

DOCKET NO. 930584-TL

REQUEST TO ESTABLISH DOCKET

Date June 16, 1993

1. Division Name/Staff Name Drew/Reith

2. OPR CMU

3. OCR _____

4. Suggested Docket Title Request for approval of tariff filing to provide an additional enhancement to its Switched Data Service offering by GTE Florida, Incorporated (T-93-336, filed 6-11-93).

5. Suggested Docket Mailing List (attach separate sheet if necessary)

A. Parties (provide names of regulated companies; provide names and addresses of nonregulated companies; provide names, addresses, and affiliation (i.e., attorney, company liaison officer, or customer) of individuals)

GTE Florida

B. Interested Persons/Companies (Provide names, complete mailing addresses, and affiliation. Use abbreviation from list below if Interested Persons should include all regulated companies in one or more industries.)

REGULATED INDUSTRIES

- | | |
|--|--|
| <input type="checkbox"/> Investor-Owned Electrics (EI) | <input checked="" type="checkbox"/> Local Exchange Telephone Cos. (TL) |
| <input type="checkbox"/> Electric Cooperatives (EC) | <input type="checkbox"/> Interexchange Telephone Cos. (TI) |
| <input type="checkbox"/> Municipal Electrics (EM) | <input type="checkbox"/> Coin-Operated Telephone Cos. (TC) |
| <input type="checkbox"/> Gas Utilities (GU) | <input type="checkbox"/> Shared Tenant Telephone Cos. (TS) |
| <input type="checkbox"/> Wastewater Utilities (SU) | <input type="checkbox"/> Alternate Access Vendors (TA) |
| <input type="checkbox"/> Water Utilities (WU) | |

6. Check One:

Documentation attached.

Documentation will be provided with recommendation.

DOCUMENT NUMBER-DATE
06486 JUN 16 83
PSC-RECORDS/REPORTING



T - 93 - 335

GTE Telephone Operations
South Area

One Tampa City Center
Post Office Box 110, MC 616
Tampa, Florida 33601-0110
June 9, 1993

Mr. Walter D'Haeseleer, Director
Division of Communications
Florida Public Service Commission
101 East Gaines Street
Tallahassee, Florida 32399-0865

Dear Mr. D'Haeseleer:

Enclosed are four (4) copies of the following pages from our General Services
Tariff:

Index

32nd Revised Index Page 4

Section A10

1st Revised Contents Page 2
Original Pages 72 through 77

This proposed tariff filing offers a new service entitled Frame Relay Service (FRS). Frame Relay Service is a "fast packet" network service that permits the transmission of data at speeds from 56 Kbps to 1.544 Mbps using Permanent Virtual Connections (PVCs). PVCs are logical circuits that define a specific one-way path for data sent by the customer to another location. These circuits are virtual because they are established in software tables and do not tie up capacity when not in use. This also allows multiple PVCs to be defined over a single access line, thereby providing a single access line the capability to transmit data to multiple destinations. This capability represents a significant advantage over traditional point-to-point arrangements.

It would be appreciated if you would handle this filing with the Commissioners and members of the Staff, as appropriate, for approval.

Acknowledgement, date of receipt, and authority number of this filing are requested. A duplicate letter of transmittal is enclosed for this purpose.

Sincerely,

Mike Schui

Bm
Beverly Y. Menard
Regional Director -
External Affairs (FL)

BYM:ko
Enclosures

RECEIVED

JUL 11 1993

CMU

FRAME RELAY
TABLE OF CONTENTS

	Page
EXHIBIT A	
I) Product Description	1
II) Limitations and Special Conditions	2
III) Customer Benefits / Impact	2
IV) Market Assessment / Product Strategy	2
V) Forecast Methodology	2
VI) Pricing Methodology	3
VII) Rate Structure	3
Frame Relay Service Diagram	4
EXHIBIT B	Rate Development – Frame Relay Access Line
EXHIBIT C	Rate Development – Frame Relay Port
EXHIBIT D	Rate Development – Frame Relay PVC
EXHIBIT E	Frame Relay – Equipment Cost Analysis
EXHIBIT F	Forecast and Interoffice Transport Analysis – 1.544 Mbps
EXHIBIT G	Forecast and Interoffice Transport Analysis – 56 Kbps
EXHIBIT H	Contribution Analysis
EXHIBIT I	GTE Levelized Annuity Pricing Program (LAPP)

T - 93 - 335

EXHIBIT A

II) Limitations and Special Conditions:

GTE Florida plans to make Frame Relay Service available throughout the Tampa Market Area upon approval of this tariff filing.

The customer must provide information regarding intended use of the service sufficient to permit the Telephone Company to furnish and maintain the service ordered and assure that tariff regulations are followed.

III) Customer Benefits / Impact:

Frame Relay Service will offer customers:

- Reduced network costs
- Bandwidth sharing
- Reduced network complexity
- Improved performance

The ability to link multiple destinations and share bandwidth over a single access line will significantly reduce network costs and simplify the network for the customer. Because of the reduced overhead and processing performed by Frame Relay switched as compared to X.25 packet switches, throughput is increased and delay is reduced for users of FRS.

IV) Market Assessment / Product Strategy:

The proliferation of PCs and workstations, the growing number of computer applications requiring high speed communications, and the availability of error-free high speed transmission lines have created a demand for new methods of wide area networking. This demand is for a data transmission service that provides high speed, low delay, and resource sharing. Frame Relay Service addresses these requirements.

Frame Relay Service provides a cost effective and efficient means to connect Local Area Networks (LANs) and provide remote to host communications. The variable length frames are ideal for transporting the "bursty" data traffic from these sources.

The target markets for Frame Relay Service are small, medium, and large customers with a need to interconnect multiple locations at higher speeds, some of whom are currently served by digital private line facilities. The following industries appear to be strong target market segments: finance, health care, aerospace, retail, utilities, government (Federal and State), transportation, insurance, wholesale, professional business services, education, and discrete manufacturing.

V) Forecasting Methodology:

Market research consisted of secondary research performed by GTE and primary research performed by Quantum Electronic Database (QED), an independent market research and forecasting firm whose data forecasts were purchased by GTE. The QED forecasts were expressed in terms of a nationwide demand for Frame Relay in the 1990's. These numbers were then analyzed and brought down to a state and central office level by GTE's Demand Analysis and Forecasting department.

VI) Pricing Methodology:

As is shown on the attached cost support, the prices proposed by GTE for Frame Relay Service provide contribution over the long run incremental cost of the service.

VII) Rate Structure:

Frame Relay Service includes the following rate elements:

Frame Relay Access Line:

The Frame Relay Access Line provides the dedicated digital connection from the customer premise to the Frame Relay network.

Frame Relay Port:

The Frame Relay Port provides the switching capability of the Frame Relay network. The first PVC is included in this rate element. Under this offering, the customer can be connected through the switching system anywhere within the Tampa Market Area. Initially only the 56 Kbps and 1.544 Mbps access classes will be offered.

PVC:

PVCs are logical circuits that define a specific one-way path for data sent by the customer to another location. Multiple PVCs may be assigned to a single Frame Relay Port, allowing the capability to transmit data to numerous destinations.

EXHIBIT B
RATE DEVELOPMENT
FRAME RELAY ACCESS LINE

The following pages detail the rate development for the Frame Relay Access Line. The proposed rates and margin of contribution are shown on page 1. A cost analysis is shown on page 2.

FRAME RELAY
ACCESS LINE
RATE DEVELOPMENT

	NON-RECURRING			MONTHLY RECURRING			
	Costs	Margin	Proposed Charge	Costs	Margin	Proposed Charge	
1							
2							
3							
4							
5							
6	Frame Relay Access Line -	\$693.00	0.00%	\$693.00	\$152.65	31.02%	\$200.00
7	1.544 Mbps						
8							
9	Frame Relay Access Line -	\$340.00	0.00%	\$340.00	\$32.80	98.17%	\$65.00
10	56 Kbps						
11							
12							
13							
14							
15							

EXHIBIT C
RATE DEVELOPMENT
FRAME RELAY PORT

The following pages detail the rate development for a Frame Relay Port - 1.544 Mbps. The proposed rates and margin of contribution are shown on page 1. A cost analysis is shown on pages 2 through 6. The total resource investments were submitted to the LAPP (EXHIBIT I) to determine a monthly revenue requirement.

FRAME RELAY
 PORT - 1.544 MBPS
 RATE DEVELOPMENT

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15

		NON-RECURRING			MONTHLY RECURRING		
		Costs	Margin	Proposed Charge	Costs	Margin	Proposed Charge
6	Frame Relay Port -	\$31.68	57.82%	\$50.00	\$358.33	11.63%	\$400.00
7	1.544 Mbps						
9	Frame Relay Port -	\$31.68	57.82%	\$50.00	\$38.08	83.84%	\$70.00
10	56 Kbps						

FRAME RELAY
 PORT - 1.544 MBPS
 COST ANALYSIS - CONTINUED

36	TRANSPORT FACILITIES		
37	-----		
38	AVERAGE TRANSPORT FACILITY LENGTH (2)	6.37 Miles	
39	(END OFFICE TO FRAME RELAY NODE)		
40	MONTHLY COST PER MILE PER DS1 (1)	\$5.33	
41		-----	
42	TOTAL MONTHLY TRANSPORT COST PER DS1		\$33.95
43			
44	MONTHLY FIXED COST PER DS1		\$36.64
45			
46			
47	AVERAGE TRANSPORT FACILITY LENGTH (2)	18.49 Miles	
48	(NODE TO NODE)		
49	MONTHLY COST PER MILE PER DS1 (1)	\$5.33	
50		-----	
51	TOTAL MONTHLY TRANSPORT COST PER DS1		\$98.55
52			
53	MONTHLY FIXED COST PER DS1		\$36.64
54			
55		-----	
56			
57	TOTAL MONTHLY REVENUE REQUIREMENT		\$358.33
58			
59	PROPOSED MONTHLY RECURRING CHARGE		\$400.00
60			
61			
62			
63			
64			

65 NOTES:

- 66 1) As filed in the GTE Florida Private Line Cost Study in Docket #91-0967-TL and
 67 approved in Order #PSC-92-0401-FOF-TL.
 68 2) Refer to Exhibit F
 69
 70

FRAME RELAY
PORT - 56 KBPS
COST ANALYSIS

		Material	Vendor E/I	Software
1				
2				
3	DATAKIT	\$102,071.90	\$13,800.00	\$400.00
4	DATAKIT SPARES	\$38,376.00		
5				
6	SUBTOTAL	\$140,447.90	\$13,800.00	\$400.00
7	DS0 Bandwidth Factor (1) 405.71			
8				
9	Cost per Port (L6/L7)	\$346.17	\$34.01	\$0.99
10				
11				
12	FRAME RELAY MODULE - CHANNELIZED	\$14,000.00		
13	DS-0 Port Capacity 24.00			
14				
15	Cost per Port (L12/L13)	\$583.33		
16				
17				
18	MONTHLY REVENUE REQUIREMENT FROM LAPP			\$33.31
19				
20				
21	PVC MONTHLY REVENUE REQUIREMENT (EXHIBIT D)			\$0.74
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35	Notes:			
36	1) Refer to Exhibit E			
37				
38				
39				
40				

FRAME RELAY
PORT
NON-RECURRING CHARGE
COST ANALYSIS

1	FRAME RELAY SERVICE ESTABLISHMENT COSTS	
2	-----	
3	Function	Time (Hrs)
4		
5	Configure Frame Relay Port	0.40
6	Assign PVC to Frame Relay Port	0.20
7	Verify PVC	0.10
8	Verify Frame Relay Port	0.10
9	Generate Report	0.15
10		-----
11	Total	0.95
12		
13	Central Office Technician Labor Rate	\$33.35 per Hour
14		
15	Labor Cost	\$31.68
16		
17	PROPOSED FRAME RELAY PORT NON-RECURRING CHARGE	\$50.00
18		
19		
20		
21		
22		
23		
24		
25		

EXHIBIT D
RATE DEVELOPMENT
FRAME RELAY PVC

The following pages detail the rate development for a Frame Relay PVC. The proposed rates and margin of contribution are shown on page 1. A cost analysis is shown on page 2. The total resource investments were submitted to the LAPP (EXHIBIT I) to determine a monthly revenue requirement.

FRAME RELAY
PVC
COST ANALYSIS

	Material	Vendor E/I	Software
1			
2			
3	\$38,711.00	\$307,666.00	\$20,000.00
4	\$30,341.44		
5	\$21,311.20		
6			
7	\$90,363.64	\$307,666.00	\$20,000.00
8			
9			
10	\$5.71	\$19.43	\$1.26
11			

12
13 MONTHLY REVENUE REQUIREMENT FROM LAPP \$0.74
14
15

16
17
18
19 FRAME RELAY PVC ESTABLISHMENT COSTS

Function	Time (Hrs)
20 -----	
21	
22	
23 Assign PVC to Frame Relay Port	0.20
24 Verify PVC	0.10
25 Generate Report	0.15
26	-----
27 Total	0.45
28	
29 Central Office Technician Labor Rate	\$33.35 per Hour
30	
31 Labor Cost	\$15.01
32	
33 PROPOSED FRAME RELAY PVC NON-RECURRING CHARGE	\$20.00
34	
35	
36	
37	
38	
39	

40 Notes:
41 1) Refer to Exhibit F and G
42
43
44
45

EXHIBIT E
FRAME RELAY
EQUIPMENT COST ANALYSIS

The following pages detail the cost analysis for Frame Relay Equipment. The bandwidth and utilization factor development is shown on page 8.

FRAME RELAY
 DATAKIT
 COST ANALYSIS

T-93-335
 EXHIBIT 5

	QTY	UNIT COST	XTD COST
1 SPARES			
2 -----			
3			
4 MC1D143A1 - FRAME RELAY CIRCUIT PACK	1	\$10,612.00	\$10,612.00
5 CFD1 - CHANNELIZED I/O BOARD	1	\$6,328.00	\$6,328.00
6 AWJ24 - 4 V.35 I/O BOARD	1	\$520.00	\$520.00
7 ASP1 - CIRCUIT PACK	1	\$616.00	\$616.00
8 ASP2 - CIRCUIT PACK	1	\$495.20	\$495.20
9 TN1001B - CIRCUIT PACK	1	\$1,356.80	\$1,356.80
10 TN1003 - CIRCUIT PACK	1	\$1,156.80	\$1,156.80
11 TN2092 - CIRCUIT PACK	1	\$6,003.00	\$6,003.00
12 AWJ9 - CIRCUIT PACK	1	\$522.40	\$522.40
13 TN1011C - CIRCUIT PACK	1	\$3,024.00	\$3,024.00
14 AWJ4 - CIRCUIT PACK	1	\$147.20	\$147.20
15 TN2109B - CIRCUIT PACK	1	\$6,875.00	\$6,875.00
16 CHF1 - FAN POWER ASSEMBLY	1	\$100.00	\$100.00
17 FAN	1	\$36.00	\$36.00
18 AIR FILTER	2	\$9.80	\$19.60
19 AWJ16 - CIRCUIT PACK	1	\$564.00	\$564.00
20 -----			
21 SUBTOTAL - SPARES:			\$38,376.00
22			
23			
24			
25			

FRAME RELAY
STARKEEPER II NMS
COST ANALYSIS

	QTY	UNIT COST	XTD COST
1 STARKEEPER II NMS			
2 -----			
3			
4 STARKEEPER II NMS R4.1 SYSTEM ON HP720	1	\$35,770.00	\$35,770.00
5 ADDITIONAL 16 MB RAM	1	\$2,033.00	\$2,033.00
6 HP-UX DOCUMENTATION	1	\$908.00	\$908.00
7 NETWORK MONITOR MEDIA AND DOC.	1	\$0.00	\$0.00
8 NETWORK BUILDER MEDIA AND DOC.	1	\$0.00	\$0.00
9 PERFORMANCE REPORTER MEDIA AND DOC	1	\$0.00	\$0.00
10			
11 SUBTOTAL - EQUIPMENT:			\$38,711.00
12			
13			
14 NMS 4.1 GRAPHICS SYSTEM RTU LICENSE	1	\$5,000.00	\$5,000.00
15 NMS 4.1 NETWORK MONITOR RTU LICENSE	1	\$5,000.00	\$5,000.00
16 NMS 4.1 NETWORK BUILDER RTU LICENSE	1	\$5,000.00	\$5,000.00
17 NMS 4.1 NETWORK REPORTER RTU LICENSE	1	\$5,000.00	\$5,000.00
18			
19 SUBTOTAL - RTU FEES:			\$20,000.00
20			
21			
22 STARTUP - TASK MANAGER	1	\$2,800.00	\$2,800.00
23 STARTUP - NETWORK MONITOR	1	\$1,600.00	\$1,600.00
24 STARTUP - NETWORK BUILDER	1	\$900.00	\$900.00
25 STARTUP - PERFORMANCE REPORTER	1	\$900.00	\$900.00
26 ENGINEERING - STARKEEPER II	1	\$1,466.00	\$1,466.00
27 NETWORK/SUPPORT SERVICE	1	\$300,000.00	\$300,000.00
28			
29 SUBTOTAL - VENDOR E/I			\$307,666.00
30			
31			
32			
33			
34			
35			

FRAME RELAY
BNS-2000
COST ANALYSIS

		QTY	UNIT COST	XTD COST
1	BNS-2000			
2	-----			
3				
4	CO FRAME	2	\$5,890.00	\$11,780.00
5	REDUNDANT CONTROLLER	1	\$120,750.00	\$120,750.00
6	DOOR	5	\$0.00	\$0.00
7	DC/CO M1 PORT SHELF	2	\$33,000.00	\$66,000.00
8	CONSOLE, PRINTER, CABLES	1	\$2,070.00	\$2,070.00
9	CPM-HS MODULE	1	\$3,967.00	\$3,967.00
10	TY-12 MODULE	1	\$2,607.20	\$2,607.20
11	SFT MODULE	1	\$5,903.00	\$5,903.00
12	SWT-V.35 MODULE	5	\$5,302.40	\$26,512.00
13	FULL MEDIA/DOCUMENTATION	1	\$0.00	\$0.00
14	DOCUMENTATION	2	\$0.00	\$0.00
15				
16	SUBTOTAL - MATERIALS:			\$239,589.20
17				
18	VENDOR E/I			\$56,017.79
19				
20	SOFTWARE RTU LICENSE	1	\$38,950.00	\$38,950.00
21				
22				
23				
24				

FRAME RELAY
BNS-2000
COST ANALYSIS

	QTY	UNIT COST	XTD COST
1	CENTRALIZED SPARES		
2	-----		
3			
4	1	\$25.80	\$309.56
5	1	\$43.47	\$521.61
6	1	\$25.95	\$311.45
7	1	\$43.47	\$521.61
8	1	\$33.17	\$398.00
9	1	\$44.30	\$531.57
10	1	\$44.55	\$534.65
11	1	\$9,000.00	\$9,000.00
12	1	\$10,195.20	\$10,195.20
13	1	\$440.00	\$440.00
14	1	\$1,760.00	\$1,760.00
15	1	\$412.80	\$412.80
16	1	\$2,000.00	\$2,000.00
17	1	\$413.00	\$413.00
18	1	\$2,552.00	\$2,552.00
19	1	\$440.00	\$440.00
20			
21			\$30,341.44
22			
23			
24			
25			

FRAME RELAY
 BANDWIDTH AND UTILIZATION FACTOR
 FACTOR DEVELOPMENT

1	DATAKIT BACKPLANE BANDWIDTH	=	5.68 Mbps
2	DS0 BANDWITH	=	56 Kbps
3	AVERAGE LINE UTILIZATION	=	25%
4			
5	DS0 BANDWIDTH FACTOR	{ (L1) / (L2 * L3) }	= 405.71
6			
7			
8			
9	BNS-2000 FULL BACKPLANE BANDWIDTH	=	200 Mbps
10	DS1 BANDWITH	=	1.54 Kbps
11	AVERAGE LINE UTILIZATION	=	25%
12			
13	DS1 BANDWIDTH FACTOR	{ (L9) / (L10 * L11) }	= 519.48
14			
15			
16			
17	% INTERNODE TRAFFIC (DS0)	=	50%
18			
19	INTERNODE FACTOR (DS0)	(L3 * L17)	= 0.125
20			
21			
22			
23			
24			
25			

FRAME RELAY
FORECAST - 1.544 MBPS
FLORIDA
LATA: 952

	YEAR				
	1	2	3	4	5
1					
2					
3					
4					
5	81	207	401	499	551
6	81	207	401	499	551
7	891	2277	4411	5489	6061
8					
9					
10					
11				366	
12					
13				3537	
14					
15					

FRAME RELAY
 CENTRAL OFFICE DEPLOYMENT
 INTEROFFICE TRANSPORT DISTANCE
 LATA: 952
 CLEARWATER MAIN NODE

				A-MILES TO FRAME RELAY WEIGHTED NODE DISTANCE		
	CENTRAL OFFICE	CLLI	VERT	HOR		
5	CLEARWATER MAIN	CLWRFLXA44H	8202	1203	0.00	0.00 ***
6	COUNTRYSIDE	CNSDFLXA79H	8191	1196	4.12	0.09
7	DUNEDIN	DNDNFLXA73H	8191	1210	4.12	0.03
8	HUDSON	HDSNFLXA86H	8118	1231	28.00	0.25
9	INDIAN ROCKS	INRKFLXX58H	8223	1203	6.64	0.02
10	LARGO	LRGOFLXA58H	8213	1201	3.54	0.05
11	MOON LAKE	MNLKFLXA85H	8114	1213	28.01	0.06
12	NEW PORT RICHEY	NPRCFLXA84H	8135	1225	22.30	0.41
13	PINELLAS	PNLSFLXA53H	8206	1190	4.30	0.14
14	SEVEN SPRINGS	SNSPFLXA37H	8144	1207	18.38	0.04
15	ST. GEORGE	STGRFLXA78H	8178	1208	7.75	0.10
16	TARPON SPRINGS	TRSPFLXA93H	8164	1216	12.70	0.13
17						
18				Subtotal		1.32
19						
20	C.O. LOCATION OF FRAME RELAY NODE		***			
21						
22						
23						
24						
25	WEIGHTED AVERAGE DISTANCE TO FRAME RELAY NODE					6.37 Airline Miles
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

FRAME RELAY
 CENTRAL OFFICE DEPLOYMENT
 INTEROFFICE TRANSPORT DISTANCE
 LATA: 952
 SARASOTA MAIN NODE

				A-MILES TO FRAME RELAY WEIGHTED NODE DISTANCE	
	CENTRAL OFFICE	CLLI	VERT	HOR	
1					
2					
3	CENTRAL OFFICE				
4	-----				
5	ANNA MARIA	ANMRFLXA77H	8282	1142	15.90 0.03
6	BRANDENTON BAY	BRBAFLXA75H	8282	1114	7.91 0.13
7	BRANDENTON MAIN	BRTNFLXX74H	8269	1117	11.46 0.21
8	ENGLEWOOD	ENWDFLXA47H	8439	1023	50.20 0.26
9	LONGBOAT	LGBKFLXA38H	8297	1117	7.27 0.03
10	MYAKKA MAIN	MYCYFLXA32H	8256	1032	23.51 0.00
11	NORTH PORT	NRPTFLXA42H	8322	1013	26.81 0.06
12	OSPREY	OSPRFLXA96H	8317	1069	10.12 0.02
13	PALMA SOLA	PLSLFLXA79H	8271	1131	14.30 0.10
14	PALMETTO	PLMTFLXA72H	8256	1121	15.52 0.14
15	PARRISH	PRSHFLXARSA	8240	1101	18.16 0.01
16	SARASOTA MAIN	SRSTFLXA95H	8297	1094	0.00 0.00 ***
17	SARASOTA NORTHSIDE	SRSTFLXAK01	8296	1094	0.32 0.00
18	SARASOTA SOUTHSIDE	SRSTFLAXXX	8306	1094	2.85 0.05
19	SARASOTA SPRINGS	SSPRGFLXA37H	8290	1078	5.52 0.05
20	SIESTA KEY	SEKYFLXA34H	8310	1088	4.53 0.01
21	ST. ARMANDS KEY	SARKFLXARSA	8303	1099	2.47 0.01
22	VENICE MAIN	VENCFLXA48H	8332	1053	17.05 0.22
23	VENICE SOUTH	VENCFLXS49F	8337	1041	21.00 0.08
24					
25				Subtotal	1.39
26					
27	C.O. LOCATION OF FRAME RELAY NODE		***		
28					
29					
30					
31					
32					
33					
34					
35					

FRAME RELAY
 CENTRAL OFFICE DEPLOYMENT
 INTEROFFICE TRANSPORT DISTANCE
 LATA: 952
 ST. PETERSBURG MAIN NODE

EXHIBIT F

				A-MILES TO FRAME RELAY WEIGHTED NODE DISTANCE	
	CENTRAL OFFICE	CLLI	VERT	HOR	
1					
2					
3	CENTRAL OFFICE				
4	-----				
5	BAYOU	BAYUFLXA54H	8220	1180	6.83 0.10
6	FEATHER SOUND	FHSDFLXA57H	8205	1178	8.72 0.17
7	GANDY	GNDYFLXA57H	8209	1169	5.97 0.08
8	LEALMAN	LLMNFLXA52F	8217	1167	3.58 0.06
9	NORTH GULF BEACH	NGBHFLXA39H	8226	1191	10.12 0.16
10	PASADENA	PSDNFLXA34H	8230	1169	3.54 0.08
11	SKYWAY	SKWYFLXA32F	8230	1165	2.47 0.04
12	SOUTH GULF BEACH	SGBEFLXA36H	8241	1174	6.94 0.04
13	ST. PETERSBURG MAIN	SPBGFLXA89H	8225	1159	0.00 0.00 ***
14	ST. PETERSBURG SOUTH	SPBGFLXS86H	8238	1159	4.11 0.02
15					
16				Subtotal	0.73
17					
18	C.O. LOCATION OF FRAME RELAY NODE			***	
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					

FRAME RELAY
 CENTRAL OFFICE DEPLOYMENT
 INTEROFFICE TRANSPORT DISTANCE
 LATA: 952
 WINTERHAVEN NODE

				A-MILES TO FRAME RELAY WEIGHTED NODE DISTANCE	
	CENTRAL OFFICE	CLLI	VERT	HOR	
1					
2					
3					
4	-----				
5	ALTURAS	ALTRFLXARSA	8114	1014	10.44 0.01
6	AUBURNDALE	ABDLFLXA77H	8085	1047	4.47 0.04
7	BABSON PARK	BBPKFLXARSA	8102	979	17.72 0.04
8	BARTOW MAIN	BARTFLXA53H	8121	1038	10.87 0.12
9	CYPRESS GARDENS	CYGRFLXA32H	8086	1022	3.49 0.01
10	DUNDEE	DUNDFLXA43H	8076	1015	6.67 0.01
11	FROSTPROOF	FRSTFLXA63H	8119	970	22.35 0.05
12	HAINES CITY MAIN	HNCYFLXA42H	8061	1025	8.60 0.06
13	HAINES CITY NORTH	HNCYFLXN424	8041	1044	14.96 0.03
14	INDIAN LAKE MAIN	INLKFLXARSA	8086	944	28.15 0.00
15	LAKE ALFRED	LKALFLXA95H	8075	1040	4.39 0.01
16	LAKE WALES EAST	LKWFLXERSA	8082	967	20.93 0.01
17	LAKE WALES MAIN	LKWFLXA67H	8096	996	12.04 0.09
18	POINCIANA	POINFLXARSA	8041	1007	16.71 0.00
19	POLK CITY	PKCYFLXARSA	8067	1066	12.20 0.01
20	WINTER HAVEN	WNHNFLXC29H	8087	1033	0.00 0.00 ***
21					
22				Subtotal	0.4905426
23					
24	C.O. LOCATION OF FRAME RELAY NODE		***		
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					

FRAME RELAY
CENTRAL OFFICE FORECAST
FLORIDA
LATA: 952

EXHIBIT F

	YEAR					LEVELIZED FORECAST	
	1	2	3	4	5		
1							
2							
3	CENTRAL OFFICE	1	2	3	4	5	
4	-----						-----
5	CLEARWATER MAIN	3	7	15	19	21	11.979
6	COUNTRYSIDE	2	5	10	13	15	8.2788
7	DUNEDIN	1	2	3	4	4	2.6291
8	HUDSON	1	2	4	5	6	3.3248
9	INDIAN ROCKS	1	1	1	2	2	1.3379
10	LARGO	1	3	6	8	9	4.954
11	MOON LAKE	0	1	1	1	1	0.7556
12	NEW PORT RICHEY	1	4	9	11	12	6.7809
13	PINELLAS	3	7	15	19	21	11.979
14	SEVEN SPRINGS	0	1	1	1	1	0.7556
15	ST. GEORGE	1	3	6	7	8	4.6161
16	TARPON SPRINGS	1	2	5	5	7	3.6826
17							
18	BRADLEY	0	1	1	1	1	0.7556
19	HIGHLANDS	1	4	7	8	9	5.3716
20	LAKELAND EAST	1	3	6	7	7	4.4561
21	LAKELAND MAIN	3	7	15	18	21	11.801
22	LAKELAND NORTH	1	1	2	3	3	1.8736
23	MULBERRY	1	1	2	3	3	1.8736
24	PINECREST	0	1	1	0	0	0.4176
25	PLANT CITY MAIN	1	3	7	8	9	5.1518
26	ZEPHYRHILLS	1	2	3	3	4	2.4512
27							
28	ANNA MARIA	0	1	1	1	1	0.7556
29	BRANDENTON BAY	1	4	8	10	10	6.0852
30	BRANDENTON MAIN	1	4	8	11	12	6.5831
31	ENGLEWOOD	1	1	2	3	3	1.8736
32	LONGBOAT	1	1	1	2	2	1.3379
33	MYAKKA MAIN	0	0	0	0	0	0
34	NORTH PORT	0	1	1	1	1	0.7556
35	OSPREY	0	1	1	1	1	0.7556
36	PALMA SOLA	1	2	3	4	4	2.6291
37	PALMETTO	1	2	4	5	6	3.3248
38	PARRISH	0	0	1	0	0	0.1978
39	SARASOTA MAIN	3	5	12	16	19	10.093
40	SARASOTA NORTHSIDE	1	3	5	7	8	4.4183
41	SARASOTA SOUTHSIDE	1	4	8	10	11	6.2452
42	SARASOTA SPRINGS	1	2	4	5	5	3.1648
43	SIESTA KEY	0	1	1	1	1	0.7556
44	ST. ARMANDS KEY	0	1	1	1	1	0.7556
45	VENICE MAIN	1	3	6	7	8	4.6161
46	VENICE SOUTH	1	1	1	2	2	1.3379
47							
48							
49							
50							

FRAME RELAY
 CENTRAL OFFICE DEPLOYMENT
 INTEROFFICE TRANSPORT DISTANCE
 LATA: 952

				A-MILES TO FRAME RELAY WEIGHTED NODE DISTANCE		
	CENTRAL OFFICE	CLLI	VERT	HOR		
1						
2						
3	CENTRAL OFFICE					
4	-----	-----	-----	-----	-----	
5	CLEARWATER MAIN	CLWRFLXA44H	8202	1203	20.09	3.35
6	LAKELAND MAIN	LKLDFLXA68H	8106	1073	31.36	2.93
7	SARASOTA MAIN	SRSTFLXA95H	8297	1094	42.93	6.53
8	ST. PETERSBURG MAIN	SPBGFLXA89H	8225	1159	17.18	2.68
9	TAMPA MAIN	TAMPFLXX22H	8172	1147	0.00	0.00
10	WINTER HAVEN	WNHNFLXC29H	8087	1033	44.97	3.00
11						
12						
13						
14	WEIGHTED AVERAGE DISTANCE FROM FRAME RELAY NODE				18.49 Airline Miles	
15	TO TAMPA FRAME RELAY NODE					
16						
17						
18						
19						
20						

EXHIBIT G
FRAME RELAY
FORECAST AND
INTEROFFICE TRANSPORT ANALYSIS

The following pages detail the forecast and interoffice transport analysis for Frame Relay Service - 56 Kbps for the first five years.

FRAME RELAY
CENTRAL OFFICE DEPLOYMENT
INTEROFFICE TRANSPORT DISTANCE
LATA: 952
CLEARWATER MAIN NODE

				A - MILES TO FRAME RELAY WEIGHTED NODE DISTANCE	
	CENTRAL OFFICE	CLLI	VERT	HOR	
1					
2					
3					
4	-----				
5	CLEARWATER MAIN	CLWRFLXA44H	8202	1203	0.00 0.00 ***
6	COUNTRYSIDE	CNSDFLXA79H	8191	1196	4.12 0.10
7	DUNEDIN	DNDNFLXA73H	8191	1210	4.12 0.03
8	HUDSON	HDSNFLXA86H	8118	1231	28.00 0.23
9	INDIAN ROCKS	INRKFLXX58H	8223	1203	6.64 0.02
10	LARGO	LRGOFLXA58H	8213	1201	3.54 0.05
11	MOON LAKE	MNLKFLXA85H	8114	1213	28.01 0.04
12	NEW PORT RICHEY	NPRCFLXA84H	8135	1225	22.30 0.43
13	PINELLAS	PNLSFLXA53H	8206	1190	4.30 0.15
14	SEVEN SPRINGS	SNSPFLXA37H	8144	1207	18.38 0.03
15	ST. GEORGE	STGRFLXA78H	8178	1208	7.75 0.10
16	TARPON SPRINGS	TRSPFLXA93H	8164	1216	12.70 0.13
17					
18				Subtotal	1.29
19					
20	C.O. LOCATION OF FRAME RELAY NODE		***		
21					
22					
23					
24					
25	WEIGHTED AVERAGE DISTANCE FROM END OFFICE TO				6.18 Airline Miles
26	FRAME RELAY NODE				
27					
28					
29					
30					
31					
32					
33					
34					
35					

FRAME RELAY
 CENTRAL OFFICE DEPLOYMENT
 INTEROFFICE TRANSPORT DISTANCE
 LATA: 952
 LAKELAND MAIN NODE

				A-MILES TO FRAME RELAY WEIGHTED NODE DISTANCE	
	CENTRAL OFFICE	CLLI	VERT	HOR	
1					
2					
3					
4	-----				
5	BRADLEY	BRJTFLXARSA	8155	1050	17.12 0.02
6	HIGHLANDS	HGLDFLXA64H	8116	1065	4.05 0.06
7	LAKELAND EAST	LKLDFLXE66E	8099	1062	4.12 0.05
8	LAKELAND MAIN	LKLDFLXA68H	8106	1073	0.00 0.00 ***
9	LAKELAND NORTH	LKLDFLXN85H	8093	1085	5.59 0.03
10	MULBERRY	MLBYFLXARSA	8135	1060	10.05 0.05
11	PINECREST	PNCRFLXA73J	8152	1085	15.03 0.01
12	PLANT CITY MAIN	PTCYFLXA75F	8128	1098	10.53 0.15
13	ZEPHYRHILLS	ZPHYFLXA78H	8093	1131	18.80 0.12
14					
15				Subtotal	0.49
16					
17	C.O. LOCATION OF FRAME RELAY NODE		***		
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					

FRAME RELAY
 CENTRAL OFFICE DEPLOYMENT
 INTEROFFICE TRANSPORT DISTANCE
 LATA: 952
 ST. PETERSBURG MAIN NODE

1					A-MILES TO	
2					FRAME RELAY WEIGHTED	
3	CENTRAL OFFICE	CLLI	VERT	HOR	NODE DISTANCE	
4	-----					
5	BAYOU	BAYUFLXA54H	8220	1180	6.83	0.10
6	FEATHER SOUND	FHSDFLXA57H	8205	1178	8.72	0.17
7	GANDY	GNDYFLXA57H	8209	1169	5.97	0.08
8	LEALMAN	LLMNFLXA52F	8217	1167	3.58	0.06
9	NORTH GULF BEACH	NGBHFLXA39H	8226	1191	10.12	0.16
10	PASADENA	PSDNFLXA34H	8230	1169	3.54	0.08
11	SKYWAY	SKWYFLXA32F	8230	1165	2.47	0.04
12	SOUTH GULF BEACH	SGBEFLXA36H	8241	1174	6.94	0.03
13	ST. PETERSBURG MAIN	SPBGFLXA89H	8225	1159	0.00	0.00 ***
14	ST. PETERSBURG SOUTH	SPBGFLXS86H	8238	1159	4.11	0.02
15						
16					Subtotal	0.73
17						
18	C.O. LOCATION OF FRAME RELAY NODE			***		
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

FRAME RELAY
CENTRAL OFFICE DEPLOYMENT
INTEROFFICE TRANSPORT DISTANCE
LATA: 952
TAMPA MAIN NODE

				A-MILES TO FRAME RELAY WEIGHTED NODE DISTANCE	
	CENTRAL OFFICE	CLLI	VERT	HOR	
5	ALAFIA	ALFAFLXA67H	8183	1122	8.64 0.03
6	BAYSHORE	BYSHFLXA84H	8194	1140	7.30 0.00
7	BEACH PARK	BHPKFLXA28H	8180	1157	4.05 0.17
8	BRANDON	BRNDFLXA68H	8157	1116	10.89 0.17
9	CARROLWOOD	CRWDFLXA96H	8151	1169	9.62 0.19
10	HYDE PARK	HYPKFLXADS0	8175	1148	1.00 0.02
11	KEYSTONE	KYSTFLXA92H	8154	1185	13.30 0.02
12	LAND O' LAKES	LNLKFLXA99H	8116	1183	21.05 0.03
13	LUTZ	LUTZFLXA94H	8134	1169	13.89 0.04
14	OLDSMAR	OLDSFLXA85H	8175	1186	12.37 0.10
15	RUSKIN	RSKNFLXA64H	8214	1118	16.14 0.05
16	SEMINOLE	SMNFLXA23F	8164	1152	2.98 0.03
17	SULPHUR SPRINGS	SLSPFLXA93H	8159	1156	5.00 0.09
18	SWEETWATER	SWTHFLXA88H	8174	1170	7.30 0.25
19	TAMPA EAST	TAMPFLXE62H	8160	1135	5.37 0.22
20	TAMPA MAIN	TAMPFLXX22H	8172	1147	0.00 0.00 ***
21	TAMPA WESTSIDE	WSSDFLXA87H	8175	1156	3.00 0.15
22	TEMPLE TERRACE	TMTRFLXADS0	8150	1145	6.99 0.06
23	THONOTOSASSA	THNTFLXA986	8136	1132	12.33 0.02
24	UNIVERSITY	UNVRFLXA97H	8150	1153	7.21 0.10
25	WALLCRAFT	WLCRFLXA83F	8185	1148	4.12 0.05
26	WESLEY CHAPEL	WLCHFLXA97H	8110	1159	19.97 0.03
27	WIMAUMA	WIMMFLXA63H	8205	1101	17.90 0.06
28	YBOR	YBCTFLXA24F	8169	1145	1.14 0.02
29					-----
30				Subtotal	1.87
31					
32	C.O. LOCATION OF FRAME RELAY NODE		***		
33					
34					
35					

FRAME RELAY
CENTRAL OFFICE FORECAST
FLORIDA
LATA: 952

	YEAR					LEVELIZED FORECAST	
	1	2	3	4	5		
1							
2							
3	CENTRAL OFFICE	1	2	3	4	5	
4	-----						
5	CLEARWATER MAIN	23	55	122	153	169	96.192
6	COUNTRYSIDE	12	39	81	104	120	65.294
7	DUNEDIN	4	12	22	29	31	18.103
8	HUDSON	4	12	29	37	44	22.998
9	INDIAN ROCKS	4	4	11	14	16	9.091
10	LARGO	8	24	48	63	70	39.171
11	MOON LAKE	0	4	4	6	5	3.5409
12	NEW PORT RICHEY	8	32	70	89	99	54.564
13	PINELLAS	23	55	122	153	167	95.871
14	SEVEN SPRINGS	0	4	7	6	8	4.6156
15	ST. GEORGE	8	20	44	55	63	34.953
16	TARPON SPRINGS	4	16	37	43	52	27.811
17							
18	BRADLEY	0	4	4	6	5	3.5409
19	HIGHLANDS	8	28	55	66	73	42.45
20	LAKELAND EAST	8	20	44	55	57	33.99
21	LAKELAND MAIN	23	55	118	147	164	93.529
22	LAKELAND NORTH	4	8	18	23	26	14.562
23	MULBERRY	4	8	18	23	26	14.562
24	PINECREST	0	4	4	3	3	2.6856
25	PLANT CITY MAIN	8	24	52	63	68	39.641
26	ZEPHYRHILLS	4	12	22	26	29	17.247
27							
28	ANNA MARIA	0	4	4	6	5	3.5409
29	BRANDENTON BAY	8	28	63	78	83	47.774
30	BRANDENTON MAIN	8	32	66	84	96	52.4
31	ENGLEWOOD	4	8	18	23	26	14.562
32	LONGBOAT	4	4	7	12	13	7.4622
33	MYAKKA MAIN	0	0	0	0	3	0.4812
34	NORTH PORT	0	4	7	6	8	4.6156
35	OSPREY	0	4	7	6	8	4.6156
36	PALMA SOLA	4	12	22	29	31	18.103
37	PALMETTO	4	12	29	37	42	22.677
38	PARRISH	0	0	4	3	3	1.8069
39	SARASOTA MAIN	18	43	99	130	148	80.32
40	SARASOTA NORTHSIDE	8	20	44	55	60	34.471
41	SARASOTA SOUTHSIDE	8	32	63	81	89	50.15
42	SARASOTA SPRINGS	4	12	29	37	42	22.677
43	SIESTA KEY	0	4	4	6	8	4.0221
44	ST. ARMANDS KEY	0	4	4	6	5	3.5409
45	VENICE MAIN	8	20	44	55	60	34.471
46	VENICE SOUTH	4	8	11	17	18	10.825
47							
48							
49							
50							

Continued

EXHIBIT G

51	BAYOU	8	24	52	63	68	39.641
52	FEATHER SOUND	12	32	70	87	94	54.381
53	GANDY	8	24	48	63	68	38.85
54	LEALMAN	8	28	59	75	83	46.448
55	NORTH GULF BEACH	8	28	55	69	76	43.465
56	PASADENA	12	39	81	104	117	64.813
57	SKYWAY	8	28	59	72	78	45.112
58	SOUTH GULF BEACH	4	8	15	23	23	13.487
59	ST. PETERSBURG MAIN	23	47	111	141	156	88.035
60	ST. PETERSBURG SOUTH	4	8	11	17	18	10.825
61							
62	ALAFIA	4	4	11	14	13	8.6098
63	BAYSHORE	0	0	0	3	3	1.0156
64	BEACH PARK	27	71	155	190	211	120.54
65	BRANDON	8	28	55	69	78	43.786
66	CARROLWOOD	8	32	74	92	102	56.37
67	HYDE PARK	8	28	55	69	78	43.786
68	KEYSTONE	0	4	7	6	8	4.6156
69	LAND O' LAKES	0	4	4	6	8	4.0221
70	LUTZ	4	4	7	12	13	7.4622
71	OLDSMAR	4	12	29	35	39	21.84
72	RUSKIN	4	4	11	14	13	8.6098
73	SEMINOLE	4	16	29	37	44	23.877
74	SULPHUR SPRINGS	8	28	63	81	89	49.271
75	SWEETWATER	23	55	122	150	164	94.855
76	TAMPA EAST	27	67	144	179	198	113.44
77	TAMPA MAIN	27	71	158	202	224	125.36
78	TAMPA WESTSIDE	31	83	180	228	250	142.12
79	TEMPLE TERRACE	4	12	29	37	42	22.677
80	THONOTOSASSA	0	4	4	6	5	3.5409
81	UNIVERSITY	8	24	48	63	68	38.85
82	WALLCRAFT	8	20	41	52	57	32.862
83	WESLEY CHAPEL	0	4	4	6	5	3.5409
84	WIMAUMA	4	4	11	14	18	9.4119
85	YBOR	8	32	70	84	94	52.871
86							
87	ALTURAS	0	0	4	3	3	1.8069
88	AUBURNDALE	4	16	37	43	47	27.009
89	BABSON PARK	0	4	4	6	5	3.5409
90	BARTOW MAIN	8	20	41	49	52	31.526
91	CYPRESS GARDENS	4	4	11	12	13	8.2535
92	DUNDEE	0	4	7	6	8	4.6156
93	FROSTPROOF	0	4	7	9	10	5.4708
94	HAINES CITY MAIN	4	12	22	29	31	18.103
95	HAINES CITY NORTH	0	4	4	6	5	3.5409
96	INDIAN LAKE MAIN	0	0	0	0	0	0
97	LAKE ALFRED	0	4	7	6	8	4.6156
98	LAKE WALES EAST	0	0	4	3	3	1.8069
99	LAKE WALES MAIN	4	12	26	35	39	21.246
100	POINCIANA	0	0	0	0	0	0
101	POLK CITY	0	0	4	3	3	1.8069
102	WINTER HAVEN	8	28	55	72	81	44.802
103							
104		517	1469	3123	3924	4349	2809.5
105							

EXHIBIT H
CONTRIBUTION ANALYSIS

The following pages detail the Contribution Analysis for Frame Relay Service. A summary of the margin of contribution for each proposed rate element is detailed in the rate development exhibit for that element. A contribution analysis summary based on the forecast for the first five years of service is provided on page 1 with details for each rate element shown on page 2. The following calculations were used:

Annualized Monthly Recurring Revenue =	(Year N Forecast) * Monthly Recurring Charge) * (12 Months)
Annualized Monthly Recurring Cost =	(Year N Forecast) * (Monthly Recurring Cost) * (12 Months)
Annualized Non-Recurring Revenue =	{(Year N Forecast) - (Year N-1 Forecast)} * (Non-Recurring Charge)
Annualized Non-Recurring Cost =	{(Year N Forecast) - (Year N-1 Forecast)} * (Non-Recurring Investment)
% Contribution (Margin) =	[(Revenue) - (Cost)] / (Cost)

FRAME RELAY
CONTRIBUTION ANALYSIS

	Year 1	Year 2	Year 3	Year 4	Year 5
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
TOTAL REVENUE (Recurring and Non-Recurring)	\$1,929,613	\$4,947,178	\$9,957,922	\$11,707,644	\$12,678,326
TOTAL COSTS (Recurring and Non-Recurring)	\$1,270,311	\$3,141,591	\$6,204,476	\$7,065,344	\$7,560,732
CONTRIBUTION	\$659,302	\$1,805,587	\$3,753,446	\$4,642,300	\$5,117,594
% CONTRIBUTION (Margin)	51.90%	57.47%	60.50%	65.71%	67.69%

FRAME RELAY
FINANCIAL SUMMARY

EXHIBIT H

	Year 1	Year 2	Year 3	Year 4	Year 5	
1						
2						
3	REVENUE:					
4	-----					
5	RECURRING:					
6	Frame Relay Access - 1.544 Mbps	\$194,400	\$496,800	\$962,400	\$1,197,600	\$1,322,400
7	Frame Relay Access - 56Kbps	\$403,260	\$1,145,820	\$2,435,940	\$3,060,720	\$3,392,220
8	Frame Relay Port - 1.544 Mbps	\$388,800	\$993,600	\$1,924,800	\$2,395,200	\$2,644,800
9	Frame Relay Port - 56 Kbps	\$434,280	\$1,233,960	\$2,623,320	\$3,296,160	\$3,653,160
10	Frame Relay PVC	\$177,540	\$489,180	\$1,014,180	\$1,271,100	\$1,407,420
11						
12	TOTAL	\$1,598,280	\$4,359,360	\$8,960,640	\$11,220,780	\$12,420,000
13						
14	NON-RECURRING:					
15	Frame Relay Access - 1.544 Mbps	\$56,133	\$87,318	\$134,442	\$67,914	\$36,036
16	Frame Relay Access - 56Kbps	\$175,780	\$323,680	\$562,360	\$272,340	\$144,500
17	Frame Relay Port - 1.544 Mbps	\$4,050	\$6,300	\$9,700	\$4,900	\$2,600
18	Frame Relay Port - 56 Kbps	\$25,850	\$47,600	\$82,700	\$40,050	\$21,250
19	Frame Relay PVC	\$69,520	\$122,920	\$208,080	\$101,660	\$53,940
20						
21	TOTAL	\$331,333	\$587,818	\$997,282	\$486,864	\$258,326
22						
23						
24	COSTS:					
25	-----					
26	RECURRING:					
27	Frame Relay Access - 1.544 Mbps	\$148,376	\$379,183	\$734,552	\$914,068	\$1,009,322
28	Frame Relay Access - 56Kbps	\$203,491	\$578,198	\$1,229,213	\$1,544,486	\$1,711,766
29	Frame Relay Port - 1.544 Mbps	\$348,297	\$890,092	\$1,724,284	\$2,145,680	\$2,369,278
30	Frame Relay Port - 56 Kbps	\$236,248	\$671,274	\$1,427,086	\$1,793,111	\$1,987,319
31	Frame Relay PVC	\$30,867	\$85,443	\$177,831	\$222,968	\$246,917
32						
33	TOTAL	\$967,279	\$2,604,190	\$5,292,966	\$6,620,314	\$7,324,602
34						
35	NON-RECURRING:					
36	Frame Relay Access - 1.544 Mbps	\$56,133	\$87,318	\$134,442	\$67,914	\$36,036
37	Frame Relay Access - 56Kbps	\$175,780	\$323,680	\$562,360	\$272,340	\$144,500
38	Frame Relay Port - 1.544 Mbps	\$2,566	\$3,992	\$6,146	\$3,105	\$1,647
39	Frame Relay Port - 56 Kbps	\$16,379	\$30,159	\$52,399	\$25,376	\$13,464
40	Frame Relay PVC	\$52,175	\$92,251	\$156,164	\$76,296	\$40,482
41						
42	TOTAL	\$303,032	\$537,401	\$911,511	\$445,030	\$236,129
43						
44						
45						

EXHIBIT I
LEVELIZED ANNUITY PRICING PROGRAM
(LAPP)

The financial and operational parameters used in in LAPP are shown on page 1. The LAPP outputs used in the rate development are detailed in pages 2 through 4.

GTE LEVELIZED ANNUITY PRICING PROGRAM
Version Release 2.0
Levelized Unit Costs and Pricing

04/26/93

State:

Study: Frame - DS1

File: FRAMEDS1

LEVELIZED UNIT COST:

Contract Period =
120 Months

	(a) Annuitized Cost	(b) Annuitized Units	Annuitized Cost Per Unit (a) / (b)
A. Depreciation	\$36.10	0.9734	\$37.09
B. Return	\$35.50	0.9734	\$36.47
C. Income Tax	\$3.81	0.9734	\$3.91
D. Plant Specific Cost	\$44.64	0.9734	\$45.86
E. Direct Administration Cost	\$24.39	0.9734	\$25.06
F. Gross Receipts Tax on (A to E)	\$3.32	0.9734	\$3.42
G. INCREMENTAL COST			\$151.81

PRICING:

1. Total Engineering & Installation Cost	\$171.43	
2. Engineering & Installation Units	1.0000	
3. ENGINEERING & INSTALLATION COST PER UNIT (1)/(2)	\$171.43	
4. PROPOSED NON-RECURRING CHARGE (NRC)		\$0.00
5. Present Value from Annuity Factor		0.0139
6. Proposed NRC Per Unit Expressed as an Annuity (4)*(5)		\$0.00
7. INCREMENTAL MONTHLY RECURRING CHARGE (G)-(6)		\$151.81

GTE LEVELIZED ANNUITY PRICING PROGRAM
Version Release 2.0
Levelized Unit Costs and Pricing

EXHIBIT I

04/23/93

State: FLORIDA

Study: Frame - DSO

File: FRAMEDSO

LEVELIZED UNIT COST:

Contract Period =
120 Months

	(a) Annuitized Cost	(b) Annuitized Units	Annuitized Cost Per Unit (a) / (b)
A. Depreciation	\$7.97	0.9734	\$8.19
B. Return	\$7.84	0.9734	\$8.05
C. Income Tax	\$0.84	0.9734	\$0.86
D. Plant Specific Cost	\$9.85	0.9734	\$10.12
E. Direct Administration Cost	\$5.19	0.9734	\$5.33
F. Gross Receipts Tax on (A to E)	\$0.73	0.9734	\$0.75
G. INCREMENTAL COST			\$33.31

PRICING:

1. Total Engineering & Installation Cost	\$34.01
2. Engineering & Installation Units	1.0000
3. ENGINEERING & INSTALLATION COST PER UNIT (1)/(2)	\$34.01

4. PROPOSED NON-RECURRING CHARGE (NRC)	\$0.00
5. Present Value from Annuity Factor	0.0139
6. Proposed NRC Per Unit Expressed as an Annuity (4)*(5)	\$0.00
7. INCREMENTAL MONTHLY RECURRING CHARGE (G)-(6)	\$33.31

State: FLORIDA

GTE LEVELIZED ANNUITY PRICING PROGRAM
Version Release 2.0
Levelized Unit Costs and Pricing

04/23/93

Study: Frame - PVC

File: FRAMEPVC

LEVELIZED UNIT COST:

Contract Period =
120 Months

	(a) Annuitized Cost	(b) Annuitized Units	Annuitized Cost Per Unit (a) / (b)
A. Depreciation	\$0.18	0.9734	\$0.18
B. Return	\$0.17	0.9734	\$0.18
C. Income Tax	\$0.02	0.9734	\$0.02
D. Plant Specific Cost	\$0.21	0.9734	\$0.22
E. Direct Administration Cost	\$0.13	0.9734	\$0.13
F. Gross Receipts Tax on (A to E)	\$0.02	0.9734	\$0.02
G. INCREMENTAL COST			\$0.74

PRICING:

1. Total Engineering & Installation Cost	\$19.43	
2. Engineering & Installation Units	1.0000	
3. ENGINEERING & INSTALLATION COST PER UNIT (1)/(2)	\$19.43	
4. PROPOSED NON-RECURRING CHARGE (NRC)		\$0.00
5. Present Value from Annuity Factor		0.0139
6. Proposed NRC Per Unit Expressed as an Annuity (4)*(5)		\$0.00
7. INCREMENTAL MONTHLY RECURRING CHARGE (G)-(6)		\$0.74

A10. DIGITAL NETWORK SERVICES

T-93-335

CONTENTS

	<u>Page No.</u>	
<u>A10.7 MEGACONNECT™ SERVICE</u>	70	(N)
A10.7.1 General	70	⌘
A10.7.2 Regulations	70	
A10.7.3 Rate Structure	70	
A10.7.4 Rates and Charges	71	
<u>A10.8 FRAME RELAY SERVICE</u>	<u>72</u>	(N)
<u>A10.8.1 General</u>	<u>72</u>	
<u>A10.8.2 Regulations</u>	<u>72</u>	
<u>A10.8.3 Obligations of the Customer</u>	<u>74</u>	
<u>A10.8.4 Obligations of the Company</u>	<u>74</u>	
<u>A10.8.5 Rates and Charges</u>	<u>75</u>	

EARLY REVISIONS
IN BRACKETED FORMAT

™ - Registered Servicemark of GTE.

(N)

A10. DIGITAL NETWORK SERVICES

A10.8 FRAME RELAY SERVICE

(N)

.1 General

- a. Frame Relay Service (FRS) is a "fast packet" network service that permits the transmission of data at speeds from 56 Kbps to 1.544 Mbps using Permanent Virtual Circuits (PVCs).
- b. Permanent Virtual Circuits (PVCs) are logical circuits that define a specific one-way path for data sent by the customer to another location. These circuits are virtual because they are established in software tables and do not tie up capacity when not in use. This also allows multiple PVCs to be defined over a single access line, thereby providing a single access line the capability to transmit data to multiple destinations.
- c. In the operation of Frame Relay Service, Customer Premises Equipment (CPE), such as routers, encapsulate arriving data into variable length frames. These frames contain information identifying which PVC in the network should be used to forward the frame to the proper destination. The CPE then sends the frame into the Frame Relay network. The Frame Relay switch reads identifying information and routes the frame to the proper destination based on a pre-established PVC.
- d. The statistical multiplexing Frame Relay switches are able to provide shared network resources to end users of this service.
- e. Frame Relay Service conforms to Consultative Committee for International Telegraph and Telephone (CCITT) and American National Standards Institute (ANSI) standards set forth in technical publications listed in this tariff under Reference to Technical Publications.
- f. Frame Relay Service, as provided for in this Tariff section, is offered for intralATA use only.
- g. The regulations and rates specified herein are in addition to the applicable regulations and rates specified in other sections of this Tariff.
- h. The rates and charges set forth for Frame Relay Service provide for the furnishing of service where suitable facilities are available.

.2 Regulations

a. Explanation of Terms

Customer Designated Location (CDL) - The geographic location designated by the customer at which an access component of the customer's service is first considered to enter the Company's network.

Frame - A sequence of contiguous bits delimited by beginning and ending flag sequences.

Frame Relay Access Line (FRAL) - Frame Relay Access Lines provide access to the Frame Relay Service (FRS) Network, connecting customer facilities at the Network Interface with a corresponding Frame Relay Port.

Local Area Network (LAN) - A network permitting the interconnection and intercommunication of a group of computers, primarily for the sharing of resources such as data storage devices and printers.

Logical Channel - A communications channel through the network that allows simultaneous transmission of sequenced data packets through the network.

Network Interface (NI) - The point at which a customer's data transmission first enters the network supporting Frame Relay Service is the Network Interface (NI). It is the point of interconnection between Company communications facilities and customer terminal equipment.

(N)

TARIFF REVISIONS
LEGISLATIVE FORMAT

A10. DIGITAL NETWORK SERVICES

A10.8 FRAME RELAY SERVICE (Continued)

.2 Regulations (Continued)

- d. Frame Relay is provided to the customer in the form of the Frame Relay Access Line and the Permanent Virtual Connection (PVC). The Frame Relay Access Line forms the local access component which provides the customer access to the customer's serving central office and a primary address associated specifically with that customer. The Logical Link consists of the Frame Relay network and the interoffice transport and facilities from the customer's Serving Central Office to the Frame Relay Office(s).
- e. GTE Florida does not undertake to originate data, but offers the use of its service components, where available, to customers for the purpose of transporting customer-originated data.

.3 Obligations of the Customer

- a. The customer's Frame Relay compatible terminal equipment has the responsibility for error correction. Frame Relay Service (FRS) nodes may discard frames with errors and may discard frames when the network supporting FRS is in a state of congestion.
- b. Where Frame Relay Service is available for use in connection with communications systems or equipment provided by a customer or user, the operating characteristics of such systems or equipment shall be such as not to interfere with any services offered by GTE Florida. Such use is subject to the further provisions that the equipment provided by the customer or user does not endanger the safety of GTE Florida employees or the public; damage, harm, require change in or alteration of the equipment or other services of GTE Florida; interfere with the proper operation of GTE Florida's equipment or otherwise injure the public in its use of GTE Florida services. Upon notice from GTE Florida that the equipment provided by the customer or user is causing, or is likely to cause, such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.
- c. The customer, upon request, shall furnish such information as may be required to permit GTE Florida to design and maintain the Frame Relay Service it offers and to assure that the service arrangement is in compliance with the regulations contained herein.
- d. It shall be the responsibility of the customer to ensure the continuing compatibility of the customer-provided equipment that is used in conjunction with the Frame Relay Service. The CPE shall be in compliance with rules and regulations as specified in Section A15 of this tariff.
- e. The customer shall be responsible for obtaining permission for GTE Florida agents or employees to enter the premises of the customer at any reasonable hour for the purpose of installing, inspecting, repairing, or, upon termination of the service, removing the service components of GTE Florida.
- f. The customer shall be responsible for the payment of a nonrecurring Trouble Isolation Charge as found in Section A15.4 of this tariff for each repair visit to a premises of the customer or the premises of any other customer where the service difficulty or trouble results from the use of equipment or service components provided by the customer.
- g. The Customer may only use a Frame Relay Access Line with Frame Relay Service.

.4 Obligations of the Telephone Company

- a. The responsibility of GTE Florida shall be limited to furnishing network equipment suitable for Frame Relay Service and to the maintenance and operation of such equipment in a manner proper for such service. Subject to this responsibility, GTE Florida shall not be responsible for the through transmission of signals generated by the customer-provided equipment or system, or for the quality of, or defects in, such transmission or the reception of signals by such equipment or systems.
- b. GTE Florida shall not be responsible for installation, operation or maintenance of any terminal equipment, data unit or communications system provided by a customer or user. GTE Florida is not responsible for adapting Frame Relay Service to the technological requirements of any specific customer equipment.
- c. When a customer orders a Permanent Virtual Connection (PVC) which is relayed to other Local Exchange Carriers, Interexchange Carriers or other Frame Relay networks, GTE Florida will provide advisory assistance as a part of the establishment of this PVC.

A10. DIGITAL NETWORK SERVICES

A10.8 FRAME RELAY SERVICE (Continued)

(N)

.4 Obligations of the Telephone Company (Continued)

- d. GTE Florida shall not be responsible to the customer or user if changes in any of the equipment, operations or procedures of GTE Florida used in the provision of Frame Relay Service render any facilities provided by the customer or user obsolete or require modification or alteration of such equipment or system or otherwise affect its use or performance, provided GTE Florida has met any applicable information disclosure requirements otherwise required by law.
- e. GTE Florida undertakes the responsibility to maintain and repair the service which it furnishes. Network equipment installed by GTE Florida on the customer's premises shall be and remain the property of GTE Florida. The customer or user may not rearrange, disconnect, remove, attempt to repair, remote test, or interface with any network equipment installed by GTE Florida without prior written consent by GTE Florida.
- f. GTE Florida, by written notice to the customer, may immediately discontinue the furnishing of Frame Relay Service without incurring liability upon nonpayment of any sum due to GTE Florida or a violation of any condition governing the furnishing of service.
- g. GTE Florida has the service responsibility up to and including the network interface.

.5 Rates and Charges

- a. The minimum contract period for Frame Relay Service is six months.
- b. After the minimum contract period lapses, Frame Relay Service may be maintained on a month-to-month basis.
- c. A subsequent order to add Frame Relay Access Line(s) and/or Port Connection and Switching to an existing installation will be for a minimum contract period of six months.
- d. A customer may access Frame Relay Service (FRS) via a Frame Relay Access Line or via Company-provided, digital, private line facilities. If a customer utilizes private line facilities, or private line transport with a Frame Relay Access Line, to access FRS, the associated regulations, rates and charges for such private line facilities shall apply in addition to the rates and charges associated with the FRS elements.
- e. A customer utilizing private line facilities to access FRS would not incur a nonrecurring charge, or monthly rate for a Frame Relay Access Line, but would incur all other monthly rates and nonrecurring charges normally associated with the ordering, installation and provisioning of Frame Relay Service.
- f. The total number of Frame Relay Permanent Virtual Connections (FR-PVCs) purchased determines the rate category for all FR-PVCs. For example, if 15 FR-PVCs are subscribed, then all PVCs will be rated at the monthly rate for 11 to 20 PVCs since 15 falls into that range.
- g. When a customer subsequently orders additional FR-PVCs, the sum total of all FR-PVCs subscribed to by the Customer shall be used to determine the customer's FR-PVC monthly rate category for all FR-PVCs then subscribed.
- h. When a customer orders additional PVCs or changes PVC assignments on a given FRS port after the initial port installation, the Frame Relay PVC nonrecurring charge shall apply.
- i. Service Rearrangements
- (1.) Service rearrangements are changes to existing (installed) services which do not result in a change in the physical location of the network interface. (Changes in the physical location of the network interface are treated as moves and are described and charged for as set forth herein.)
- (a.) Additions to Service
- (.1) With the exception of Frame Relay Permanent Virtual Connections (PVCs), when service elements are added to an existing service, the added elements must meet the minimum period requirements associated with the service to which they are added.
- (.2) When PVCs are added to an existing Frame Relay Service, the minimum period for the added PVCs is one month.

(N)

A10. DIGITAL NETWORK SERVICES

T-93-335

A10.8 FRAME RELAY SERVICE (Continued)

(M)

.5 Rates and Charges (Continued)

i. Service Rearrangements (Continued)

(1.) (Continued)

(c.) Administrative Changes

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

- Change of customer name, i.e., the customer or record does not change but rather the customer of record changes its name, e.g., XYZ Company to XYZ Communications,
- Change of customer premises address when the change of address is not a result of a physical relocation of facilities,
- Change in billing data (name, address, or contact name or telephone number),
- Change of customer contact name or telephone number, and
- Change of customer service element identification.

j. Rate Elements

(.1) Frame Relay Access Line (FRAL)

A nonrecurring charge and monthly rate, both based on the speed of the port connection (i.e., 56 Kbps or 1.544 Mbps), apply per port for each physical connection to the network supporting Frame Relay Service (FRS).

(.2) Frame Relay Port (FRP)

A monthly rate, based on the speed of the port connection (i.e., 56 Kbps or 1.544 Mbps) and the number of unidirectional PVCs assigned to the port, applies per port for each Frame Relay Access Line or digital private line connection to the network supporting FRS.

(.3) Frame Relay PVC (FR-PVC)

(.a) A nonrecurring charge and a monthly rate apply for each unidirectional PVC. A monthly rate based on the speed of the port connection (i.e., 56 Kbps or 1.544 Mbps) and the number of unidirectional PVCs assigned to the port, applies per port.

(.b) A nonrecurring charge applies for each subsequent order of PVC(s) to be added to PVC assignment(s) changed on an existing FRS.

k.

	<u>Nonrecurring Charge</u>	<u>GSEC</u>	<u>Monthly Rate</u>	<u>GSEC</u>
<u>(.1) Frame Relay Access Line (FRAL), per FRAL</u>				
<u>(.a) 56 Kbps FRAL</u>	\$ 340.00	FRALS6NRC	\$ 65.00	FRALS6
<u>(.b) 1.544 Mbps FRAL</u>	693.00	FRALT1NRC	200.00	FRALT1
<u>(.2) Frame Relay Port (FRP), per FRP</u>				
<u>(.a) 56 Kbps FRP</u>	50.00	FRPRTNRC	70.00	FRPRT56
<u>(.b) 1.544 Mbps FRP</u>	50.00	FRPRTNRC	400.00	FRPRT1
<u>(.3) Frame Relay Permanent Virtual Connection (PVC), per PVC</u>				
<u>(.a) 1 to 10 PVCs</u>	20.00	FRPVCNRC	5.00	FRPVC10
<u>(.b) 11 to 20 PVCs</u>	20.00	FRPVCNRC	4.00	FRPVC20
<u>(.c) 21 or more PVCs</u>	20.00	FRPVCNRC	3.00	FRPVC020

(N)