

**Development of Switching and Information Charges
Total Interstate**

Schedule 4

Company NanGTC, Inc.
Study Period: Historical 1997 & 1998

Local Switching Rate Development:

<u>Description</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amounts for Recurring Demand Charges</u>	<u>Local Switching Amounts</u>
Switching Revenue Requirement				\$1,776,905
Less 800 Data Base Queries - Basic	12,963,755	\$0.0036	(\$46,670)	
800 Data Base Queries - Vertical	0	\$0.0043	\$0	
Coin Supervision Additive	0	\$2.80	\$0	
Total Reductions				<u>(\$46,670)</u>
Net Switching Revenue Requirement				\$1,730,235
Access Minutes of Use (AMOU)				210,554,030
Local Switching Rate				<u><u>\$0.008218</u></u>

Information Surcharge Rate Development:

<u>Computation Basis</u>	<u>Access Minutes</u>	<u>Surcharge AMOU Per 100</u>	<u>Information Revenue Requirement</u>	<u>Directory Asst. Surcharge Rate</u>	<u>Surcharge Rate Per 100 MOU</u>
Total Company	210,554,030	2,105,540	\$134,555	\$0.000639	<u><u>\$0.063905</u></u>

Operator Transfer Service Rate Development:

<u>Description</u>	<u>Quantity</u>	<u>Revenue Requirement</u>	<u>Per Call Rate</u>
Operator Transfer Revenue Requirement	160	\$79.00	<u><u>\$0.493750</u></u>

Billing Name & Address Rate Development:

<u>Description</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amounts</u>	<u>BNA Revenue Requirement</u>
BNA Revenue Requirement				<u><u>\$0.00</u></u>
BNA Order	0	\$50.94	\$0	
BNA Record	0	\$0.33	\$0	

Note: There were no requests for BNA - Rates are shown at prior tariffed rates.

**Development of Special Access Charges
Total Interstate**

Schedule 5

Company Name: GTC, Inc.
Study Period: Historical 1997 & 1998

Special Access	Unit	Two-Year Quantity	Equalized Revenue Requirement	Per Circuit Cost	Monthly Rate
Channel Termination					
VG Two-Wire Circuit	Per Term	501	\$5,678	\$11.33	\$11.33
VG Four-Wire Circuit	Per Term	5,156	\$119,343	\$23.15	\$23.15
Digital Data - 2 & 4 Wire	Per Term	2,272	\$56,947	\$25.06	\$25.06
Hi-Cap - 2 & 4 Wire	Per Term	1,751	\$243,221	\$138.90	\$138.90
Hi-Cap - DS3	Per Term	12	\$19,924	\$1,660.35	\$1,660.35
Channel Mileage					
Termination - Voice	Per Term	3,383	\$65,894	\$19.48	\$19.48
Termination - Digital Data 2.4 to	Per Term	88	\$1,714	\$19.48	\$19.48
Termination - Digital Data 56.0 t	Per Term	2,096	\$40,826	\$19.48	\$19.48
Termination - Hi Cap 1.544	Per Term	1,473	\$172,159	\$116.88	\$116.88
Termination - Hi Cap 44.736	Per Term	12	\$5,106	\$425.48	\$425.48
Facility - Voice	Per CCT Mile	72,415	\$98,095	\$1.35	\$1.35
Facility - Digital Data 2.4 to 19.2	Per CCT Mile	2,248	\$3,045	\$1.35	\$1.35
Facility - Digital Data 56.0 to 64.	Per CCT Mile	57,358	\$77,699	\$1.35	\$1.35
Facility - Hi Cap 1.544	Per CCT Mile	17,692	\$143,945	\$8.14	\$8.14
Facility - Hi Cap 44.736	Per CCT Mile	36	\$10,617	\$294.91	\$294.91
Optional Features & Functions:					
VG Bridging:					
Voice	Per Port	168	\$869	\$5.17	\$5.17
Data	Per Port	168	\$869	\$5.17	\$5.17
VG Conditioning:					
C-Type	Per Port	27	\$179	\$6.65	\$6.65
Data Capability	Per Port	358	\$1,596	\$4.46	\$4.46
VG Improved Return Loss - 2 & 4	Per Port	1,027	\$11,536	\$11.23	\$11.23
VG Customer Specified Receive L	Per Port	72	\$533	\$7.40	\$7.40
VG Signaling Capability	Per Port	1,114	\$12,654	\$11.36	\$11.36
HC Multiplexing, DS1 to Voice	Per Port	24	\$4,288	\$178.67	\$178.67
HC Automatic Loop Transfer	Per Port	45	\$7,671	\$170.46	\$170.46
Sub Check Total		169,496	<u>\$1,104,409</u>		
NON-RECURRING					
Installation - VG Ch. Term. - 2 Wir Per Termination		2	\$410	\$205.00	\$205.00
Installation - VG Ch. Term. - 4 Wir Per Termination		35	\$7,175	\$205.00	\$205.00
Installation - DD Ch. Term. - 4 Wir Per Termination		78	\$16,848	\$216.00	\$216.00
Installation - HC Ch. Term. - 4 Wir Per Termination		47	\$11,515	\$245.00	\$245.00
Installation - HC Ch. Term. - DS3 Per Termination		2	\$1,178	\$589.00	\$589.00
ACCESS ORDERING					
Access Order	Per Order	170	\$12,920	\$76.00	\$76.00
Service Date Change	Per Order	0	\$0	\$0.00	\$0.00
Misc. Service Order	Per Order	0	\$0	\$0.00	\$0.00
Tele. Service Priority	Per Order	0	\$0	\$0.00	\$0.00
VG Move	Per Order	2	\$62	\$31.00	\$31.00
HC Move	Per Order	2	\$410	\$205.00	\$205.00
TESTING & MAINTENANCE					
CO Tech - Basic	Per 1/2 Hour	188	\$3,734	\$19.86	\$19.86
CO Tech - Overtime	Per 1/2 Hour	100	\$2,979	\$29.79	\$29.79
CO Tech - Premium	Per 1/2 Hour	63	\$2,502	\$39.71	\$39.71
Totals		170,185	<u>\$1,164,141</u>		

**Development of Toll Access Revenue
Total Interstate**

Company Name: GTC, Inc.
Study Period: Historical 1997 & 1998

Some Elements with No Demand are Not Shown

Access Element	Unit of Measure	Combined 1997 & 1998 Quantity	Proposed Monthly Access Rate	1997 & 1998 Access Revenue
Switching	Access MOU	210,554,030	\$.008218	\$1,730,235
Information Surcharge AMOU	Access MOU	210,554,030	\$.000639	\$134,555
Operator Transfer Service	Per Call	160	\$.493750	\$79
Local Transport:				
Entrance Facility:				
Voice Grade 4 - Wire	Per Facility	461	\$23.15	\$10,666
DS1	Per Facility	177	\$138.90	\$24,636
Direct Trunked Transport Termination:				
Voice Grade 4 - Wire	Per Facility	1,742	\$19.48	\$33,929
DS1	Per Facility	93	\$116.88	\$10,819
Direct Trunked Transport Facility:				
Voice Grade 4 - Wire	Per Mile	35,953	\$1.35	\$48,703
DS1	Per Mile	1,477	\$8.14	\$12,015
Tandem Switched Transport:				
- Tandem Switching	Access MOU	144,945,925	\$.000200	\$28,989
- Tandem Switched Termination	Access MOU	183,386,576	\$.001686	\$309,156
- Tandem Switched Facility	MOU Miles	5,401,643,461	\$.000117	\$631,784
Residual Interconnection Charge	Access MOU	210,554,030	\$.003837	\$807,911
Installation - LT Entrance Facility - HCDS1		2.57	\$245.00	\$630
800 Data Base Queries - Basic	Per Query	12,963,755	\$0.0036	\$46,670
800 Data Base Queries - Vertical	Per Query	0	\$0.0043	\$0
Access Service Orders	Per Order	64.93	\$76.00	\$4,935
Interim NXX Translation	Per Order	1.50	\$76.00	\$114
Trunk Activation	Per Order	22.57	\$265.00	\$5,981
Tele. Service Priority - Switched	Per Order	57.00	\$54.63	\$3,114
Network Blocking Per Blocked Call (FGD)	Per Call	0.00	\$0.0308	\$0
PIC Change - NRC	Per Occurance	163.00	\$5.00	\$815
Unauthorized PIC Change Charge - Bus/R	Per Occurance	0.00	\$35.65	\$0
Unauthorized PIC Change Charge - Semi	Per Occurance	0.00	\$57.57	\$0
BNA Order	Per Order	0.00	\$50.94	\$0
BNA Record	Per Call	0.00	\$0.33	\$0
Blocking Service	Per Line/Trunk	0.00	\$9.93	\$0
Special Access - Channel Termination				
Two-Wire Circuit	Per Circuit	501	\$11.33	\$5,678
Four-Wire Circuit	Per Circuit	5,156	\$23.15	\$119,343
Digital Data	Per Circuit	2,272	\$25.06	\$56,947
Hi-Cap	Per Circuit	1,751	\$138.90	\$243,221
Hi-Cap DS3	Per Circuit	12	\$1,660.35	\$19,924

**Development of Toll Access Revenue
Total Interstate**

Company Name: GTC, Inc.
Study Period: Historical 1997 & 1998

Some Elements with No Demand are Not Shown

Access Element	Unit of Measure	Combined 1997 & 1998 Quantity	Proposed Monthly Access Rate	1997 & 1998 Access Revenue
Special Access - Mileage - Termination				
- Voice Grade	Per Circuit	3,383	\$19.48	\$65,894
- Digital Data 2.4 to 19.2	Per Circuit	88	\$19.48	\$1,714
- Digital Data 56.0 to 64.0	Per Circuit	2,096	\$19.48	\$40,826
- Hi Cap 1.544	Per Circuit	1,473	\$116.88	\$172,159
- Hi Cap 44.736	Per Circuit	12	\$425.48	\$5,106
Special Access - Mileage - Facility				
Facility - Voice	Per CCT Mile	72,415	\$1.35	\$98,095
Facility - Digital Data 2.4 to 19.2	Per CCT Mile	2,248	\$1.35	\$3,045
Facility - Digital Data 56.0 to 64.0	Per CCT Mile	57,358	\$1.35	\$77,699
Facility - Hi Cap 1.544	Per CCT Mile	17,692	\$8.14	\$143,945
Facility - Hi Cap 44.736	Per CCT Mile	36	\$294.91	\$10,617
Optional Features and Functions:				
VG Bridging:				
Voice	Per Circuit	168	\$5.17	\$869
Data	Per Circuit	168	\$5.17	\$869
VG Conditioning:				
C-Type	Per Circuit	27	\$6.65	\$179
Data Capability	Per Circuit	358	\$4.46	\$1,596
VG Improved Return Loss - 2 & 4 Wire	Per Circuit	1,027	\$11.23	\$11,536
VG Customer Specified Receive Level	Per Circuit	72	\$7.40	\$533
VG Signaling Capability	Per Circuit	1,114	\$11.36	\$12,654
HC Multiplexing, DS1 to Voice				
HC Automatic Loop Transfer	Per Circuit	24	\$178.67	\$4,288
	Per Circuit	45	\$170.46	\$7,671
Installation - VG Ch. Term. - 2 Wire				
Installation - VG Ch. Term. - 4 Wire	Per Circuit	2	\$205.00	\$410
Installation - VG Ch. Term. - 4 Wire	Per Circuit	35	\$205.00	\$7,175
Installation - DD Ch. Term. - 4 Wire	Per Circuit	78	\$216.00	\$16,848
Installation - HC Ch. Term. - 4 Wire	Per Circuit	47	\$245.00	\$11,515
Installation - HC Ch. Term. - DS3	Per Circuit	2	\$589.00	\$1,178
<u>ACCESS ORDERING</u>				
Access Order	Per Order	170	\$76.00	\$12,920
Service Date Change	Per Order	0	\$31.00	\$0
Misc. Service Order	Per Order	0	\$31.00	\$0
Tele. Service Priority	Per Order	0	\$31.00	\$0
VG Move	Per Order	2	\$31.00	\$62
HC Move	Per Order	2	\$205.00	\$410
<u>TESTING & MAINTENANCE</u>				
CO Tech - Basic		188	\$19.86	\$3,734
CO Tech - Overtime		100	\$29.79	\$2,979
CO Tech - Premium		63	\$39.71	\$2,502
Total				<u>\$5,009,877</u>