over 19 to 20	9th
Over 20 to 21	10th
Over 21 to 22	11th
Over 22 to 23	12th
Over 23 to 24	13th
Over 24	14th

The payment shall be an amount equal to three times the monthly charge.

ACCESS SERVICE

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

5.4 Planned Facilities Order (Cont'd)

5.4.3 Advance Payments (Cont'd)

(C) (Cont'd)

If any advance payment is not received by the Telephone Company by the end of the first working day of the next month, the Telephone Company will cease all work on the Planned Facilities Order involved and cancellation charges as set forth in 5.4.6 will apply.

In those cases where the activation date is less than 24 months the second and possibly the third, advance payment may be due at the same time as the first advance payment.

The advance payments will be credited against money owed by the IC for activated Planned Facilities or Access Service of the same type, i.e., Switched Access Feature Group accounts or Special Access accounts, on the activation date for the facility for which the advance payment was taken. Should the Planned Facilities Order be cancelled by the IC, the amount of the advance payments will be credited to the IC's account and any remaining credit balance will be refunded. The fact that advance payments have been made in no way relieves the IC from complying with the Telephone Company's regulations as to other payments or the prompt payment of bills.

5.4.4 Hub Serving Wire Centers

Planned Facilities Hub serving wire centers for Special Access may be established by the Telephone Company at designated locations in a LATA. A Hub is a Telephone Company office where facilities will be available to reach a specified set of serving wire centers and End User premises. The location of Hubs, if any, in a LATA will be specified by the Telephone Company. Different serving wire centers may be designated as Bridging Hubs and Multiplexing Hubs. The wire centers served by the Hub serving wire center will also be specified by the Telephone Company.

ACCESS SERVICE

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

5.4 Planned Facilities Order (Cont'd)

5.4.5 Modifications of Planned Facilities Orders

Modifications of Planned Facilities Orders may be made by the IC without charge prior to acceptance by the Telephone Company of the Planned Facilities Order. The date when the order is accepted is known as the order date. After the order date, modifications may be made as set forth following.

(A) Changes in Number of Facilities

After the order date, any increase or decrease in the number or type of facilities ordered will be treated as follows:

(1) An increase in the number of facilities ordered will be treated as a new Planned Facilities Order (for the increased amount only).

(2) Any decrease in the number of facilities ordered will be treated as a cancellation (for the decreased amount only) and will be subject to the regulations and charges set forth in 5.4.6 following.

(B) Activation Date Changes

With the agreement of the Telephone Company, the IC may change the activation date of a Planned Facilities Order subject to the following conditions:

(1) No activation date may be established that is more than 12 months beyond the activation date specified on the original order. If the IC is unable to accept the facilities within 12 months of the original activation date, the IC has the choice of the following options:

(a) The Planned Facilities Order shall be cancelled and charges set forth in 5.4.6(B) following will apply or

(b) Billing for the facilities will commence.

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

5.4 Planned Facilities Order (Cont'd)

5.4.5 Modifications of Planned Facilities Orders (Cont'd)

(B) Activation Date Changes (Cont'd)

(2) If the requested date is prior to the original activation date, Additional Engineering, Additional Labor, and/or special construction charges may apply in order to meet the date. The Telephone Company will determine whether such charges apply and will notify the IC accordingly.

(3) A Planned Facilities Order Modification Charge as set forth in (D) following will apply for each activation date change.

(C) Other Modifications

(1) With the agreement of the Telephone Company, other modifications may be made prior to the activation date. The types of modifications that may be made include, but are not limited to:

- Change in facility interface
- Addition or deletion of optional features
- Change in type of Transport Termination (Switched Access only)
- Change from two-wire facilities to four-wire facilities or from four-wire facilities to two-wire facilities

A Planned Facilities Order Modification Charge as set forth in (D) following will apply for these types of modifications.

(2) The following types of modifications may not be made, but instead require the cancellation and reissuance of the order:

- Change in location, i.e., the IC terminal location, the Hub location, the end office or the end user premises
- Change in Feature Group type
- Change in type of facilities other than for two-wire to four-wire or from four-wire to two wire.

ACCESS SERVICE

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

5.4 Planned Facilities Order (Cont'd)

5.4.5 Modifications of Planned Facilities Orders (Cont'd)

(C) Other Modifications

(2) (Cont'd)

Cancellation Charges as set forth in 5.4.6 following will apply in these cases.

(D) Planned Facilities Order Modification Charge

(1) For the State of Iowa

The Planned Facilities Order Modification Charge is applied on a per order, per occurrence basis. The applicable charge is:

	USOC	Charge
Planned Facilities Order Modification Charge, per order		

If more than one change is being made at the same time, only one charge applies.

(2) For the State of Minnesota

The Planned Facilities Order Modification Charge is applied on a per order, per occurrence basis. The applicable charge is:

	USOC	Charge
Planned Facilities Order Modification Charge, per order		

If more than one change is being made at the same time, only one charge applies.

ACCESS SERVICE

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

5.4 Planned Facilities Order (Cont'd)

5.4.5 Modifications of Planned Facilities Orders (Cont'd)

(D). Planned Facilities Order Modification Charge (Cont'd)

(3) For the State of Nebraska

The Planned Facilities Order Modification Charge is applied on a per order, per occurrence basis. The applicable charge is:

	USOC	Charge
Planned Facilities Order Modification Charge, per order		

If more than one change is being made at the same time, only one charge applies.

(4) For the State of North Dakota

The Planned Facilities Order Modification Charge is applied on a per order, per occurrence basis. The applicable charge is:

	USOC	Charge
Planned Facilities Order Modification Charge, per order	ONC	$13.06

If more than one change is being made at the same time, only one charge applies.

ACCESS SERVICE

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

5.4 Planned Facilities Order (Cont'd)

5.4.5 Modifications of Planned Facilities Orders (Cont'd)

(D) Planned Facilities Order Modification Charge

(5) For the State of South Dakota

The Planned Facilities Order Modification Charge is applied on a per order, per occurrence basis. The applicable charge is:

	USOC	Charge
Planned Facilities Order Modification Charge, per order		

If more than one change is being made at the same time, only one charge applies.

5.4.6 Cancellation of a Planned Facilities Order

(A) A Planned Facilities Order may be cancelled after the order date. Cancellation Charges will apply as set forth in (B) and (C) following. The cancellation date is the date the Telephone Company receives written or verbal notice from the IC that the capacity or channels ordered are to be cancelled. The verbal notice must be followed by written confirmation within 10 days.

(B) The applicable Cancellation Charge is based on the interval between the cancellation date and the activation date or the interval between the cancellation date and 24 months after the order date, whichever interval is shorter. This interval is known as the Cancellation Interval. The Cancellation Charge applicable to each Cancellation Interval is shown in the following table.

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

5.4 Planned Facilities Order (Cont'd)

5.4.6 Cancellation of a Planned Facilities Order (Cont'd)

(B) (Cont'd)

Cancellation Interval In Months Prior to Activation Date	Cancellation Charge Per Capacity or Channel Cancelled
Less than 1	24 times Monthly Charge*
Over 1 to 2	23 times Monthly Charge*
Over 2 to 3	22 times Monthly Charge*
Over 3 to 4	21 times Monthly Charge*
Over 4 to 5	20 times Monthly Charge*
Over 5 to 6	19 times Monthly Charge*
Over 6 to 7	18 times Monthly Charge*
Over 7 to 8	17 times Monthly Charge*
Over 8 to 9	16 times Monthly Charge*
Over 9 to 10	15 times Monthly Charge*
Over 10 to 11	14 times Monthly Charge*
Over 11 to 12	13 times Monthly Charge*
Over 12 to 13	12 times Monthly Charge*
Over 13 to 14	11 times Monthly Charge*
Over 14 to 15	10 times Monthly Charge*
Over 15 to 16	9 times Monthly Charge*
Over 16 to 17	8 times Monthly Charge*
Over 17 to 18	7 times Monthly Charge*
Over 18 to 19	6 times Monthly Charge*
Over 19 to 20	5 times Monthly Charge*
Over 20 to 21	4 times Monthly Charge*
Over 21 to 22	3 times Monthly Charge*
Over 22 to 23	2 times Monthly Charge*
Over 23	1 times Monthly Charge*

*Monthly Charge is the charge as set forth in 5.4.11 following.

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

5.4 Planned Facilities Order (Cont'd)

5.4.6 Cancellation of a Planned Facilities Order (Cont'd)

(C) Where special construction is involved, Cancellation Charges and/or Termination Liability Charges as set forth in the Northwestern Bell Telephone Company Tariff F.C.C. No. 51 will apply in addition to charges set forth in (B) preceding.

5.4.7 Activation of Planned Facilities

The Planned Facilities ordered are made available for the IC's future service needs on the activation date. Special or Switched Access Service using the Planned Facilities will be provided pursuant to standard, negotiated or short notice service date intervals, under an Access Order, as set forth in 5.2.1 preceding. The service date on such orders may be the same as, or later than, the Planned Facilities Order activation date. (For analog and digital high capacity Planned Facilities Orders to a Hub, the service date and activation date are always the same.) When the service and activation dates are the same, the Access Order charges apply and the Planned Facilities charges do not. However, if the service is disconnected prior to the expiration of the minimum period requirements for the Planned Facilities Order, the facilities will be returned to the activated status. Planned Facilities Order minimum period charges will commence and will apply until such time as the minimum period requirements are fulfilled.

5.4.8 Delayed Activation Credit

The Telephone Company will make every effort to provide the Planned Facilities to the IC on the established activation date. If the date is missed, unless for reasons beyond the control of the Telephone Company as set forth in 2.1.3 preceding and 5.4.12(B) following, a Delayed Activation Credit will apply and will be credited to the IC's account.

The Delayed Activation Credit will be 1/30 of the monthly charge as specified in 5.4.11 following for each day the date is missed.

ACCESS SERVICE

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

5.4 Planned Facilities Order (Cont'd)

5.4.9 Minimum Period

(A) The minimum period for which Planned Facilities are activated for the IC's use, and for which charges are applicable is 24 months. Beginning on the activation date, the appropriate charges as specified in 5.4.11 following will apply.

(B) Facilities in the activated status for which the minimum period has ended will be treated as follows:

(1) Subject to (C) following, the IC may retain the facilities in the activated status and the charges as set forth in 5.4.11 following will apply.

(2) Subject to the provisions of 5.5 following, the IC may return the facilities to the Telephone Company, upon 30 days notice. All availability for use by the IC will cease as of that date.

(C) Facilities in the activated status for which the minimum period has ended, and for which there are no currently pending Access Orders, except those where special construction applies, may be taken by the Telephone Company for its use upon written 90 day notice to the ordering IC. If the IC does not submit Access Orders for the use of such Planned Facilities prior to the end of the 90 day notice period, all availability for use by the IC will cease as of that date or other date mutually agreeable to the Telephone Company and the IC, and charges as set forth in 5.4.11 following will cease.

ACCESS SERVICE

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

5.4 Planned Facilities Order (Cont'd)

5.4.9 Minimum Period (Cont'd)

(D) Planned Facilities provided by special construction will be subject to liabilities and charges as set forth in the Northwestern Bell Telephone Company Tariff F.C.C. No. 51, in addition to those in (A) through (C) preceding.

5.4.10 Minimum Charges

When Planned Facilities are returned to the Telephone Company prior to the expiration of the minimum period, charges are applicable for the remainder of the minimum period. The charge for the quantity returned will be an amount equal to the applicable monthly charge times the number of months and/or fraction thereof between the return date and the end of the minimum period. The monthly charge is set forth in 5.4.11 following.

5.4.11 Monthly Charge

Monthly charges are applicable for activated Planned Facilities. The monthly charge will apply from the activation date until such time as the facilities are used to provide Access Service via an Access Order or, until the minimum period requirements have been satisfied. If the minimum period requirement has been satisfied and the IC chooses to retain the facilities in the activated status, the monthly charge will continue to apply. If the IC requests the Planned Facilities be used to provide Access Service and they are so used, the Planned Facilities monthly charge will cease and the appropriate Switched or Special Access Service rates and charges set forth in 6.8, 6.9, 6.10, 6.11, 6.12 and 7.5, 7.6, 7.7, 7.8, and 7.9 respectively will apply.

The monthly charge will serve as the basis for advance payments and Cancellation Charges, as well as for the monthly charge to be billed for activated Planned Facilities.

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

5.4 Planned Facilities Order (Cont'd)

5.4.11 Monthly Charge (Cont'd)

The monthly charges are as follows:

(A) For Switched Access Service

Activated Switched Access Planned Facilities between the IC terminal location and the end office will be billed at the rates established for Minimum Monthly Usage Charge (MMUC) as set forth in 6.7.5 following.

(B) For Special Access

Activated Special Access Planned Facilities will be billed at the monthly rates in 7.5.1, 7.6.1, 7.7.1, 7.8.1, 7.9.1, 7.5.2, 7.6.2, 7.7.2, 7.8.2, 7.9.2, 7.5.4, 7.6.4, 7.7.4, 7.8.4, and 7.9.4 following for the Access Connections, Special Transport and Special Access Lines, respectively.

Bridging functions, if specified on the Planned Facilities Order, will be billed at the monthly rates set forth in 7.5.3(C), 7.6.3(C), 7.7.3(C), 7.8.3(C), and 7.9.3(C) following. Billing for all other Features and Functions, including Facility Interface Combinations, even if specified on the order, will not commence until placed in service via an Access Order. The monthly rate is the total of all the items included on the order for which charges are to apply while in the activated status.

(C) For Metallic Facilities

Two-wire and four-wire metallic facilities between an IC terminal location and the IC serving wire center, whether ordered as Switched Access or Special Access, will be billed at the monthly rates set forth in 7.5.1, 7.6.1, 7.7.1, 7.8.1, and 7.9.1 following for two-wire and four-wire Special Access Service Access Connections.

ACCESS SERVICE

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

5.4 Planned Facilities Order (Cont'd)

5.4.12 Planned Facilities Test and Line Up

(A) Prior to the activation date, the Telephone Company will test and line up the facilities provided, as appropriate. Test and line up will be made by the Telephone Company using the IC facilities which are installed at the IC terminal location to terminate the capacity or services provided. The IC shall provide personnel and equipment and shall have its facilities available to complete the testing and line up during the period specified. If the personnel, equipment and facilities are not provided by the IC, and the activation date is missed, no Delayed Activation Credit applies.

(B) Testing and line up as set forth in (A) preceding may begin up to 30 days prior to the scheduled activation date. The Telephone Company will notify the IC of the scheduled start date at least ten working days prior to such date. If this date is mutually agreeable, the Telephone Company will begin testing on the scheduled date. If this date is not agreeable to the IC and another date is agreed upon, no Delayed Activation Credit will apply if the facilities are not available on the activation date.

5.5 Switched Access Service Minimum Capacity Requirements

5.5.1 When Switched Access Service Access Connections are ordered under Planned Facilities Orders or Access Orders, they will be provided subject to the minimum capacity provisions set forth in 5.1.1 preceding and in 5.5.2 through 5.5.7 following.

5.5.2 There is no minimum capacity for Interface Groups 1 and 2 except as set forth in 5.4.2(A)(1) preceding. The minimum capacity provided for Interface Groups 3 through 10, and for which charges are applicable, are set forth in 5.5.6 following.

ACCESS SERVICE

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

5.5 Switched Access Service Minimum Capacity Requirements (Cont'd)

5.5.3 When additional busy hour minutes of capacity are ordered, they may be provided using activated or in service Access Connection Interface Groups. Such busy hour minutes of capacity, up to and including the number that brings the Interface Group to its designated capacity, will be provided without being subject to the minimum capacity provisions as set forth in 5.5.6 following. Any additional busy hour minutes of capacity ordered will be subject to the minimum capacity provisions, unless they are provided under an Access Order using Planned Facilities.

5.5.4 When an IC requests high frequency analog or digital Interface Groups, the IC is required to order at a minimum, sufficient capacity to utilize 70% of the channels.

5.5.5 For the purpose of administering the minimum capacity provisions, Access Orders for Access Connection Interface Groups for different Feature Groups may be grouped together if the facilities provided for all the connections are the same and terminate in the same facilities terminal in the same end office.

5.5.6 The following table provides the total capacity of the interface and the thresholds for minimum order requirements.

Interface Type	Interface Name	Total Capacity (Channels)	Minimum Capacity (Channels)
Analog	Group	12	9
Analog	Supergroup	60	42
Analog	Mastergroup	600	420
Digital	DS1	24	17
Digital	DS1C	48	34
Digital	DS2	96	68
Digital	DS3	672	471
Digital	DS4	4032	2823

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

5.5 Switched Access Service Minimum Capacity Requirements (Cont'd)

5.5.6 (Cont'd)

The Telephone Company will not provide these Interface Groups when less than 70% of the capacity is ordered. For purposes of grouping, as set forth in 5.5.5 preceding, it shall be assumed that Feature Group A, B, C, D, or E minutes may be combined.

5.5.7 When Switched Access Service provided from available inventory is disconnected, and the disconnect causes the in service capacity to fall below the minimum requirements, the Telephone Company will, at the option of the IC.

(A) disconnect all the service subject to the minimum capacity requirements, and all appropriate charges will apply, or

(B) establish a Planned Facilities Order for the minimum capacity as of the disconnect date, and all facilities not in service required to meet the minimum requirements will be established as activated Planned Facilities, with appropriate charges applying.

When a return of Planned Facilities to the Telephone Company causes the activated capacity to fall below the minimum, the Telephone Company will take back all Planned Facilities involved and all appropriate charges will apply.

5.6 Record Modifications and Charges

An IC may request a record modification for existing Access Services or activated Planned Facilities. Record modifications include the following types of changes:

- Billing name
- Billing address
- Contact telephone number
- Rearrange account structure
- Change designation of IC serving wire center (applies only to application of the five mile rule as set forth in 6.7.13(B) following).

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

5.6 Record Modifications and Charges (Cont'd)

The charges to be applied for record modifications are as follows:

- For changes to existing Access Service, a charge equal to the amount of the Other Modification Charge set forth in 5.2.3(E) preceding will apply.
- For changes to activated Planned Facilities, a charge equal to the amount of the Planned Facilities Order Modification Charge set forth in 5.4.5(D) preceding will apply.

6. Switched Access Service

6.1 General

Switched Access Service provides a two-point electrical communications path between the IC terminal location and telephone exchange service locations. Each path is capable of the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Switched Access Service provides for the use of common terminating, switching and trunking facilities, and jointly used subscriber plant of the Telephone Company's public switched network by ICs for their use in furnishing their services. Directory listings are not included with Switched Access. These are provided from the Telephone Company's local and/or general exchange service tariff.

Switched Access Service is provided in various Feature Group arrangements which are differentiated by the type of connection (i.e., line side connection and trunk side connection) and the access calling pattern (e.g., 950-10XX calling in a LATA, 10XX calling in a LATA, etc.).

Switched Access Service provides for the ability to make and receive calls to and from telephone exchange service locations in the LATA associated with the specific Feature Group provided.

At the option of the IC, Switched Access Service may be provided for both interstate and intrastate communications. When the IC orders such mixed access, it is responsible for providing the reports in 2.3.14 preceding to the Telephone Company.

When the IC plans to use Switched Access Service in connection with the resale of services of another IC, such Switched Access Service will be provided, subject to the rate regulations set forth in 6.7.3 following. Such Switched Access Service will be provided as set forth in the following paragraphs of this section. The IC shall order the features and options it desires in accordance with the provisions of this section.

6.1.1 Feature Group Arrangements

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SWITCHED ACCESS SERVICE - OVERVIEW

The following matrix highlights each feature group's characteristics (taken from the 1986 tariff):

FEATURE GROUP MATRIX

FEATURE GROUP	FGA	FGB	FGC (2)	FGD
Typical Service Use	FX/ONAL LONAL MTS-Type WATS-Type	MTS/MTS-Type WATS-Type	MTS/WATS WATS-Type	Equal Access
Carrier Access Code	7 Digit (NXX-XXXX)	7 Digit (950-XXXX)	None	101XXXX or Preaubscription
Type Termination	Line Side	Trunk Side	Trunk Side	Trunk Side
Carrier Availability	All Customers	All Customers	Providers of MTS/WATS(2)	All Customers
Equal Access Office/Rates	MOU LS(1)	MOU LS(1)	MOU LS(1)	MOU LS

(1) All customers pay the same rates for all Switched Access rate elements without respect to Feature Group. The Company charges a unitary rate for each element ("premium rate") as it does not have a bifurcated premium/non-premium rate structure.

(2) Available to the providers of WATS (e.g., AT&T and SmartNet). Also available to Qwest or its successor intrastate IntraLATA primary toll carrier, and to an exchange carrier acting as an interexchange carrier for the provision of interstate IntraLATA Access. Other access customers, may obtain: (a) Originating FGC access for the provision of open end 800 and Interim NXX Service or (b) Terminating FGC access for testing purposes when used for the provision of Open End 800 and Interim NXX Service.

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6.1.1 Feature Group Arrangements

There are five Feature Group arrangements through which Switched Access Service is provided. Following is a brief description of each. More detailed descriptions are set forth in 6.2 following.

6. Switched Access Service

6.1 General

Switched Access Service provides a two-point electrical communications path between the IC terminal location and telephone exchange service locations. Each path is capable of the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Switched Access Service provides for the use of common terminating, switching and trunking facilities, and jointly used subscriber plant of the Telephone Company's public switched network by ICs for their use in furnishing their services. Directory listings are not included with Switched Access. These are provided from the Telephone Company's local and/or general exchange service tariff.

Switched Access Service is provided in various Feature Group arrangements which are differentiated by the type of connection (i.e., line side connection and trunk side connection) and the access calling pattern (e.g., 950-10XX calling in a LATA, 10XX calling in a LATA, etc.).

Switched Access Service provides for the ability to make and receive calls to and from telephone exchange service locations in the LATA associated with the specific Feature Group provided.

At the option of the IC, Switched Access Service may be provided for both interstate and intrastate communications. When the IC orders such mixed access, it is responsible for providing the reports in 2.3.14 preceding to the Telephone Company.

When the IC plans to use Switched Access Service in connection with the resale of services of another IC, such Switched Access Service will be provided subject to the rate regulations set forth in 6.7.3 following. Such Switched Access Service will be provided as set forth in the following paragraphs of this section. The IC shall order the features and options it desires in accordance with the provisions of this section.

6.1.1 Feature Group Arrangements

There are five Feature Group arrangements through which Switched Access Service is provided. Following is a brief description of each. More detailed descriptions are set forth in 6.2 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Feature Group Arrangements (Cont'd)

(A) Feature Group A (FGA)

FGA Access provides line side access to Telephone Company end office switches with an associated seven digit local telephone number for the IC's use in originating and terminating communications.

(B) Feature Group B (FGB)

FGB Access provides trunk side access to Telephone Company end office switches with an associated uniform 950-10XX access code for the IC's use in originating and terminating communications.

(C) Feature Group C (FGC)

FGC Access provides trunk side access to Telephone Company end office switches for providers of MTS and WATS 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.

(D) Feature Group D (FGD)

FGD Access provides trunk side access to Telephone Company end office switches with an associated 10XX access code for the IC's use in originating and terminating communications.

(E) Feature Group E (FGE)

FGE Access provides trunk side access to Telephone Company end office switches for the IC's use in originating and terminating communications.

Switched Access Service feature groups are available as follows:

- Feature Group A: to all ICs
- Feature Group B: to all ICs
- Feature Group C: only to providers of MTS and WATS until Feature Group D is available in an end office switch

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Feature Group Arrangements (Cont'd)

- Feature Group D: to all ICs
- Feature Group E: only to providers of domestic public land mobile radiotelephone and paging services

6.1.2 Dedicated Access Line Service

Dedicated Access Line Service is a type of Special Access Service that is provided only for use with Feature Group C and D Switched Access Service. Dedicated Access Line Service connects an End User premises with a WATS or WATS type serving office. This service is described in 7.2.1(F) following.

6.1.3 Rate Categories

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

- Access Connections
- Local Transport
- End Office (i.e., Local Switching, Line Termination, Intercept and Directory Assistance)
- Common Line*

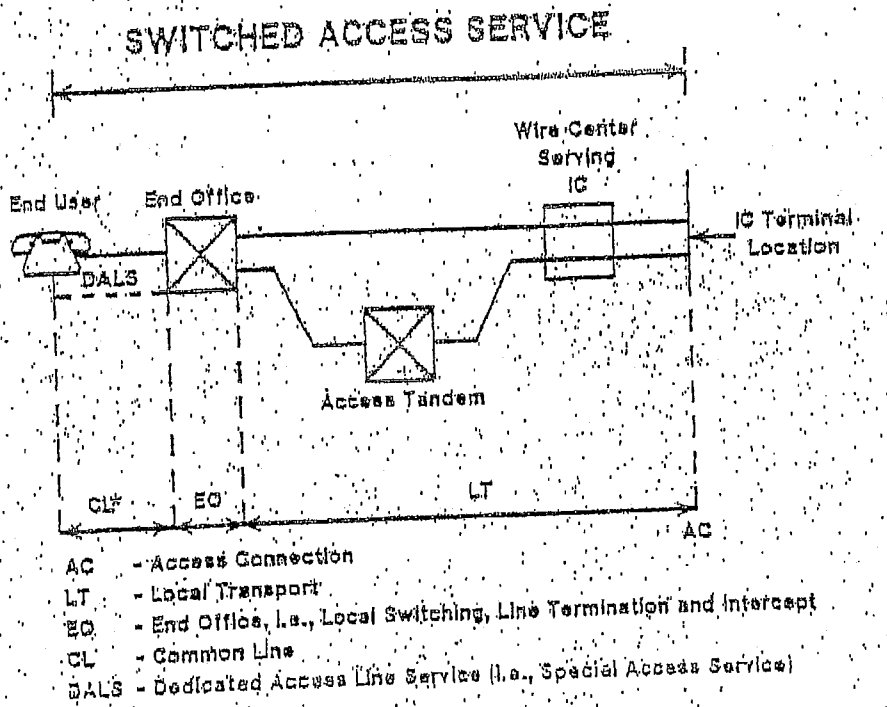
* Common Line access is provided under Sections 3. and 4. preceding.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

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



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

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections

The Access Connections rate category provides for the busy hour minutes of capacity and interface arrangements established for the IC. Such Access Connections are provided at rates and charges as set forth in 6.8.1, 6.9.1, 6.10.1, 6.11.1 and 6.12.1 following.

Access Connections busy hour minutes of capacity are differentiated by type of traffic. There are four major categories of busy hour minutes of capacity, i.e., originating, terminating, Feature Group A and Directory Assistance. Originating busy hour minutes of capacity may be further categorized to domestic, 800, 900, operator and IDDD. The IC must specify originating, terminating, Feature Group A or Directory Assistance when ordering capacity. In addition, if separate trunk groups are required for Feature Groups B or C originating busy hour minutes of capacity, the IC may also specify domestic, 800, 900, operator or IDDD.

Access Connections are provided in ten separate Interface Groups. Each Interface Group provides a specified facility interface (e.g., two-wire, four-wire, DS1, etc.). Interface Groups 3 through 10 are subject to the minimum busy hour minutes of capacity requirements when ordered as set forth in 5. preceding. Where transmission facilities permit, the individual transmission paths between the point of interface and the first point of switching may, at the option of the IC, be provided with optional features as set forth in 6.1.3(A)(12)(a) following. Provision of the Interface Groups and any optional features may require placement of Telephone Company equipment on the IC's premises.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

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

Only certain facility interface codes are available at the IC terminal locations. The facility interfaces associated with the Interface Groups may vary among Feature Groups. The various facility interfaces which are available with the Interface Groups, and the Feature Groups with which they may be used, are set forth in 6.1.3(A)(11) following.

The capacity provided with each Interface Group is based on the IC's order subject to 5.5 preceding.

(1) Interface Group 1

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

(b) 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.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

(1) Interface Group 1 (Cont'd)

(c) The transmission path between the point of interface at the IC terminal location 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.

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

(2) Interface Group 2

(a) Interface Group 2 provides four-wire voice frequency transmission at the point of interface at the IC terminal location. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

(b) The transmission path between the point of interface at the IC terminal location 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.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

(2) Interface Group 2 (Cont'd)

(c) 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, FGD or FGE, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(3) Interface Group 3

(a) Interface Group 3 provides a group level analog transmission at the point of interface at the IC terminal location. 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 switching, the Telephone Company will provide multiplex equipment to derive 12 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

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

(4) Interface Group 4

(a) Interface Group 4 provides supergroup level analog transmission at the point of interface at the IC terminal location. 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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

(4) Interface Group 4 (Cont'd)

(a) (Cont'd)

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.

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

(5) Interface Group 5

(a) Interface Group 5 provides mastergroup level analog transmission at the point of interface at the IC terminal location. 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 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.

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

(6) Interface Group 6

(a) Interface Group 6 provides DS1 level digital transmission at the point of interface at the IC terminal location. 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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

(6) Interface Group 6 (Cont'd)

(a) (Cont'd)

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.

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

(7) Interface Group 7

(a) Interface Group 7 provides DS1C level digital transmission at the point of interface at the IC terminal location. 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.

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

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

(B) Interface Group 8

(a) Interface Group 8 provides DS2 level digital transmission at the point of interface at the IC terminal location. 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.

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

(9) Interface Group 9

(a) Interface Group 9 provides DS3 level digital transmission at the point of interface at the IC terminal location. 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.

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

(10) Interface Group 10

(a) Interface Group 10 provides DS4 level digital transmission at the point of interface at the IC terminal location. 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 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.

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

(11) Available IC Facility Interface Codes

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

Interface Group	Telephone Company Switch Supervisory Signaling	IC Facility Interface Code	Feature Group A	B	C	D	E
1	LO	2LS2	X				
	LO	2LS3	X				
	GO	2GS2	X				
	GO	2GS3	X				
	LO, GO	2DX3	X				

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

(11) Available IC Facility Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	IC Facility Interface Code	Feature Group A	B	C	D	E
1 (Cont'd)	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	X
	RV, EA, EB, EC	4EA3-E		X	X	X	X
	RV, EA, EB, EC	4EA3-M		X	X	X	X
	RV, EA, EB, EC	6EB3-E		X	X	X	X
	RV, EA, EB, EC	6EB3-M		X	X	X	X
	EA, EB, EC	6EC3		X	X	X	X
	RV	2RV3-O		X	X	X	X
	RV	2RV3-T		X	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				
	LO, GO	8EB2-M	X				
	LO, GO	6EX2-B	X				
	RV, EA, EB, EC	4SF2		X	X	X	X
	RV, EA, EB, EC	4SF3		X			
	RV, EA, EB, EC	4DX2		X	X	X	X
	RV, EA, EB, EC	4DX3		X			
	RV, EA, EB, EC	6DX2			X		X

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

(11) Available IC Facility Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	IC Facility Interface Code	Feature Group A	B	C	D	E
2 (Cont'd)	RV, EA, EB, EC	6EA2-E		X	X	X	X
	RV, EA, EB, EC	6EA2-M		X	X	X	X
	RV, EA, EB, EC	8EB2-E		X	X	X	X
	RV, EA, EB, EC	8EB2-M		X	X	X	X
	EA, EB, EC	8EC2-M		X	X	X	X
	RV	4RV2-O		X	X	X	X
	RV	4RV2-T		X	X	X	X
	RV	4RV3-O		X	X		X
	RV	4RV3-T		X	X		X
3	LO, GO	4AH5-B	X				
	RV, EA, EB, EC	4AH5-B		X	X	X	X
4	LO, GO	4AH6-C	X				
	RV, EA, EB, EC	4AH6-C		X	X	X	X
5	LO, GO	4AH6-D	X				
	RV, EA, EB, EC	4AH6-D		X	X	X	X
6	LO, GO	4DS9-15	X				
	LO, GO	4DS9-15L	X				
	RV, EA, EB, EC	4DS9-15		X	X	X	X
	RV, EA, EB, EC	4DS9-15L		X	X	X	X
7	LO, GO	4DS9-31	X				
	RV, EA, EB, EC	4DS9-31		X	X	X	X
	LO, GO	4DS9-31L	X				
	RV, EA, EB, EC	4DS9-31L		X	X	X	X
8	LO, GO	4DS0-63	X				
	LO, GO	4DS0-63L	X				
	RV, EA, EB, EC	4DS0-63		X	X	X	X
	RV, EA, EB, EC	4DS0-63L		X	X	X	X

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

(11) Available IC Facility Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	IC Facility Interface Code	Feature Group A	B	C	D	E
9	LO, GO	4DS6-44	X				
	LO, GO	4DS6-44L	X				
	RV, EA, EB, EC	4DS6-44		X	X	X	X
	RV, EA, EB, EC	4DS6-44L		X	X	X	X
10	LO, GO	4DS6-27	X				
	LO, GO	4DS6-27L	X				
	RV, EA, EB, EC	4DS6-27		X	X	X	X
	RV, EA, EB, EC	4DS6-27L		X	X	X	X

(12) Interface Group Nonchargeable Optional Features

The Telephone Company will provide the following optional features in association with the Interface Groups listed in (1) through (10) preceding. Only those Interface Groups referenced with each optional feature will be provided with that feature. The provision of such features may require placement of Telephone Company equipment on the IC's premises.

(a) Supervisory Signaling

A Supervisory Signaling capability is provided for each Interface Group as listed in (1) through (10) preceding.

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

(12) Interface Group Nonchangeable Optional Features (Cont'd)

(a) Supervisory Signaling (Cont'd)

- For Interface Groups 1 and 2

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

- For Interface Group 2

SF Supervisory Signaling,
Tandem Supervisory Signaling, or
E&M Type III Supervisory Signaling

In addition, with the agreement of the Telephone Company, Interface Groups 6 through 10, may at the option of the IC, be provided with individual transmission path SF supervisory signaling.

(b) IC Specified Entry Switch Receive Level

This feature allows the IC to specify the receive transmission level at the first point of switching within a range acceptable to the Telephone Company in association with Interface Groups 2 through 10. This feature is available with Feature Groups A, B and E.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) Local Transport

The Local Transport rate category provides the transmission facilities between the IC terminal location and the end office switch(es) where the IC's traffic is switched to originate or terminate its communications. For purposes of determining Local Transport mileage, distance will be measured from the wire center that normally serves the IC 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 IC terminal location) and in the terminating direction (from the IC terminal location 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 determine whether the Switched Access Service is to be routed directly to an end office switch or through an access tandem switch unless the IC orders the Provision of Other Than Telephone Company Selected Traffic Routing optional feature. The Telephone Company will determine whether the Switched Access Service is to be provided as one-way calling or two-way calling unless the IC orders the IC Specification of Feature Group Directionality optional feature. These optional features are described in (1) following. Another optional feature, IC Specification of Local Transport Termination, is also described in that section.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) Local Transport (Cont'd)

Local Transport is provided at the rates and charges as set forth in 6.8.2(A), 6.9.2(A), 6.10.2(A), 6.11.2(A) and 6.12.2(A) following. Rates are applied on an access minutes basis. When Feature Groups A or B terminate in Telephone Company end offices that are not equipped for measurement capabilities, a Telephone Company assumed average number of access minutes will be billed to the IC in lieu of actual usage. These rates will be billed in terms of the total number of access minutes (i.e., originating and terminating). For terminating Feature Group B Switched Access Service where no measurement capabilities exist in the Telephone Company designated electronic access tandem switch, a Telephone Company assumed average number of access minutes will be billed to the IC in lieu of actual usage.

The number of Local Transport transmission paths provided is based on the IC's order and is determined by the Telephone Company as set forth in 6.5.5 following.

(1) Chargeable Optional Features

(a) Provision of Other Than Telephone Company Selected Traffic Routing

This option allows the IC to specify a particular traffic routing for trunk groups in lieu of Telephone Company selected routing, i.e., the IC may specify that the routing be on a direct trunk basis or via an access tandem. It is available with Feature Groups B, C and D.

(b) IC Specification of Feature Group Directionality

This option allows the IC to specify that the operation of a trunk group will be one-way originating or terminating calling in lieu of Telephone Company selected two-way calling or, alternatively, that operation will be two-way calling in lieu of Telephone Company selected one-way calling. It is available with Feature Groups B, C, D and E.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) Local Transport (Cont'd)

(1) Chargeable Optional Features (Cont'd)

(c) IC Specification of Local Transport Termination

This option allows the IC 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 Performance.

These options are rated on an individual case basis with both nonrecurring charges and monthly recurring rates applying.

(C) 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, Intercept and Information (i.e., Directory Assistance) rate elements. Directory Assistance Service and the applicable rates for it are set forth in Section 9. following.

When Feature Group A or E Switched Access Services terminate in Telephone Company end offices that are not equipped for measurement capabilities, a Telephone Company assumed average number of access minutes will be billed to the IC in lieu of actual usage. These rates will be billed in terms of the total (i.e., originating and terminating) number of access minutes. For terminating Feature Group B Switched Access Service where no measurement capabilities exist in the Telephone Company designated electronic access tandem switch, a Telephone Company assumed average number of access minutes will be billed to the IC in lieu of actual usage.

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(C) End Offices (Cont'd)

(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 Groups A, B and E. The second category, LS2, provides local dial switching for Feature Groups C and D.

Where end offices are appropriately equipped, international dialing may be provided as a capability associated with LS2. International dialing provides the capability of switching international calls with service prefix and address codes having more digits than are capable of being switched through a standard FGC or FGD equipped end office.

LS1 and LS2 use is measured on an originating and terminating basis. Rates for LS1 and LS2 use are applied on a total number of access minutes of use basis, as set forth in 6.8.3(A), 6.9.3(A), 6.10.3(A), 6.11.3(A) and 6.12.3(A) 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.

(a) Common Switching

The 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.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(C) End Office (Cont'd)

(1) Local Switching (Cont'd)

(a) Common Switching (Cont'd)

Included as part of Common Switching are various nonchargeable optional features which the IC can order to meet its 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 nonchargeable 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 6.3.6 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 Dedicated Access Line Service Terminations. The Dedicated Access Line Service Terminations are differentiated by line 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 Dedicated Access Line Service. Line side terminations are available with either dial pulse or dual tone multifrequency address signaling.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(C) End Office (Cont'd)

(2) Line Termination (Cont'd)

Line Termination rates are applied on an access minutes basis, with no difference in rates for the various types of terminations. Line Termination rates are set forth in 6.8.3(B), 6.9.3(B), 6.10.3(B), 6.11.3(B) and 6.12.3(B) 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 applied on an access minutes basis and are assessed to an IC based on the total number of access minutes. Intercept rates are set forth in 6.8.3(C), 6.9.3(C), 6.10.3(C), 6.11.3(C) and 6.12.3(C) following.

The number of end office switching transmission paths provided will be determined by the Telephone Company based on the busy hour minutes of capacity to each end office specified by the IC in its order. The number of transmission paths will be determined as set forth in 6.5.5 following.

6.1.4 Special Facilities Routing

An IC 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.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.5 Design Layout Report

The Telephone Company will provide to the IC the makeup of the facilities and services provided to the first point of switching. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the IC at no charge.

6.1.6 Acceprance Testing

At no additional charge, the Telephone Company will, at the IC's request, cooperatively test, at the time of installation, the following parameters: loss, C-message noise, 3-tone slope, d.c. continuity and operational signaling. When the Access Connection is provided with a Type 2 interface 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.

If acceptance tests are not started within 30 minutes after the scheduled appointment time for such tests, as negotiated between the Telephone Company and the IC, additional charges will apply, as set forth in 13.2.6(B), 13.5.6(B), 13.8.6(B), 13.11.6(B) and 13.14.6(B) following.

6.1.7 Ordering Options and Conditions

There are two ordering options available to the IC in the provision of Switched Access Service. These are:

- Access Order
- Planned Facilities Order

These options are set forth in detail in 5. preceding, as are the conditions under which the options may be elected. Cancellation charges associated with these options are also included in 5. preceding.

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups

Switched Access Service is provided in five different Feature Group arrangements. The provision of each Feature Group requires an Access Connection, Local Transport facilities and the appropriate End Office functions.

There are three specific transmission performances (i.e., Types A, B and C) that have been identified for the provision of Feature Groups. The specific performance provided is 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 performances are set forth in 6.4.1 following.

Feature Groups are arranged for either originating, terminating or two-way calling, based on the IC end office switching busy hour minutes of capacity ordered. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the IC terminal location. Terminating calling permits the delivery of calls from the IC terminal location 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 IC specifies in its order that a different type of directional calling is to be provided.

There are various chargeable and nonchargeable optional features available with the Feature Groups. These additional optional features are provided as Access Connections, 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 performances 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.

ACCESS SERVICE

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 IC, 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 IC in the provision of its foreign dial tone service, second dial tone service or switched private network 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 IC.

(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 IC requests a different first point of switching and Telephone Company facilities and measurement capabilities 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.

(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 IC, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When FGA switching is provided in a hunt group or uniform call distribution arrangement, all FGA switching will be arranged for the same type of address signaling.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

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

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

(A) Description (Cont'd)

(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 IC, must be provided by the IC's customer 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 Access Connections and 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+), Directory Assistance (411 where available and 555-1212), emergency reporting service (911 where available), exchange telephone repair (611 where available), time or weather announcement services of the Telephone Company, community information services of an information service provider, and other ICs' 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. For calls to services of other ICs, additional charges may apply. Additional charges will also be billed 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 information services, for which rates are applicable under Telephone Company exchange service tariffs, and, (3) IC call charges in accordance with the tariffs in force when the Telephone Company performs the billing for such IC calls. For calls to Directory Assistance (411 where available and 555-1212), Local Transport rates for FGA Switched Access Service will not apply. Instead, Local Transport for calls to this service is subject to a per call rate as set forth in 9.6.1(B), 9.6.2(B), 9.6.3(B), 9.6.4(B) and 9.6.5(B) following. Additionally, calls to Directory Assistance are subject to the Directory Assistance Service Call rate set forth in 9.6.1(A), 9.6.2(A), 9.6.3(A), 9.6.4(A) and 9.6.5(A) following.

ACCESS SERVICE

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)

(8) When a FGA switching arrangement for an individual IC (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
(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

ACCESS SERVICE

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)

(i) Originating operation with loop start supervisory signaling
(j) Originating operation with ground start supervisory signaling

(3) 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 Performance

FGA is provided with either Type B or Type C Transmission Performance. The parameters associated with these performances are guaranteed to the first point of switching. Type C Transmission Performance is 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.

(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. Additional Cooperative Acceptance Testing and Non-Scheduled Testing will be provided as set forth in 13. following.

ACCESS SERVICE

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)

(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 IC, must be provided by the IC's customer 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 Access Connections and Local Transport provided.

(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 IC for its domestic communications and another will be assigned to the IC for its international communications, if required. These uniform access codes will be the assigned access numbers of all FGB Switched Access Service provided to the IC by the Telephone Company.

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)

(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 ICs' 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. For calls to services of other ICs, additional charges may apply. The IC will also be billed additional charges for calls to certain community information services for which rates are applicable under Telephone Company exchange service tariffs. Calls in the terminating direction will not be completed to 950-10XX access codes, local operator assistance (0- and 0+), Directory Assistance (411 where available and 555-1212), service codes (611 and 911 where available) or 10XX access codes. FGB may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C and D.

(6) The Telephone Company will establish a trunk group or groups for the IC 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.

ACCESS SERVICE

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)

(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 IC
(c) Alternate Traffic Routing

(2) Transport Termination Optional Features

(a) Rotary Dial Station Signaling

(3) Local Transport Optional Features

(a) IC Specification of Feature Group Directionality
(b) Provision of Other Than Telephone Company Selected Traffic Routing
(c) IC Specification of Local Transport Termination

(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.

(C) Transmission Performance

FGB is provided with either Type B or Type C Transmission Performance. The parameters associated with these performances 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 Performance is provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10.

ACCESS SERVICE

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 Performance (Cont'd)

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. Additional Cooperative Acceptance Testing, Automatic Scheduled Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Non-Scheduled Testing will be provided 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 IC (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.

(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

ACCESS SERVICE

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) (Cont'd)

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, nevertive pulse, immediate dial pulse or panel call indicator signaling, whichever is available. Up to 12 digits of the called party number dialed by the IC's customer using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the IC terminal location where the Switched Access Service terminates. Such called party number signals will be subject to the ordinary transmission capabilities of the Access Connections and Local Transport provided.

(4) No access code is required for FGC switching. The telephone number dialed by the IC's customer shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the IC's customers is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA + NXX-XXXX, 0 or 1 + NPA + NXX-XXXX, and, when the end office is equipped for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

(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

ACCESS SERVICE

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)

ICs' services (by dialing the appropriate codes) when the services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by offices subtending the access tandem may be accessed. For calls to services of other ICs, additional charges may apply. Where measurement capabilities exist, the IC will also be billed additional charges for calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs. 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 where available) and 10XX access codes. Calls will not be completed to Directory Assistance (411 where available and 555-1212) unless FGC switching is combined with Directory Assistance switching. 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 IC 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.

ACCESS SERVICE

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

(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) Immediate Dial Pulse Address Signaling
(f) Panel Call Indicator Address Signaling
(g) Alternate Traffic Routing
(h) Trunk Access Limitation
(i) End Office Customer Line Service Screening for Use with Dedicated Access Line Service
(j) Hunt Group Arrangement for Use with Dedicated Access Line Service
(k) Uniform Call Distribution Arrangement for Use with Dedicated Access Line Service
(l) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Dedicated Access Line Service
(m) Band Advance Arrangement for Use with Dedicated Access Line Service

(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.)

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)

(3) Local Transport Optional Features

(a) IC Specification of Feature Group Directionality
(b) Provision of Other Than Telephone Company Selected Traffic Routing

(C) Transmission Performance

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

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

Type C Transmission Performance is 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 for the transmission path when directly routed to the end office, and Type DB Data Transmission Parameters are provided for the transmission path between the IC terminal location and the access tandem and between the access tandem and the end office when routed via an access tandem.

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)

(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. Additional Cooperative Acceptance Testing, non-optional Automatic Scheduled Testing, Cooperative Scheduled Testing or Manual Scheduled Testing, and Non-Scheduled Testing will be provided as set forth in 13. following for FGC.

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 IC's customer using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the IC terminal location where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Access Connections and 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

ACCESS SERVICE

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)

other ICs' 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. For calls to services of other ICs, additional charges may apply. The IC will also be billed additional charges for calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs. 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 where available) and 10XX access codes. Calls will not be completed to Directory Assistance (411 where available and 555-1212) unless FGD switching is combined with Directory Assistance switching. 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 IC 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 10XX. A single access code will be the assigned number of all FGD access provided to the IC by the Telephone Company. No access code is required for calls to an IC over FGD Switched Access Service if the customer's telephone exchange service is arranged for presubscription to that IC,

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)

as set forth in 13. following. For a limited period of time, no access code is required for calls to a provider of NTS and WATS, when such calls are placed from a Telephone Company public or semi-public telephone.

Where no access code is required, the number dialed by the IC's customer shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the IC's customers is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA + NXX-XXXX, 0 or 1 + NPA + NXX-XXXX, and, when the end office is equipped for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

When the 10XX access code is used, FGD switching also provides for dialing the digit 0 for access to the IC'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 IC's terminal location.

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

ACCESS SERVICE

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

(1) Common Switching Optional Features

(a) Automatic Number Identification (ANI)
(b) Service Class Routing
(c) Alternate Traffic Routing
(d) Call Gapping Arrangement
(e) Trunk Access Limitation
(f) International Carrier Option
(g) End Office Customer Line Service Screening for Use with Dedicated Access Line Service
(h) Hunt Group Arrangement for Use with Dedicated Access Line Service
(i) Uniform Call Distribution Arrangement for Use with Dedicated Access Line Service
(j) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Dedicated Access Line Service
(k) Band Advance Arrangement for Use with Dedicated Access Line Service

(2) Transport Termination Optional Features

(a) Operator Trunk, Full Feature Arrangement

(3) Local Transport Optional Features

(a) IC Specification of Feature Group Directionality
(b) Provision of Other Than Telephone Company Selected Traffic Routing

(C) Transmission Performance

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

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

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)

(C) Transmission Performance (Cont'd)

- 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 Performance is provided with Interface Group 1. Type A and Type B Transmission Performances are provided with Interface Groups 2 through 10.

Type DA Data Transmission Parameters are provided for the transmission path between the IC terminal location 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 IC terminal location and the end office when directly routed to the end office.

(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. Additional Cooperative Acceptance Testing, non-optional Automatic Scheduled Testing, Cooperative Scheduled Testing, or Manual Scheduled Testing, and Non-Scheduled Testing, will be provided for FGD as set forth in 13. following.

6. Switched Access Service (Cont'd)

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

6.2.5 Feature Group E (FGE)

(A) Description

(1) FGE is available to ICs authorized to provide domestic public land mobile radiotelephone and paging services. It is provided at suitably equipped Telephone Company electronic end offices and other Telephone Company end offices where equipment is available.

(2) FGE is provided as trunk side switching with line treatment through the use of end office trunk side switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling. When provided from suitably equipped electromechanical end offices, delay dial start-pulsing signals are provided in lieu of wink start start-pulsing signals.

(3) FGE switching, when used in the terminating direction, is provided with multifrequency address signaling. FGE switching, when used in the originating direction, is provided with multifrequency or dial pulse address signaling when provided at suitably equipped electronic end offices, and dial pulse address signaling or immediate dial pulse address signaling from other suitably equipped electromechanical end offices. No other address signaling is provided by the Telephone Company when FGE switching is used in the originating direction. Address signaling in such cases, if required by the IC, must be provided by the IC's customer 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 Access Connections and Local Transport provided.

(4) FGE switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, local operator service (0- and 0+), Directory Assistance (411 where available and 555-1212), emergency reporting service (911 where available), exchange telephone repair (611 where available), time or weather announcement services of the

6. Switched Access Service (Cont'd)

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

6.2.5 Feature Group E (FGE) (Cont'd)

(A) Description (Cont'd)

(4) (Cont'd)

Telephone Company, community information services of an information provider, and other ICs' services (by dialing the appropriate digits). Charges for FGE terminating calls requiring operator assistance or calls to 611 or 911 will only apply where sufficient call details are available. For calls to services of other ICs, additional charges may apply. Additional charges will also be billed for (1) an operator surcharge as set forth in the local and/or general exchange service tariffs for local operator service (0- and 0+) calls, (2) calls to certain community information services for which rates are applicable under Telephone Company exchange service tariffs, and (3) IC call charges in accordance with the tariffs in force when the Telephone Company bills IC calls. For calls to Directory Assistance (411 where available and 555-1212), Local Transport rates for FGE Switched Access Service will not apply. Instead, Local Transport for calls to this service is subject to a per call rate as set forth in 9.6.1(B), 9.6.2(B), 9.6.3(B), 9.6.4(B) and 9.6.5(B) following. Additionally, calls to Directory Assistance are subject to the Directory Assistance Service Call rate set forth in 9.6.1(A), 9.6.2(A), 9.6.3(A), 9.6.4(A) and 9.6.5(A) following.

(5) The Telephone Company shall select the first point of switching, within the selected LATA, at which the FGE trunk group or trunk groups are to be provided unless the IC requests a different first point of switching and Telephone Company facilities and measurement capabilities are available to accommodate such a request. When required by technical limitations, a separate trunk group will be established for each type of FGE switching arrangement provided. Different types of FGE or other switching arrangements may not be combined in a single trunk group.

6. Switched Access Service (Cont'd)

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

6.2.5 Feature Group E (FGE) (Cont'd)

(B) Optional Features

(1) Common Switching Optional Features

(a) Class of Call Screening
(b) Up to 7 Digit Outpulsing of Called Party Telephone Number to IC
(c) Delay Dial Start-Pulsing Signaling
(d) Immediate Dial Pulse Address Signaling
(e) Dial Pulse Address Signaling

(2) Local Transport Optional Features

(a) IC Specification of Feature Group Directionality

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

(a) Bill Number Screening.
(b) Blocks of Telephone Numbers (originating or two-way arrangements only.)

(C) Transmission Performance

FGE is provided with either Type B or Type C Transmission Performance. The parameters associated with these performances are guaranteed to the first point of switching. Type C Transmission Performance is provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGE 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)

6.2.5 Feature Group E (FGE) (Cont'd)

(D) Testing Capabilities

FGE 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. Additional Cooperative Acceptance Testing, Automatic Scheduled Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Non-Scheduled Testing will be provided as set forth in 13. following.

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6. Switched Access Service (Cont'd)

6.3. Common Switching and Transport Termination Nonchargeable Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in addition to, the standard features provided with the Feature Groups. They are provided as 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- 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 Nonchargeable 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 IC terminal location 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 an IC's terminal location 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 an IC's terminal location.

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. Where direct trunking would not have been provided except as required by the provision of ANI, additional charges will apply for Provision of Other Than Telephone Company Selected Traffic Routing, as set forth in 6.8.2(B), 6.9.2(B), 6.10.2(B), 6.11.2(B) and 6.12.2(B) following. 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 Nonchargeable 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 B. 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 IC.

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 IC, 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.

6. Switched Access Service (Cont'd)

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

6.3.1 Common Switching Optional Features (Cont'd)

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

These ANI information digits are available with Feature Groups B, C and 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 IC and the Telephone Company.

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

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

6. Switched Access Service (Cont'd)

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

6.3.1 Common Switching Optional Features (Cont'd)

(H) Up to 7 Digit Outpulsing of Called Party Telephone Number To IC

This option provides the end office capability of providing up to 7 digits of the called party telephone number to the IC terminal location. The IC may request that only some of the digits in the telephone number be forwarded. The telephone number digits will be provided to the IC terminal location using multifrequency (MF) or dial pulse (DP) address signaling, except where this feature is provided in electromechanical end offices not equipped for MF signaling, in which case the signaling will be DP or immediate dial pulse address signaling. This option is available with Feature Group E.

(I) 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.

(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.

6. Switched Access Service (Cont'd)

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

6.3.1 Common Switching Optional Features (Cont'd)

(J) 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 Groups C and E.

(K) Immediate Dial Pulse Address Signaling

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

(L) 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 IC's terminal location (in either direction) by means of direct current pulses. It is available with Feature Groups C and E.

(M) 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.

6. Switched Access Service (Cont'd)

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

6.3.1 Common Switching Optional Features (Cont'd)

(N) Service Class Routing

This option provides the capability of directing originating traffic from an end office to a trunk group to an IC designated terminal location, 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., 600, 700, 800 or 900). It is provided in suitably equipped end office or access tandem switches and is available with Feature Groups C and D.

(O) 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 an IC designated terminal location 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 IC designated terminal location. The IC 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 B, C and D.

(P) Trunk Access Limitation

This option provides for the routing of originating 600, 700, 800 or 900 service calls to a specified number of transmission paths in a trunk group, in order to limit (choke) the completion of such traffic to the IC. Calls to the designated service which could not be completed over the subset of transmission paths in the trunk group, i.e., the choked calls, would be routed to reorder tone. It is provided in all Telephone Company electronic end offices and where available in electromechanical end offices. It is available with Feature Groups C and D.

6. Switched Access Service (Cont'd)

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

6.3.1 Common Switching Optional Features (Cont'd)

(Q) Call Gapping Arrangement

This option, provided in suitably equipped end office switches, provides for the routing of originating calls to 10XX or service code 600, 700, 800 or 900 service to be switched in the end office to all transmission paths in a trunk group at a prescribed rate of flow, e.g., one call every five seconds, in order to limit (choke) the completion of such traffic to the IC. Calls to the designated service which are denied access by this feature, i.e., the choked calls, would be routed to a no-circuit announcement. It is provided in selected Feature Group D equipped end offices and is available only with Feature Group D.

(R) International Carrier Option

This option allows for Feature Group D end offices or access tandem switches equipped for International Direct Distance Dialing to be arranged to forward the international calls of one or more international carriers to the IC. This arrangement requires provision of written verification to the Telephone Company that the IC is authorized to forward such calls. This option is only provided at Telephone Company end offices or access tandems equipped for International Direct Distance Dialing. It is available with Feature Group D.

(S) Class of Call Screening

This option provides a class mark on a FGE terminating trunk side arrangement, which allows for the restriction of terminating operator assisted (0-, 0+) calls to collect, credit card or third-number billing, where the operator system which handles such calls has the availability of recognizing such a class mark. This option is available with Feature Group E.

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6. Switched Access Service (Cont'd)

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

6.3.1 Common Switching Optional Features (Cont'd)

(T) Band Advance Arrangement for Use with Dedicated Access Line Service

This option, which is provided in association with two or more Dedicated Access Line Service (DALS) groups, provides for the automatic overflow of terminating calls to a DALS group, when that group has exceeded its call capacity, to another DALS group with a band designation equal to or greater than that of the overflowing DALS 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.

(U) End Office Customer Line Service Screening for Use with Dedicated Access Line Service

This option provides the ability to verify that a custpmer 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 customer's service agreement with the IC, i.e., WATS. This option is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices in which Dedicated Access Line Service is provided. It is available with Feature Groups C and D.

(V) Hunt Group Arrangement for Use with Dedicated Access Line Service

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

6. Switched Access Service (Cont'd)

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

6.3.1 Common Switching Optional Features (Cont'd)

(W) Uniform Call Distribution Arrangement for Use with Dedicated Access Line Service

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

(X) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Dedicated Access Line

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

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 IC terminal location 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. When direct trunking would not have been provided except as required by the provision of rotary dial station signaling, additional charges will apply for the Provision of Other Than Telephone Company Selected Traffic Routing, as set forth in 6.8.2(B), 6.9.2(B), 6.10.2(B), 6.11.2(B) and 6.12.2(B) following.

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6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Nonchargeable 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

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. When this feature may, because of technical limitations, only be provided on a directly trunked basis, and when direct trunking could not have been provided except as required by the provision of this feature, additional charges will apply for the Provision of Other Than Telephone Company Selected Traffic Routing, as set forth in 6.8.2(B), 6.9.2(B), 6.10.2(B), 6.11.2(B) and 6.12.2(B) following.

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 IC's terminal location. 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.

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

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6. Switched Access Service (Cont'd)

6.3 Common Switching and Transport Termination Nonchargeable 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)

Non-Coin: (Cont'd)
The operator assistance non-coin calling arrangement is also normally ordered by the IC in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the IC's TSPS systems, rather than in the IC'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 IC 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 IC's terminal location. 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.

This arrangement is normally ordered by the IC in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the IC's operator services systems, rather than in the IC'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 IC and the Telephone Company.

(C) Operator Trunk - Full Feature

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

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6. Switched Access Service (Cont'd)

6.4 Transmission Performance Capabilities

Each Switched Access Service transmission path is provided with a standard transmission performance. There are three different standard performances (Types A, B and C). The standard for a particular transmission path is dependent on the Interface Group and whether the service is directly routed or via an access tandem. The available transmission performances are set forth in 6.4.1 following. Data Transmission Parameters are also provided with each Switched Access Service transmission path. The Telephone Company will, upon receipt of a trouble report from the IC, conduct tests, either independently or cooperatively with the IC as appropriate, and take any necessary action to insure that the parameters set forth in 6.4.2(A) or 6.4.2(B) following are met. The testing will be charged for at the rates set forth in 13.3.5, 13.6.5, 13.9.5, 13.12.5 and 13.15.5, (C)(1)(e) following for Nonscheduled Testing.

The Telephone Company will maintain existing transmission performance on service configurations installed prior to January 1, 1984. All service configurations installed after January 1, 1984 will conform to the transmission performance standards contained in this tariff, except as follows. Where local facility conditions cannot support the transmission performance standards contained in this tariff, transmission standards that can be supported will be uniformly applied to all ICs.

6.4.1 Standard Transmission Performance

Following are descriptions of the three Standard Transmission Performances available with Switched Access Service. Their specific applications in terms of the Feature Groups and Interface Groups with which they are provided are set forth in 6.2.1(C), 6.2.2(C), 6.2.3(C), 6.2.4(C) and 6.2.5(C) preceding.

(A) Transmission Performance Type A

Transmission Performance Type A 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 ± 2.0 dB

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6. Switched Access Service (Cont'd)

6.4 Transmission Performance Capabilities (Cont'd)

6.4.1 Standard Transmission Performance (Cont'd)

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

(2) Attenuation Distortion

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

(3) C-Message Noise

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

Route Miles	C-Message Noise
less than 50	32 dBrnCO
51 to 100	34 dBrnCO
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 dBmO holding tone, is less than or equal to 45 dBrnCO.

(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 IC Point of Interface (POI) to the end office or via an access tandem. It is equal to or greater than the following:

6. Switched Access Service (Cont'd)

6.4 Transmission Performance Capabilities (Cont'd)

6.4.1 Standard Transmission Performance (Cont'd)

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

(5) (Cont'd)

	Echo Return Loss	Singing Return Loss
POI to Access Tandem	21 dB	14 dB
POI 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 interface shall be equal to or greater than:

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

(B) Transmission Performance Type B

Transmission Performance Type B 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 ± 2.5 dB.

(2) Attenuation Distortion

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

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6. Switched Access Service (Cont'd)

6.4 Transmission Performance Capabilities (Cont'd)

6.4.1 Standard Transmission Performance (Cont'd)

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

(3) C-Message Noise

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

Route Miles	C-Message Noise*: Type B1	Type B2
less than 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

* For Feature Groups C, D and E, only Type B2 will be provided. For Feature Groups A and B, Type B1 will be provided where facility network conditions will support the parameters. Where the Type B1 parameters cannot be supported, Type B2 will be provided.

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6. Switched Access Service (Cont'd)

6.4 Transmission Performance Capabilities (Cont'd)

6.4.1 Standard Transmission Performance (Cont'd)

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

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnC0.

(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGC, FGD and FGE, 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 IC Point of Interface (POI) to the end office or via an access tandem. The ERL and SRL also differ by Feature Group, type of termination, and type of transmission path. They are greater than or equal to the following:

	Echo Return Loss	Singing Return Loss
POI to Access Tandem		
- Terminated in 4-Wire trunk	21 dB	14 dB
- Terminated in 2-Wire trunk	16 dB	11 dB
POI to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem		
For FGB access	8 dB	4 dB
For FGC access (Effective 4-Wire transmission path at end office)	16 dB	11 dB
For FGC access (Effective 2-Wire transmission path at end office)	13 dB	6 dB

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Transmission Performance Capabilities (Cont'd)

6.4.1 Standard Transmission Performance (Cont'd)

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

(6) Standard Return Loss

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

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

(C) Transmission Performance Type C

Transmission Performance Type C 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 ± 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:

6 Switched Access Service (Cont'd)

6.4 Transmission Performance Capabilities (Cont'd)

6.4.1 Standard Transmission Performance (Cont'd)

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

(3) C-Message Noise (Cont'd)

Route Miles	C-Message Noise* Type C1	Type C2
less than 50	32 dBrnC0	38 dBrnC0
51 to 100	33 dBrnC0	39 dBrnC0
101 to 200	35 dBrnC0	41 dBrnC0
201 to 400	37 dBrnC0	43 dBrnC0
401 to 1000	39 dBrnC0	45 dBrnC0

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnC0.

(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 IC Point of Interface (POI) to the end office or via an access tandem. It is equal to or greater than the following:

	Echo Return Loss	Singing Return Loss
POI to Access Tandem	13 dB	6 dB
POI to End Office - Direct	13 dB	6 dB
- Via Access Tandem (for FGB only)	8 dB	4 dB

* For Feature Groups C, D and E only Type C2 will be provided. For Feature Groups A and B, Type C1 will be provided where facility network conditions will support the parameters. Where the Type C1 parameters cannot be supported, Type C2 will be provided.

6. Switched Access Service (Cont'd)

6.4 Transmission Performance Capabilities (Cont'd)

6.4.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided. 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), 6.2.4(C) and 6.2.5(C) preceeding. 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.

(2) Envelope Delay Distortion

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

604 to 2804 Hz	
less than 50 route miles	500 microseconds
equal to or greater than 50 route miles	900 microseconds

1004 to 2404 Hz	
less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Transmission Performance Capabilities (Cont'd)

6.4.2 Data Transmission Parameters (Cont'd)

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

(5) Phase Jitter

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

(6) Frequency Shift

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

(B) Data Transmission Parameters Type DB

(1) Signal to C-Notched Noise Ratio

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

(2) Envelope Delay Distortion

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

604 to 2804 Hz	
less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds

1004 to 2404 Hz	
less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

(3) Impulse Noise Counts

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Transmission Performance Capabilities (Cont'd)

6.4.2 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(4) Intermodulation Distortion

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

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

(5) Phase Jitter

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

(6) Frequency Shift

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

ACCESS SERVICE

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. The Telephone Company maintains the right to apply protective controls on any traffic that it carries over its network, including an IC's Switched Access Service, in order to prevent unsatisfactory performance to other users.

6.5.2 Design and Traffic Routing of Switched Access Service

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 unless the IC orders the optional feature Provision of Other Than Telephone Company Selected Traffic Routing. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups unless the IC orders the optional feature IC Specification of Feature Group Directionality. 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. However, for Feature Group B the IC may order the optional feature IC Specification of Local Transport Termination. 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.

6.5.3 Provision of Service Performance Data

With the agreement of the Telephone Company, service performance data for an IC's Switched Access Service may be made available to the IC, based on previously arranged intervals and format. These data may include, but are not limited to, IC equipment blockage, failure results and transmission performance. If the data are to be provided through a mechanized exchange of data, the cost of such

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Obligations of the Telephone Company (Cont'd)

6.5.3 Provision of Service Performance Data (Cont'd)

exchange will be determined on an individual case basis and must be borne by the IC. Provision of the data in paper format will be at no charge.

6.5.4 Trunk Group Measurements Reports

With the agreement of the Telephone Company, trunk group data in the form of usage in CCS, peg count and overflow, where technologically feasible, will be made available to the IC based on previously agreed to intervals.

6.5.5 Determination of Number of Transmission Paths

The Telephone Company will determine the number of Switched Access Service transmission paths to be provided for the Switched Access 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 an IC, End User or Telephone Company location and another IC, End User or Telephone Company location. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in 6.1.3 (A) preceding) for the end offices for each Feature Group ordered from an IC terminal location. The total busy hour minutes of capacity by type for the Feature Group end office will be converted to transmission paths using standard Telephone Company traffic engineering methods for all Feature Groups except for FGA, which will be converted on the basis of 30 busy hour minutes of capacity per transmission path. 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.

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6. Switched Access Service (Cont'd)

6.5 Obligations of the Telephone Company (Cont'd)

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.

The Telephone Company will maintain existing blocking performance on service configurations installed prior to January 1, 1984. All service configurations installed after January 1, 1984 will conform to the blocking objectives contained in this tariff, except as follows. Where local facility conditions cannot support the blocking objectives contained in this tariff, blocking objectives that can be supported will be uniformly applied to all ICs.

(A) For Feature Group A, no design blocking criteria apply.

(B) For Feature Groups B, C and E, the design blocking objective will be no greater than one percent (.01) between the point of interface at the IC terminal location 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 interface at the IC terminal location 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 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 Group A to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional busy hour minutes of capacity be ordered by the IC when additional paths are required to reduce the measured blocking to the designed blocking level. For the busy hour minutes of 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.

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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) For transmission paths carrying only first routed traffic direct between an end office and an IC terminal location without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Average Business Day Measurements 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 an IC terminal location via an access tandem, the measured blocking thresholds are as follows:

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

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6. Switched Access Service (Cont'd)

6.6 Obligations of the IC

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

6.6.1 Report Requirements

IC's are responsible for providing the following reports to the Telephone Company, when applicable.

(A) Jurisdictional Reports

When an IC orders Switched Access Service for both interstate and intrastate use, the IC is responsible for providing reports as set forth in 2.3.14 preceding. Charges will be apportioned in accordance with those reports. The method to be used for determining the interstate charges is set forth in 2.3.15 preceding.

(B) LATA Default Percent Interstate Use (PIU) Report

When an IC orders Switched Access to any end office in a LATA, it must provide a projected percentage of interstate use that will serve as a default PIU for the entire LATA. This figure will be used to apportion charges for usage measured at end offices to which the IC has not ordered capacity.

(C) Code Screening Reports

When an IC orders Service Class Routing, Trunk Access Limitation or Call Gapping Arrangements, it must report the number of trunks and/or the appropriate codes to be instituted in each end office or access tandem switch, for each of the arrangements ordered.

6.6.2 On and Off-Hook Supervision

The IC facilities shall provide the necessary on and off-hook supervision.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Obligations of the IC (Cont'd)

6.6.3 Trunk Group Measurements Reports

With the agreement of the IC, 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 Types 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.

(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 three types of nonrecurring charges that apply for Switched Access Service are: installation of service, installation of optional feature(s), and service rearrangements.

(1) Installation of Service

Nonrecurring charges apply to each service (i.e., busy hour minute of capacity) installed.

(2) Installation of Optional Features

Nonrecurring charges apply for the installation of the various optional features available with the Switched Access Service Local Transport rate element. The other

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(2) Installation of Optional Features (Cont'd)

optional features are installed at no additional cost to the IC other than the cost of the basic service (busy hour minutes of capacity nonrecurring charge) with which the features are associated.

(3) Service Rearrangements

Nonrecurring charges apply for service rearrangements. Service rearrangements are changes to existing services that do not result in a change to any of the following: (1) address of the IC terminal location or the end office, (2) Feature Group type, or (3) type of capacity. Changes of this nature constitute a discontinuance and start of service.

Service Rearrangement Charges are based on the nonrecurring (i.e., installation) charge of the service being changed. Following are the service rearrangements that are allowable for Switched Access Service and the appropriate levels of charging.

Type of Change	Level of Charging
Change in Access Connection or Transport Termination Supervisor Signaling (e.g., loop start to ground start)	1/2 of the Access Connection nonrecurring charge ($/BHMC) for the capacity being changed
Change in type of Address Signaling (e.g., dial pulse to multifrequency)	1/2 of the Access Connection nonrecurring charge ($/BHMC) for the capacity being changed

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

Type of Change	Level of Charging
Change in Access Connection Interface Group (e.g., two-wire to group level)	Full Access Connection nonrecurring charge ($/BHMC) for the capacity being changed
Change in Transport Termination (e.g., FGB standard to rotary dial station signaling)	1/2 of the Access Connection nonrecurring charge ($/BHMC) for the capacity being changed
Change in Provision of Other Than Telephone Company Selected Traffic Routing (e.g. tandem in lieu of direct, to direct)	Full Access Connection nonrecurring charge ($/BHMC) for capacity being changed
Change in Dedicated Access Line Service (e.g., change type of termination from line to trunk or change end office switching features)	1/2 of the SAL non-recurring charge as set forth in 7.5.4, 7.6.4, 7.7.4, 7.8.4 and 7.9.4, (1) through (5) following per Dedicated Access Line Service Charge

In cases where multiple service rearrangements or a move and a service rearrangement are requested on a single order, the total charge (i.e., the Service Rearrangement Charge or the Service Rearrangement and the Move Charge) will never exceed the full nonrecurring charge for the basic service.

6.7.2 Minimum Periods

Switched Access Service is provided for a specified minimum period. The minimum period and the applicable charges for that

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.2 Minimum Periods (Cont'd)

period are dependent on the interval (i.e., standard, negotiated or short notice) under which service is provided. Minimum periods and minimum period charges are described in detail in 5. preceding.

6.7.3 Switched Access Service for Resale of Other IC Service

When the IC plans to use Switched Access Service to collect the traffic of its customers in association with the resale of an IC service that is provided through the use of originating only Special Access Dedicated Access Line Service provided under this tariff (e.g., resale of WATS), the following regulations, rates and charges shall apply.

(A) The IC shall notify the Telephone Company in writing that Switched Access Service is to be used in association with the resale of Dedicated Access Line Service. With its notification, the IC shall furnish the following data:

- The number of Dedicated Access Line Services in the LATA with 2500 or more originating access minutes per month that it is reselling in association with the Switched Access Service, and

- The IC terminal location (i.e., closed end End User location) where the Dedicated Access Line Services are terminated, and

- When both line side (i.e., FGA) and trunk side (i.e., FGB, FGC, FGD and FGE) Switched Access Service are used in association with the resale of Dedicated Access Line Service, the number of Dedicated Access Line Services to be associated with each line side and trunk side Switched Access Service. If this split is not reported, the Telephone Company will assume all the Dedicated Access Line Services with 2500 or more originating access minutes are to be associated with line side Switched Access Service.

The preceding information and the information required in (B) following must be reported for each LATA in which the IC is reselling services. For those LATAs that are multistate LATAs,

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.3 Switched Access Service for Resale of Other IC Service (Cont'd)

(A) (Cont'd)

the IC must report the information by state within the LATA. In order for the rate treatment in (D) following to apply, both the Switched Access Service and the associated Dedicated Access Line Services must be in the same state and be provided by the same Telephone Company.

(B) Each of the Switched Access Services used by the IC in association with the resale of Dedicated Access Line Service must be in the same LATA as the Dedicated Access Line Services in order for such Switched Access Service to be rated as set forth in (D) following. The Switched Access Service must also be connected either directly or indirectly to the IC terminal location at which the associated Dedicated Access Line Services are terminated. Direct connections are those where the Switched Access Service is terminated at the same IC terminal location. Indirect connections are those where the Switched Access Service is terminated at a second IC terminal location in the same LATA, which is in turn connected to the first IC terminal location by facilities that can be used by the Switched Access Service to reach the first IC terminal location (i.e., the IC terminal location where the Dedicated Access Line Services are terminated). When more than one IC terminal location is involved in a LATA, the IC shall notify the Telephone Company in writing and shall report the locations of the involved IC terminal locations.

(C) For the initial month, the data that the IC reports as set forth in (A) and (B) preceding will be used by the Telphone Company to determine the rates and charges as set forth in (D) following. For each subsequent month, the IC must update the report per (A) and (B) preceding for each LATA for the preceding monthly period unless the Telephone Company notifies the IC that it has sufficient information to substantiate the rate treatment set forth in (D) following. The monthly period used to determine the 2500 originating access minutes per Dedicated Access Line Service shall be the most recent monthly period for which the IC has received a bill for the Dedicated Access Line Services. This updated report shall show the bill

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.3 Switched Access Service for Resale of Other IC Service (Cont'd)

(C) (Cont'd)

date for the Dedicated Access Line Services. The report 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 Dedicated Access Line Services bill. If an updated report is required but is not received by the Telephone Company during the monthly period after the initial monthly period, the Telephone Company will assume there are no resold Dedicated Access Line Services associated with Switched Access Services in the LATA. The rate treatment set forth in (D) following will not apply in these cases.

(D) When the IC reports Switched Access Services associated with the resale of Dedicated Access Line Services in a LATA as set forth in (A), (B) and (C) preceding, and the Telephone Company verifies the reports are accurate, such Switched Access Services will be rated as follows.

(1) For line side Switched Access Services (i.e., FGA) in a LATA associated with the resale of Dedicated Access Line Services, the LATA access minutes used to determine the charges for Local Transport, Local Switching (LS1), Line Termination and Intercept will be reduced by 2500 access minutes for each Dedicated Access Line Service with at least 2500 originating access minutes reported by the IC as set forth in (A), (B) or (C) preceding. However, the access minutes for the line side Switched Access Services in the LATA, adjusted as set forth in this or any other section of this tariff, that are billed to an IC in a monthly period shall not be less than zero. When the prorate involves Local Transport usage in more than one mileage band, the prorate will be applied to each mileage band in proportion to the actual usage in that band. The adjustment will be made to the involved IC account no later than either the next bill date, or the one subsequent to that, depending on when the report is received.

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6 Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.3 Switched Access Service for Resale of Other IC Service (Cont'd)

(D) (Cont'd)

(1) (Cont'd)

Where the interexchange service for which the Dedicated Access Line Service is provided is billed to the IC by service group and/or in a unit other than minutes, the IC shall convert these as follows:

If the billing is in hours, convert the hours to access minutes by multiplying the hours by 60.

If the billing is by service group, divide the total access minutes on the monthly bill by the number of Dedicated Access Line Services in the service group to determine the access minutes per Dedicated Access Line Service.

(2) For each Dedicated Access Line Service used as set forth in (1) preceding to reduce the line side Switched Access Service access minutes in a LATA, a local business line rate as set forth in 6.8.4, 6.9.4, 6.10.4, 6.11.4 and 6.12.4 shall apply. The exchange involved shall be the exchange in which the IC terminal location at which the Dedicated Access Line Services are terminated is located. When more than one IC terminal location is involved, local business line rates for both exchanges shall be used. The number of involved Dedicated Access Line Services terminated at each location shall be used to determine the appropriate number of local business line rates. However, the number of local business line rates, as set forth in 6.8.4, 6.9.4, 6.10.4, 6.11.4 and 6.12.4 following, applied in a LATA shall not exceed the number of line side Switched Access Services provided to the IC (i.e., total number of busy hour mintues of capacity divided by 30).

(E) When the IC notifies the Telephone Company that Switched Access Service is to be used in association with the resale of Dedicated Access Line Service, the notification automatically grants the Telephone Company the right to audit (1) the IC terminal locations to verify the use of facilities as reported in (A), (B), or (C) preceding, and (2) all of the records,

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.3 Switched Access Service for Resale of Other IC Service (Cont'd)

(E) (Cont'd)

work papers and back up documentation for each report as set forth in (A), (B) or (C) preceding. The Telephone Company also has the right to contact and review the records of other involved entities to verify the data the IC reports is accurate.

All of the records, work paper and backup documentation for each report furnished the Telephone Company as set fort in (A), (B) or (C) preceding shall be available (for one year from the date of the report) during normal business hours at an IC location in the involved LATA, upon reasonable request by the Telephone Company, in order to permit a review by the Telephone Company auditor or outside auditor under contract to the Telephone Company. If the records, work papers and backup documentation are not provided or are insufficient or not in accordance with the provision of this paragraph and (A), (B) and (C) preceding, the adjustments and rates as set forth in (D) preceding shall not apply until the deficiencies are corrected and new reports as required in (A), (B) and (C) preceding are delivered to the Telephone Company.

(F) When the IC reports line side and/or trunk side Switched Access Service associated with the resale of Dedicated Access Line Service in a LATA, as set forth in (A), (B) or (C) preceding, the regulations set forth in 3.7(D) preceding shall apply.

(G) When the IC reports line side and/or trunk side Switched Access Service associated with the resale of Private Line Service (including WATS - type service) which is provided with the use of Special Access Service, other than Dedicated Access Line Service, the regulations set forth in 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 number of Feature Groups (by type of Feature Group, by type of busy hour minute of capacity) provided to each end office. The minimum monthly charge consists of the following elements:

6 Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.4 Minimum Monthly Charge (Cont'd)

For those rate elements that are billed a flat monthly rate, i.e., Local Transport Optional Features, the minimum monthly charge is the monthly rate as set forth in 6.8.2(B), 6.9.2(B), 6.10.2(B), 6.11.2(B) and 6.12.2(B) following.

The minimum monthly charge for the Local Switching, Line Termination and Intercept rate elements is the charge set forth in 6.8.3, 6.9.3, 6.10.3, 6.11.3 and 6.12.3, (A), (B) and (C) following for the actual usage for the month, adjusted as set forth in 6.7.3(D)(1) preceding.

For the Local Transport rate element, 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(D)(1) preceding, is higher than the MMUC, the IC pays the actual usage charge. If the Local Transport usage charge is lower than the MMUC, the IC pays the MMUC. The MMUC is determined as set forth in 6.7.5 following. Rates for actual usage are set forth in 6.8.2(A), 6.9.2(A), 6.10.2(A), 6.11.2(A) and 6.12.2(A) following.

6.7.5 Minimum Monthly Usage Charge (MMUC)

The Minimum Monthly Usage Charge (the minimum transport charge) varies by mileage band and capacity.

The MMUC is as follows:

IOWA Charges:

Mileage Bands	Minimum Transport Charges per BHMC*
0 to 1	
Over 1 to 8	
Over 8 to 16	
Over 16 to 25	
Over 25 to 50	
Over 50 to 100	
Over 100	

*BHMC is the Access Connections busy hour minutes of capacity provided to the end office.

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6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.5 Minimum Monthly Usage Charge (MMUC) (Cont'd)

MINNESOTA Charges:

Mileage Bands	Minimum Transport Charges per BHMC*
0 to 1	
Over 1 to 8	
Over 8 to 16	
Over 16 to 25	
Over 25 to 50	
Over 50 to 100	
Over 100	

NEBRASKA Charges:

Mileage Bands	Minimum Transport Charges per BHMC*
0 to 1	
Over 1 to 8	
Over 8 to 16	
Over 16 to 25	
Over 25 to 50	
Over 50 to 100	
Over 100	

NORTH DAKOTA Charges:

Mileage Bands	Minimum Transport Charges per BHMC*
0 to 1	$ .5550
Over 1 to 8	$ .9750
Over 8 to 16	$ 2.2575
Over 16 to 25	$ 4.1850
Over 25 to 50	$ 4.5150
Over 50 to 100	$ 4.2150
Over 100	$ 4.3500

*BHMC is the Access Connections busy hour minutes of capacity provided to the end office.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.5 Minimum Monthly Usage Charge (MMUC) (Cont'd)

SOUTH DAKOTA Charges:

Mileage Bands	Minimum Transport Charges per BHMC*
0 to 1	
Over 1 to 8	
Over 8 to 16	
Over 16 to 25	
Over 25 to 50	
Over 50 to 100	
Over 100	

*BHMC is the Access Connections busy hour minutes of capacity provided to the end office.

The MMUC billed to the IC for Feature Group B, C, D and E 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 A, the MMUC will be billed to the IC at the line or hunt group level or other level of account.

For FGA, when a prorate as set forth in 6.7.3 preceding is involved, the busy hour minutes of capacity per mileage band will be reduced in the same proportion that the Local Transport actual usage is reduced. (See 6.7.3(D)(1) preceding).

The Minimum Monthly Usage Charge is not applied to Telephone Company assumed average number of access minutes for those Feature Groups A, B and E for which measurement capabilities do not exist. In these cases, the IC will always be billed for the assumed average number of access minutes; adjusted as set forth in 6.7.3(D)(1) preceding if required for Feature Group A.

ACCESS SERVICE

5. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

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 IC upgrades a Feature Group B, C or E service to a Feature Group D service of the same capacity in the same end office, the nonrecurring charges will not apply. If, however, additional Local Transport optional features are added to the service at the time the conversion takes place, the nonrecurring charges for the added features will apply.

6.7.7 Moves

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

- The point of interface at the IC terminal location
- The IC terminal location

The 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 busy hour minute of capacity nonrecurring charge for the capacity affected. There will be no change in the minimum period requirements.

(B) Moves to a Different Building

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.8 Measuring Access Minutes

IC traffic to end office switches 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 access minutes. Access minutes on a terminating call start when the called telephone exchange service location answers and end when the access tandem switch or end office switch receives a disconnect signal. Access minutes on an originating call start when the IC terminal location acknowledges the call and end when the access tandem switch or end office switch receives a disconnect signal.

The assumed average access minutes are as set forth in 3.7(C) except as set forth following.

6.7.9 Network Blocking Charge for Feature Group D

The IC will be notified by the Telephone Company to increase its Access Connection busy hour minutes of capacity when excessive trunk group blocking occurs on groups carrying Feature Group D traffic and the measured access minutes for that hour exceed that 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 IC, at the rate set forth in 6.8.1(C), 6.9.1(C), 6.10.1(C), 6.11.1(C) and 6.12.1(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 Access Connection capacity purchased.

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.9 Network Blocking Charge for Feature Group D (Cont'd)

Blocking Thresholds

Trunks in Service	1%	1/2%
1-2	.070	.045
3-4	.050	.035
5-6	.040	.025
7 or greater	.030	.020

The 1% blocking threshold is for transmission paths carrying traffic direct (without an alternate route) between an end office and an IC terminal location. The 1/2% blocking threshold is for transmission paths carrying first routed traffic between an end office and an IC terminal location via an access tandem.

6.7.10 Application of Rates for Feature Group A Extension Service

Feature Group A Switched Access Service is available with extensions, i.e., additional terminations of the service at different 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. Extensions in different LATAs are provided and charged for as Special Access Service. The rate elements which apply are: Special Transport (from the extension bridging point to the IC serving wire center), Access Connections and one half of the appropriate facility interface combination monthly rates and nonrecurring charges.

6.7.11 Message Unit Credit

Calls from End Users to the seven digit local telephone numbers associated with Feature Groups A or E Switched Access Service are subject to Telephone Company local and/or general exchange service tariff charges, as well as any other applicable charges for IC services. The monthly bills rendered to ICs for their Feature Groups A and E Switched Access Service will include a credit to reflect any message unit charges collected from their customers

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.11 Message Unit Credit (Cont'd)

under the Telephone Company's local and/or general exchange service tariffs. No Message Unit Credit is give on the access minutes that have been prorated as set forth in 6.7.3 preceding.

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, 6.9, 6.10, 6.11 and 6.12 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 IC serving wire center, except as set forth in (A) through (E) following. The V&H coordinates method is used to determine mileage. This method is set forth in EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 2 for Wire Center Information (V&H coordinates).

Mileage is shown in 6.8.2, 6.9.2, 6.10.2, 6.11.2 and 6.12.2 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.

Exceptions to the mileage measurement rules are as follows:

(A) Mileage for access minutes of use in the originating direction over Feature Groups A and E Switched Access Service will be calculated on an airline basis, using the V&H coordinates method, between the end office switch where the Feature Groups A and E End Office switching dial tone is provided and the IC serving wire center for the Switched Access Service provided.

(B) When a non AT&T IC terminal location is within five miles of an AT&T Class 4 office, the Local Transport mileage for a call which is carried over a Switched Access Service, originating

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.13 Mileage Measurement (Cont'd)

(B) (Cont'd)

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 IC specifies that for an entire LATA, it wants all measurements determined from its serving wire center. This designation (i.e., which serving wire center to use in calculating mileage) may be changed only once in any 12 month period and when it is changed, the IC will be billed for the change as set forth in 5.6 preceding.

(C) When the Alternate Traffic Routing optional feature is provided with Feature Groups B, C and D, the Local Transport access minutes mileage for all calls shall be the mileage to the most distant IC serving wire center from the end office switch where the arrangement is provided. If Feature Group B alternate routed traffic has the shorter of the two routes within five miles of an AT&T Class 4 office, then the shorter route will apply for measuring mileage if the IC has opted for the five mile rule in (B) above.

(D) When Feature Group A, B or E Switched Access Service terminates in end offices not equipped with measurement capabilities, mileage will be calculated from the IC serving wire center to the entry switch.

(E) When terminating Feature Group C Switched Access Service is provided from multiple IC terminal locations to an end office not equipped with measurement capabilities, all mileage will be calculated from the most distant IC serving wire center.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota

6.11.1 Access Connections

	USOC	Nonrecurring Charges
(A) Interface Group Service		
- Per Busy Hour Minute of Capacity Ordered	BHM++	$10.00
Following are the options to be used in place of the ++		
DA - Directory Assistance DD - Domestic Dialed Traffic FA - Feature Group A OP - Operator OT - Originating Traffic TT - Terminating Traffic ID - International Dialed Traffic 80 - 800 Traffic 90 - 900 Traffic		
Interface Groups:		
Group 1, Two-Wire path with Loop signaling	TPP1X	
Group 2, Four-Wire path with Loop signaling	TPP2X	
Group 3, Group level path with SF signaling	TPP3X	
Group 4, Supergroup level path with SF signaling	TPP4X	
Group 5, Mastergroup level path with SF signaling	TPP5X	
Group 6, DS1 level path with Bit Stream signaling	TPP6X	

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.1 Access Connections (Cont'd)

	USOC
(A) Interface Group Service (Cont'd)	
Interface Groups: (Cont'd)	
Group 7, DS1C level path with Bit Stream signaling	TPP7X
Group 8, DS2 level path with Bit Stream signaling	TPP8X
Group 9, DS3 level path with Bit Stream signaling	TPP9X
Group 10, DS4 level path with Bit Stream signaling	TPPAX
(B) Interface Group Nonchargeable Optional Features	FID
(1) Supervisory Signaling	
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+

* Available with Interface Groups 1 and 2.
** Available with Interface Groups 2 and 6 through 10.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.1 Access Connections (Cont'd)

(B) Interface Group Nonchargeable Optional Features (Cont'd)	FID
(1) Supervisory Signaling (Cont'd)	
E&M Type III Supervisory Signaling Arrangement - Per Transmission Path*	NCI ++EC+
Tandem Supervisory Signaling Arrangement - Per Transmission Path**	NCI ++EX+
(2) IC Specified Entry Switch Receive Level	
IC Specification of the Receive Transmission Level at the First Point of Switching within a Range Acceptable to the Telephone Company - Per Transmission Path***	TLV
(C) Network Blocking Charge	Rate Per Call Blocked
- Per Call****	$ .0150

* Available with Interface Group 2 for FGC and FGD.
** Available with Interface Group 2 for FGA.
*** Available with Interface Groups 2 through 10 for FGA, FGB and FGE.
**** Applies to FGD.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.2 Local Transport

(A) Call Miles	Rates Per Access Minute
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

(B) Optional Features	USOC	Monthly Rates	Nonrecurring Charges
Provision of Other Than Telephone Company Selected Traffic Routing (Available with FGB, FGC and FGD)			
- Direct Trunking in lieu of Tandem Trunking	1RTD+	ICB rates and charges apply	
- Tandem Trunking in lieu of Direct Trunking	1RTT+	ICB rates and charges apply	
IC Specification of Feature Group Directionality (Available with FGB, FGC*, FGD and FGE)			
- One-Way Operation in lieu of Two-Way Operation	1DSO+	ICB rates and charges apply	
- Two-Way Operation in lieu of One-Way Operation	1DST+	ICB rates and charges apply	

* For FGC this option is available only in electronic end offices.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.2 Local Transport (Cont'd)

(B) Optional Features (Cont'd)

	USOC	Monthly Rates	Nonrecurring Charges
IC Specification of Local Transport Termination (Available with FGB with Type B Transmission Performance)			
- Four-Wire Termination in in lieu of Two-Wire Termination	LT1++	ICB rates and charges apply	

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.3 End Office

(A) Local Switching

	Rates Per Access Minute
LS1 - Feature Groups A, B & E	[illegible]
LS2 - Feature Groups C & D	[illegible]

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.3 End Office (Cont'd)

(A) Local Switching (Cont'd)

(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
Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement (Available with FGA) - Per Transmission Path	NHN

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.3 End Office (Cont'd)

(A) Local Switching (Cont'd)

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

	FID
Automatic Number Identification (Available with FGB, FGC and FGD) - Per End Office	ANI
Up to 7 Digit Outpulsing of Access Digits to IC (Available with FGB) - Per Entry Switch	USDO
Up to 7 Digit Outpulsing of Called Party Telephone Number to IC (Available with FGE) - 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 and FGE) - Per Transmission Path Group	DDSP

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.3 End Office (Cont'd)

(A) Local Switching (Cont'd)

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

	FID
Immediate Dial Pulse Address Signaling (Available with FGC and FGE) - Per Transmission Path Group	ADS IDP
Dial Pulse Address Signaling (Available with FGC and FGE) - 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 FGB, FGC and FGD) - Per Transmission Path Group	ARTG

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.3 End Office (Cont'd)

(A) Local Switching (Cont'd)

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

	FID
Trunk Access Limitation Arrangement (Available with FGC and FGD) - Per End Office	CHOK
Call Gapping Arrangement (Available with FGD) - Per End Office	CGAP
International Carrier Option (Available with FGD) - Per End Office and Access Tandem	INCO
Class of Call Screening (Available with FGE) - Per Transmission Path Group	SCRN
Band Advance Arrangement for Use with Dedicated Access Line Service (Available with FGC and FGD) - Per Arrangement	BAAD

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.3 End Office (Cont'd)

(A) Local Switching (Cont'd)

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

	FID
End Office Customer Line Service Screening for Use with Dedicated Access Line Service* (Available with FGC and FGD) - Per Transmission Path	BAND
Hunt Group Arrangement for Use with Dedicated Access Line Service (Available with FGC and FGD) - Per Transmission Path Group	HML/HTG
Uniform Call Distribution Arrangement for Use with Dedicated Access Line Service (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 Dedicated Access Line Service (Available with FGC and FGD) - Per Transmission Path	NHN

* This feature is required for Dedicated Access Line Service

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.3 End Office (Cont'd)

(A) Local Switching (Cont'd)

(2) Transport Termination Nonchargeable Options

	FID
(a) Line Side Terminations (For FGA)	
Two Way Operation	
- Dial Pulse with Loop Start	NC +++A
- Dial Pulse with Ground Start	NC +++E
- DTMF with Loop Start	NC +++F
- DTMF with Ground Start	NC +++G
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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.3 End Office (Cont'd)

(A) Local Switching (Cont'd)

(2) Transport Termination Nonchargeable Options

	FID
(b) Trunk Side Terminations (For FGB, FGC, FGD and FGE)	
Standard Trunk for Originating, Terminating or Two-Way Operation (Available with FGB, FGC, FGD and FGE)	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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11. Rates and Charges for the State of North Dakota (Cont'd)

6.11.3 End Office (Cont'd)

(B) Line Terminations

	Rates Per Access Minute
(1) Common Line and Dedicated Access Line Service Terminations	[illegible] FID
(2) Dedicated Access Line Service Terminations 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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.3 End Office (Cont'd)

(B) Line Terminations (Cont'd)

FLD

(2) Dedicated Access Line Service Terminations Nonchargeable Options (Cont'd)

(a) Line Side Terminations: (Cont'd)

Terminating Only Loop Start, Line Side Connection - Per Transmission Path	NC +++U
Terminating Only Ground Start, Line Side Connection - Per Transmission Path	NC +++V

(b) Trunk Side Terminations:

Terminating Only Trunk Side Connection for Forwarding of Dialed Number Identifidation to End User - Per Transmission Path	NC +++T

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.3 End Office (Cont'd)

(C) Intercept

	Rates Per 100 Access Minutes
Intercept Charge (for All Access Minutes)	$ [illegible]

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Rates and Charges for the State of North Dakota (Cont'd)

6.11.4 Local Business Line Rates for Resold Services

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 service rates as set forth in the general and/or local exchange service tariffs of the Telephone Company applicable to the exchange involved and type of equipment at the IC terminal location. The local business line rate also includes any End User Access Service charges authorized by the F.C.C. and/or state regulatory commissions.