

ACCESS SERVICE

TABLE OF CONTENTS

	<u>Page No.</u>
Check Sheets	1
Table of Contents	23
Concurring Carriers	43
Connecting Carriers	43
Other Participating Carriers	43
Registered Service Marks Registered Trademarks	43
Explanation of Symbols	44
Explanation of Abbreviations	44
Reference to Other Tariffs	47
Reference to Other Publications	47
 1. <u>APPLICATION OF TARIFF</u>	 1-1
 2. <u>GENERAL REGULATIONS</u>	 2-1
2.1 <u>Undertaking of the Telephone Company</u>	2-1
2.1.1 Scope	2-1
2.1.2 Limitations	2-1
2.1.3 Liability	2-2
2.1.4 Provision of Services	2-4
2.1.5 Installation and Termination of Services	2-4
2.1.6 Maintenance of Services	2-5
2.1.7 Changes and Substitutions	2-5
2.1.8 Refusal and Discontinuance of Service	2-6
2.1.9 Limitation of Use of Metallic Facilities	2-8
2.1.10 Notification of Service-Affecting Activities	2-8
2.1.11 Coordination with Respect to Network Contingencies	2-8
2.1.12 Provision and Ownership of Telephone Numbers	2-8

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>	
2. <u>GENERAL REGULATIONS</u> (Cont'd)		
2.2 <u>Use</u>	2-9	
2.2.1 Interference or Impairment	2-9	
2.2.2 Unlawful Use	2-9	
2.2.3 Commingling	2-9	
2.3 <u>Obligations of the Customer</u>	2-10	
2.3.1 Damages	2-10	
2.3.2 Ownership of Facilities and Theft	2-10	
2.3.3 Equipment Space and Power	2-10	
2.3.4 Availability for Testing	2-11	
2.3.5 Balance	2-11	
2.3.6 Design of Customer Services	2-11	
2.3.7 References to the Telephone Company	2-11	
2.3.8 Claims and Demands for Damages	2-12	
2.3.9 Coordination with Respect to Network Contingencies	2-12	
2.3.10 Jurisdictional Report Requirements	2-13	
2.3.11 Determination of Interstate Charges for Mixed Interstate and Intrastate Switched Access Service	2-21	
2.3.12 Determination of Jurisdiction of Mixed Use Special Access Service	2-22	
2.3.13 Identification and Rating of VoIP-PSTN Traffic	2-22.1	(N)
2.4 <u>Payment Arrangements</u>	2-23	
2.4.1 Payment of Rates, Charges and Deposits	2-23	
2.4.2 Minimum Periods	2-30	
2.4.3 Cancellation of an Order for Service	2-31	
2.4.4 Re-establishment of Service Following Fire, Flood or Other Occurrence	2-31	
2.4.5 Title or Ownership Rights	2-31	
2.4.6 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company Is Involved	2-32	
2.4.7 Ordering, Rating and Billing of Switched Access Service Provided in Conjunction with a Cellular Exchange Carrier or a Radio Common Carrier	2-38	

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
2. <u>GENERAL REGULATIONS</u> (Cont'd)	
2.5 <u>Connections</u>	2-38
2.5.1 General	2-38
2.6 <u>Definitions</u> 2-39	
2.7 <u>Service Level Agreements</u>	2-68
2.7.1 Basic Service Level Agreements (Basic SLAs)	2-68
2.7.2 Enhanced Service Level Agreements (Enhanced SLAs)	2-81
2.7.3 National Service Level Agreements (National SLAs)	2-96
2.7.4 When a Credit Allowance Does Not Apply	2-108
2.8 <u>Sale or Transfer of an Operating Telephone Company's Assets and/or Stock to an Unaffiliated Third Party</u>	2-112
2.8.1 General	2-112
2.8.2 Undertaking of the Telephone Company Following a Transfer	2-113
2.9 <u>Initial Transfer of Assets from Predecessor Company</u>	2-119
3. <u>CARRIER COMMON LINE ACCESS SERVICE</u>	3-1
3.1 <u>General Description</u>	3-1
3.2 <u>Limitations</u> 3-2	
3.2.1 Exclusions	3-2
3.2.2 Access Groups	3-2
3.2.3 WATS Access Lines	3-2
3.3 <u>Undertaking of the Telephone Company</u>	3-3
3.3.1 Provision of Service	3-3
3.3.2 Interstate and Intrastate Use	3-3
3.4 <u>Obligations of the Customer</u>	3-3
3.4.1 Switched Access Service Requirement	3-3
3.4.2 Supervision	3-3

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
3. <u>CARRIER COMMON LINE ACCESS SERVICE</u> (Cont'd)	
3.5 <u>Determination of Usage Subject to Carrier Common Line Charges</u>	3-4
3.5.1 Determination of Jurisdiction	3-4
3.5.2 Switched Access Service Provided in Conjunction with a Cellular Exchange Carrier or a Radio Common Carrier	3-4
3.5.3 Local Exchange Access and Enhanced Services Exemption	3-4
3.6 <u>Resold Services</u>	3-5
3.6.1 Scope	3-5
3.6.2 Customer Obligations Concerning the Resale of MTS and MTS-type Services	3-5
3.6.3 Resale Documentation Provided by the Customer	3-6
3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-type Services	3-6
3.7 <u>Rate Regulations</u>	3-10
3.7.1 Billing of Charges	3-10
3.7.2 Measuring and Recording of Call Detail	3-11
3.7.3 Unmeasured Lineside BSA and Feature Group A	3-11
3.7.4 Percent Interstate Use	3-11
3.7.5 Determination of Premium and Non-Premium Charges	3-12
3.8 <u>Rates and Charges</u>	3-13

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
4. <u>END USER ACCESS SERVICE AND PRESUBSCRIPTION</u>	4-1
4.1 <u>End User Access Service</u>	4-1
4.1.1 General Description	4-1
4.1.2 Limitations	4-1
4.1.3 Undertaking of the Telephone Company	4-1
4.1.4 Obligations of the Customer	4-2
4.1.5 Payment Arrangements and Credit Allowances	4-2
4.1.6 Rate Regulations	4-3
4.1.7 Rates and Charges	4-9
4.2 <u>Presubscription</u>	4-15
4.2.1 General	4-15
4.2.2 End User/Payphone Service Provider Choice Discrepancy	4-16
4.2.3 PIC Change Options	4-17
4.2.4 Presubscription Charge Application	4-17
4.2.5 PIC NONE	4-20
4.2.6 1+ Coin Sent Paid Presubscription	4-22
4.2.7 The charge for a change in Presubscription	4-23
4.3 <u>Auto Transfer</u>	4-24
5. <u>ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE</u>	5-1
5.1 <u>General</u>	5-1
5.1.1 Ordering Conditions	5-1
5.1.2 Provision of Other Services	5-2
5.1.3 Special Construction	5-2
5.2 <u>Access Order</u>	5-3
5.2.1 Access Order Service Date Intervals	5-12
5.2.2 Access Order Modifications	5-14
5.2.3 Cancellation of an Access Order	5-20
5.2.4 Selection of Facilities For Access Orders	5-31
5.2.5 Minimum Period	5-31
5.2.6 Minimum Period Charges	5-32
5.2.7 Discontinuance of Access Service	5-33
5.2.8 Shared Use Facilities	5-33

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
6. <u>SWITCHED ACCESS SERVICE</u>	6-1
6.1 <u>General</u>	6-1
6.1.1 Switched Access Service Arrangements	6-1
6.1.2 Rate Categories	6-7
6.1.3 Special Facilities Routing	6-44
6.1.4 Design Layout Report	6-44
6.1.5 Acceptance Testing	6-44
6.1.6 Ordering Options and Conditions	6-44
6.2 <u>Provision and Description of Switched Access Service Arrangements</u>	6-45
6.2.1 Feature Group A (FGA)	6-46
6.2.2 Feature Group B (FGB)	6-50
6.2.3 Feature Group C (FGC)	6-55
6.2.4 Feature Group D (FGD)	6-59
6.2.5 Switched Transport Facilities	6-67
6.3 <u>Provision and Description of Switched Access BSAs</u>	6-70
6.3.1 Lineside BSA	6-71
6.3.2 Trunkside BSA	6-76
6.3.3 Dedicated Network Access Link BSA	6-95
6.4 <u>Common Switching and Transport Termination Optional Features and BSEs</u>	6-102
6.4.1 Common Switching Optional Features and BSEs Where Available	6-104
6.4.2 Transport Termination Optional Features	6-130
6.4.3 Switched Transport Optional Features	6-132
6.5 <u>Transmission Specifications</u>	6-139
6.5.1 Standard Transmission Specifications	6-140
6.5.2 Data Transmission Parameters	6-145

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
6. <u>SWITCHED ACCESS SERVICE</u> (Cont'd)	
6.6 <u>Obligations of the Telephone Company</u>	6-148
6.6.1 Network Management	6-148
6.6.2 Design and Traffic Routing of Switched Access Service	6-148
6.6.3 Provision of Service Performance Data	6-149
6.6.4 Trunk Group Measurements Reports	6-149
6.6.5 Determination of Number of Transmission Paths	6-149
6.6.6 Determination of Number of End Office Transport Terminations	6-149
6.6.7 Designed Blocking Probability	6-150
6.6.8 End User Line and Usage Information Data	6-152
6.6.9 Bill Verification Data	6-153
6.6.10 Operator Transfer Service	6-153
6.7 <u>Obligations of the Customer</u>	6-153
6.7.1 Report Requirements	6-153
6.7.2 Supervisory Signaling	6-155
6.7.3 Trunk Group Measurements Reports	6-155
6.7.4 Design of Switched Access Services	6-155
6.8 <u>Rate Regulations</u>	6-156
6.8.1 Description and Application of Rates and Charges	6-156
6.8.2 Minimum Periods	6-173
6.8.3 Reserved for Future Use	6-173
6.8.4 Minimum Monthly Charge	6-173
6.8.5 Change of Feature Group or BSA Type	6-174
6.8.6 Conversion of Existing Feature Groups to Basic Service Arrangements	6-177
6.8.7 Moves	6-179
6.8.7 Moves	6-179
6.8.8 Measuring Access Minutes	6-179
6.8.9 Reserved	6-187
6.8.10 Application of Rates For Extension Service	6-188

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
6. <u>SWITCHED ACCESS SERVICE</u> (Cont'd)	
6.8 <u>Rate Regulations</u> (Cont'd)	
6.8.11 Message Unit Credit	6-188
6.8.12 Local Information Delivery Services	6-188
6.8.13 Mileage Measurement	6-189
6.8.14 Facility Hubs	6-193
6.8.15 Shared Use	6-193
6.8.16 Reserved	6-193
6.8.17 Shared Use High Capacity Services	6-193
6.8.18 Host/Remote	6-195
6.8.19 Reserved	6-195
6.8.20 Shared Network Arrangement	6-195
6.8.21 Switched Access Signalling Service	6-196
6.8.22 Reserved	6-196
6.8.23 Reserved	6-196
6.8.24 Reserved	6-197
6.8.25 Dedicated SONET Services	6-197
6.8.26 Facilities Management Service	6-239
6.9 <u>Rates and Charges</u>	6-252
6.9.1 Switched Transport	6-252
6.9.2 End Office	6-277
6.9.3 Message Unit Credit	6-292
6.9.4 Equal Access Recovery Charge	6-292
6.9.5 Information Surcharge	6-292
6.9.6 Reserved	6-292
6.9.7 Switched 56 Kilobit Service	6-292
6.9.8 Operator Transfer Service	6-292
6.9.9 0+900 Access Service	6-292
6.9.10 Facilities Management Service	6-293
6.9.11 Reserved	6-306
6.9.12 Common Switching and Transport Termination Optional Features and BSEs	6-306

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
7. <u>SPECIAL ACCESS SERVICE</u>	7-1
7.1 <u>General</u>	7-1
7.1.1 Channel Types	7-1
7.1.2 Rate Categories	7-4
7.1.3 Service Configurations	7-6
7.1.4 Alternate Use	7-10
7.1.5 Special Facilities Routing	7-10
7.1.6 Design Layout Report	7-10
7.1.7 Acceptance Testing	7-10
7.1.8 Ordering Options and Conditions	7-11
7.1.9 Special Access Surcharge	7-11
7.1.10 Connections With Other Network Services	7-11
7.2 <u>Service Descriptions</u>	7-11
7.2.1 Metallic Service	7-14
7.2.2 Telegraph Grade Service	7-15
7.2.3 Voice Grade Service	7-16
7.2.4 Program Audio Service	7-26
7.2.5 Video Service	7-28
7.2.6 Wideband Analog Service	7-51
7.2.7 Wideband Data Service	7-54
7.2.8 Digital Data Service	7-56
7.2.8.1 Bonded Digital Link Service	7-59
7.2.9 High Capacity Service	7-61
7.2.10 Lightwave Facilities	7-69
7.2.11 LAN Extension Service	7-70
7.2.12 Reconfigure Service	7-77
7.2.13 Facilities Management Service	7-85
7.2.14 Dedicated SONET Services	7-99
7.2.15 Dedicated SONET Entrance Facilities	7-149
7.2.16 Ethernet Private Line	7-159

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>	
7.		<u>SPECIAL ACCESS SERVICE (Cont'd)</u>
7.3		<u>Channel Interface and Network Channel Codes</u> 7-171
7.3.1		Glossary of Channel Interface Codes and Options 7-171
7.3.2		Impedance 7-176
7.3.3		Digital Hierarchy Channel Interface Codes 7-176
7.3.4		Service Designator/Network Channel Code Conversion Table 7-177
7.3.5		Compatible Channel Interfaces 7-179
7.4		<u>Rate Regulations</u> 7-197
7.4.1		Types of Rates and Charges 7-197
7.4.2		Surcharge for Special Access Service 7-207
7.4.3		Message Station Equipment Recovery Charge 7-210
7.4.4		Minimum Periods 7-211
7.4.5		Moves 7-212
7.4.6		Mileage Measurement 7-213
7.4.7		Facility Hubs 7-214
7.4.8		Shared Use Analog and Digital High Capacity Services 7-216
7.4.9		Reserved for Future Use 7-217
7.4.10		Special Access Rate Exceptions 7-218
7.4.11		WATS Access Line Service 7-218
7.4.12		Reserved 7-219
7.4.13		DS3 High Capacity Services 7-221
7.4.14		Shared Network Arrangement 7-226
7.4.15		Lightwave Facilities 7-227
7.4.16		Video Service Arrangements 7-229
7.4.17		Digital Data and DS1 High Capacity Services 7-232
7.4.18		Voice Grade Service Term Pricing Plans 7-242
7.4.19		Commitment Discount Plans 7-246

(C)

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>	
7. <u>SPECIAL ACCESS SERVICE</u> (Cont'd)		
7.5 <u>Rates and Charges</u>	7-247	
7.5.1 Metallic Service	7-247	
7.5.2 Telegraph Grade Service	7-248	
7.5.3 Voice Grade Service	7-250	
7.5.3.1 WATS Access Line Service	7-260	
7.5.4 Program Audio Service	7-262	
7.5.5 Video Service	7-264	
7.5.6 Wideband Analog Service	7-296	
7.5.7 Wideband Data Service	7-297	
7.5.8 Digital Data Service	7-299	
7.5.8.1 Bonded Digital Link Service	7-303	
7.5.9 High Capacity Service	7-304	
		(D)
7.5.10 Lightwave Facilities	7-339	
7.5.11 Non-Standard Premises (NSP) Connection Charge	7-339	
7.5.12 Reconfigure Service	7-341	
7.5.13 Message Station Equipment Recovery Charge	7-342	
7.5.14 Special Access Surcharge	7-342	
7.5.15 Reserved	7-342	(C)
7.5.16 Term Pricing Plans (DDS & DS1)	7-343	
7.5.17 Reserved	7-363	(C)
7.5.18 Facilities Management Service	7-364	
7.5.19 Reserved	7-378	
7.5.20 Dedicated SONET Shared Dual Path	7-379	
7.5.21 Dedicated SONET Entrance Facilities	7-383	
7.5.22 Dedicated SONET Shared Assurance Network	7-452	
7.5.23 LAN Extension Service	7-460	
7.5.24 Dedicated SONET Optical Transport Service	7-463	
7.5.25 Ethernet Private Line	7-586	
7.6 <u>Individual Case Filings</u>	7-636	
8. <u>SONET Special Access Services</u>	8-1	
8.1 <u>General</u>	8-1	
8.2 Dedicated SONET Broadband Transport (DSBT)	8-5	
8.3 Dedicated SONET shared Single Path (DSSSP)	8-59	

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
9. <u>DIRECTORY ASSISTANCE SERVICE</u>	9-1
9.1 <u>General Description</u>	9-1
9.1.1 Service Description	9-1
9.2 <u>Undertaking of the Telephone Company</u>	9-2
9.3 <u>Obligations of the Customer</u>	9-6
9.4 <u>Payment Arrangements</u>	9-7
9.5 <u>Rate Regulations</u>	9-12
9.6 <u>Rates and Charges</u>	9-13
10. <u>FEDERAL GOVERNMENT ACCESS SERVICES</u>	10-1
10.1 <u>General</u>	10-1
10.2 <u>Emergency Conditions</u>	10-1
10.3 <u>Intervals to Provide Service</u>	10-2
10.4 <u>Facility Availability</u>	10-2
10.5 <u>Federal Government Regulations</u>	10-2
10.6 <u>Mileage Application</u>	10-2
10.7 <u>Move Charges</u>	10-2
10.8 <u>Security and Emergency Services</u>	10-3
10.8.1 Type and Description	10-3
10.8.2 Rates and Charges	10-9

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
10. <u>FEDERAL GOVERNMENT ACCESS SERVICES</u> (Cont'd)	
10.9 <u>Specialized Services and Arrangements</u>	10-15
10.9.1 Reserved	10-15
10.9.2 Government Emergency Telecommunications- Alternate Carrier Routing Service (GETS-ACR)	10-15
10.9.3 Reserved	10-18
10.9.4 Reserved	10-18
10.9.5 Reserved	10-18
10.9.6 FAA Telecommunications Infrastructure (FTI)	10-19
11. <u>SPECIAL FACILITIES ROUTING OF ACCESS SERVICES</u>	11-1
11.1 <u>Description of Special Facilities Routing of Access Services</u>	11-1
11.1.1 Diversity	11-1
11.1.2 Avoidance	11-1
11.1.3 Cable-Only Facilities	11-1
11.2 <u>Rates and Charges for Special Facilities Routing of Access Service</u>	11-2
11.2.1 Diversity	11-2
11.2.2 Avoidance	11-2
11.2.3 Diversity and Avoidance Combined	11-2
11.2.4 Cable-Only Facilities	11-3
11.2.5 Individual Case Filings	11-3
12. <u>SPECIALIZED SERVICE OR ARRANGEMENTS</u>	12-1
12.1 <u>General</u>	12-1
12.2 <u>Move Charges</u>	12-1
12.3 <u>Rates and Charges</u>	12-2

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
13. <u>ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES</u>	13-1
13.1 <u>Additional Engineering</u>	13-1
13.1.1 Charges for Additional Engineering	13-1
13.2 <u>Additional Labor</u>	13-2
13.2.1 Overtime Installation	13-2
13.2.2 Overtime Repair	13-2
13.2.3 Standby	13-2
13.2.4 Testing and Maintenance with Other Telephone Companies	13-3
13.2.5 Other Labor	13-3
13.2.6 Charges for Additional Labor	13-3
13.3 <u>Miscellaneous Services</u>	13-5
13.3.1 Reserved for Future Use	13-5
13.3.2 Reserved for Future Use	13-5
13.3.3 Standard Jacks - Registration Program	13-5
13.3.4 Testing Services	13-11
13.3.5 Protective Connecting Arrangements	13-25
13.3.6 Provision of Access Service Billing Information	13-29
13.3.7 Miscellaneous Equipment	13-32
13.3.8 Line Status Verification and Verification with Call Interruption	13-33
13.3.9 Originating Line Screening (OLS) Information	13-36
13.3.10 International Blocking	13-36
13.3.11 Billing Name and Address for Automatic Number Identification for Listed and Non-Published/Non-Listed Customers	13-37
13.3.12 900 Blocking Service	13-39
13.3.13 InterLATA Operator Services	13-40
13.3.14 ISP Traffic Origination Service	13-44
13.3.15 Optional Features for Payphone Access lines	13-45
13.3.16 Service Provider Number Portability	13-47
13.3.17 Long Distance Trouble Management Services (LDTMS)	13-53

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
14. <u>OPERATING TERRITORY OF THE FRONTIER TELEPHONE COMPANIES</u>	14-1
14.1 <u>Rate Centers</u>	14-1
14.1.1 State of West Virginia	14-1
14.1.2 State of Virginia	14-2
14.2 <u>Rate Zones Wire Center Assignment</u>	14-3
14.3 <u>Metropolitan Statistical Areas</u>	14-7
15. <u>EXCEPTIONS TO ACCESS SERVICE OFFERINGS</u>	15-1
16. <u>PACKET DATA SERVICES</u>	16-1
16.1 <u>Reserved for Future Use</u>	16-1
16.2 <u>Reserved for Future Use</u>	16-1
16.3 <u>Reserved for Future Use</u>	16-1
16.4 <u>Reserved for Future Use</u>	16-1
16.5 <u>IP (Internet Protocol) Routing Service</u>	16-2
16.5.1 Service Description	16-2
16.5.2 Technical Specifications	16-3
16.5.3 Terms and Conditions	16-4
16.5.4 Rate Regulations	16-5
16.5.5 Rate Categories	16-8
16.5.6 Rates and Charges	16-9
16.6 <u>Reserved for Future Use</u>	16-12
16.7 <u>Channel Extension Service</u>	16-12
16.7.1 Service Description	16-12
16.7.2 Technical Specifications	16-13
16.7.3 Terms and Conditions	16-14
16.7.4 Rate Regulations	16-15
16.7.5 Rate Categories	16-16
16.7.6 Rates and Charges	16-17

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
17. <u>RESERVED FOR FUTURE USE</u>	17-1
18. <u>INTERCONNECTION BETWEEN COLLOCATED SPACES</u>	18-1
18.1 <u>Dedicated Transit Service</u>	18-1
18.1.1 Description	18-1
18.1.2 Responsibility of the Collocator	18-1
18.1.3 Rate Regulations	18-2
18.1.4 Rates and Charge	18-2
19. <u>COLLOCATED INTERCONNECTION SERVICE</u>	19-1
19.1 <u>General</u>	19-1
19.2 <u>Service Description</u>	19-3
19.2.1 Minimum Periods	19-5
19.3 <u>Regulations</u>	19-6
19.3.1 Design & Planning	19-10
19.3.2 Acceptance and Turnover of Space(s)	19-14
19.3.3 Other Obligations of Collocators	19-16
19.3.4 Use of Space	19-18
19.3.5 Installation, Engineering and Maintenance	19-19
19.3.6 Rules of Conduct	19-30
19.3.7 Liability and Damages	19-30
19.3.8 Confidential Information	19-34
19.3.9 Business Integrated Timing Supply	19-35
19.4 <u>Physically-Collocated Interconnection</u>	19-36
19.5 <u>Virtually-Collocated Interconnection</u>	19-42
19.6 <u>Rate Regulations</u>	19-45

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
19. <u>COLLOCATED INTERCONNECTION SERVICE</u> (Cont'd)	
19.7 <u>Rates and Charges</u>	19-49
19.7.1 Virtual Collocation	19-49
19.7.2 Physical Collocation	19-50
19.7.3 Telephone Company-Designated Central Offices for Physical, SCOPE, and Virtual Collocated Interconnection	19-51
19.7.4 Physical	19-52
19.7.5 Virtual	19-54
19.7.6 Training (Virtual Collocation Only)	19-55
19.7.7 Security, Escort, and Additional Labor Charges	19-56
19.8 <u>Reserved for Future Use</u>	19-57
19.9 <u>Negotiated Terms and Conditions</u>	19-57
19.9.1 Collocated Interconnection Construction Charges	19-57
19.9.2 Physical Collocation Construction Charges	19-57
19.10 <u>Collocated Interconnection Service Alternatives</u>	19-58
19.10.1 Secured Collocation Open Physical Environment (SCOPE)	19-58
19.10.2 Shared Physical Collocation Arrangements	19-68
19.10.3 Provision of Facilities Involving a Competitive Alternate Transport Terminal	19-70
19.10.4 Microwave Collocation	19-75
20. <u>INCIDENTAL INTERLATA SERVICE</u>	20-1
20.1 <u>Miscellaneous Services</u>	20-1
20.1.1 CCS - Gateway Access Service	20-1
20.1.2 Call Management Signaling Service	20-2

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>	
21. <u>CONTRACT TARIFFS</u>	21-1	
21.1 General	21-1	
21.2 Contract Tariff Option 22	21-2	
21.3 Contract Tariff Option 33	21-12	
21.4 Contract Tariff Option 39	21-23	
21.5 Contract Tariff Option 49	21-33	
21.6 Contract Tariff Option 56	21-66	
21.7 Contract Tariff Option 57	21-103	
21.8 Contract Tariff Option 59	21-128	
21.9 Contract Tariff Option 61	21-171	
21.10 Contract Tariff Option 62	21-186	(N)
21.11 Contract Tariff Option 63	21-205	(N)

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
22. ADVANCED COMMUNICATIONS NETWORKS	22-1
22.1 <u>TCP/IP Data Aggregation Service</u>	22-1
23. <u>DEDICATED RING AND OPTICAL SERVICES</u>	23-1
23.1 <u>Dedicated SONET Ring</u>	23-1
24. <u>TARIFFED SERVICE COMPONENTS</u>	24-1
24.1 Integrated Optical Service Riders	24-1
24.1.1 General	24-1
24.1.2 Deployment and Availability	24-1
24.1.3 Connection to Other Services	24-1
24.1.4 Responsibility of the Customer	24-2
24.1.5 Conversions	24-3
24.1.6 Application of Rates	24-3
24.1.7 Term Plans	24-3
24.1.8 Expiration of Commitment Period	24-3
24.1.9 Termination Liability	24-4
24.1.10 Minimum Period	24-4
24.1.11 Rates and Charges	24-5

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>
25. <u>Discount Plans</u>	25-1
25.1 <u>Commitment Discount Plans</u>	25-1
25.1.1 Availability of a Commitment Discount Plan	25-1
25.1.2 Establishment of a Commitment Discount Plan	25-3
25.1.3 Plan Commitment Levels	25-8
25.1.4 Commitment Periods by Service Type	25-21
25.1.5 Changes to the Discount Percentage	25-22
25.1.6 Changes to the Base Rates/TPP Rates	25-22
25.1.7 Application of the Discount Percentage or TPP Rates	25-23
25.1.8 Commitment Periods	25-27
25.1.9 Termination Liability	25-40
25.1.10 Minimum Period	25-44
25.2 <u>Service Discount Plan</u>	25-45
25.2.1 General	25-45
25.2.2 Description	25-46
25.2.3 Termination Liability	25-47
25.2.4 Upgrades	25-49
25.2.5 Moves	25-49
25.2.6 Replacements	25-49
25.2.7 Changes	25-50
25.2.8 Cancellations	25-50
25.2.9 Additions of Service	25-51
25.2.10 Extension of Commitment Period	25-52
25.2.11 Rate Regulations	25-52
25.3 <u>National Discount Plan</u>	25-53
25.3.1 General	25-53
25.3.2 Subscription	25-60
25.3.3 Qualifying Services	25-62
25.3.4 Commitment Levels and Discount Tiers	25-66
25.3.5 Application of Discount	25-73
25.3.6 Special Access DS3 Channel Mileage Rates	25-85
25.3.7 Annual True-Up	25-85
25.3.8 Minimum Period	25-107
25.3.9 Changes to Basic Service and/or Base Rates	25-108
25.3.10 Sale of a Telephone Company Operating Territory	25-108
25.3.11 Addition of an ACNA(s) to an Existing NDP	25-110
25.3.12 Removal of an ACNA(s) as a Result of a Customer Sale	25-119
25.3.13 Termination Liability	25-122
25.3.14 Renewal and Termination of NDP	25-123

ACCESS SERVICE

CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

All Exchange Telephone Companies that have Access Tariffs on file under Part 69 of the Federal Communications Rules and Regulations with which FRONTIER TELEPHONE COMPANIES jointly provide Switched and Special Access Service.

REGISTERED SERVICE MARKS

NONE

REGISTERED TRADEMARKS

NONE

ACCESS SERVICE

EXPLANATION OF SYMBOLS

(C)	-	To signify changed regulation
(D)	-	To signify discontinued rate or regulation
(I)	-	To signify increase
(M)	-	To signify matter relocated without change
(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
(Z)	-	To signify a correction

EXPLANATION OF ABBREVIATIONS

ac	-	Alternating current	
ACNA	-	Access Customer Name Abbreviation	
AML	-	Actual Measured Loss	
ANI	-	Automatic Number Identification	
ANSI	-	American National Standard Institute	
AP	-	Program Audio	
ARC	-	Access Recovery Charge	(N)
AT&T-C	-	AT&T Communications	
ATSC	-	Advanced Television Systems Committee	
BAN	-	Billing Account Number	
BD	-	Business Day	
BHMC	-	Busy Hour Minutes of Capacity	
BSA	-	Basic Serving Arrangement	
BSE	-	Basic Service Element	
BVS	-	Billing Validation Service	
CAROT	-	Centralized Automatic Reporting on Trunks	
CCS	-	Common Channel Signaling	
CCSAS	-	Common Channel Signaling Access Service	
CFA	-	Connecting Facility Assignment	
CEC	-	Cellular Exchange Carrier	
CI	-	Channel Interface	
CLO	-	Control Link Oscillator	
CN	-	Charge Number	
CO	-	Central Office	
COCTS	-	Central Office Centrex	
Cont'd	-	Continued	
CPE	-	Customer Provided Equipment	
CSM	-	Customer Service Management Optional Feature	
CPN	-	Calling Party Number	
CSP	-	Carrier Selection Parameter	
Cts	-	Centrex	
DA	-	Directory Assistance	
dB	-	decibel	
dB _{rnC}	-	Decibel Reference Noise C-Message Weighting	
dB _{rnCO}	-	Decibel Reference Noise C-Message Weighted 0	
dB _v	-	Decibel(s) Relative to 1 volt (Reference)	
dB _{v1}	-	Decibel(s) Relating to 1 volt (Reference)	
dc	-	direct current	
DID	-	Direct Inward Dialing	
DNAL	-	Dedicated Network Access Link	

ACCESS SERVICE

EXPLANATION OF ABBREVIATIONS (Cont'd)

DSR	-	Dedicated SONET Ring
DTM	-	Direct TL1 Monitoring Optional Feature
DVTS	-	Direct Video Transport Service
DWDM	-	Dense Wave Division Multiplexing
EDD	-	Envelope Delay Distortion
ELEPL	-	Equal Level Echo Path Loss
EML	-	Expected Measured Loss
EPL	-	Echo Path Loss
ERL	-	Echo Return Loss
ESCON	-	Enterprise Systems CONnection
ESS	-	Electronic Switching System
ESSX	-	Electronic Switching System Exchange
f	-	frequency
F.C.C.	-	Federal Communications Commission
FICON	-	Fibre CONnection
FID	-	Field Identifier
FX	-	Foreign Exchange
GigE	-	Gigabit Ethernet
HC	-	High Capacity
Hi-Def	-	High Definition
Hz	-	Hertz
IC	-	Interstate Customer
ICB	-	Individual Case Basis
ICL	-	Inserted Connection Loss
IOF	-	Inter-Office Facility
IP	-	Interconnection Point
kbps	-	kilobits per second
kHz	-	kilohertz
LAN	-	Local Area Network
LATA	-	Local Access and Transport Area
LCC	-	Line Cost Charge
LES	-	LAN Extension Service
LIDB	-	Line Information Data Base
Ma	-	milliamperes
Mbps	-	Megabits per second
MHz	-	Megahertz
MMUC	-	Minimum Monthly Usage Charge
MRC	-	Monthly Recurring Charge
MRCCs	-	Maritime Radio Common Carriers
MSA	-	Metropolitan Statistical Area
MT	-	Metallic
MTS	-	Message Telecommunications Service(s)
MTSO	-	Mobile Telephone Switching Office
NDP	-	National Discount Plan
N-MSA	-	Non-qualifying MSA
NPA	-	Numbering Plan Area
NRC	-	Nonrecurring Charge
NSP	-	Non-Standard Premises
NTS	-	Non-Traffic Sensitive
NXX	-	Three Digit Central Office Code

ACCESS SERVICE

EXPLANATION OF ABBREVIATIONS (Cont'd)

OBSC	-	Out of Band Signaling Connection
OCF	-	Optical Channel Facility
OCF-G	-	Optical Channel Facility - Gigabit
OHF	-	Optical Hubbing Facility
OHI	-	Optical Hubbing Interface
OHS	-	Optical Hubbing Service
OTPL	-	Zero Transmission Level Point
OTS	-	Operator Transfer Service
PBX	-	Private Branch Exchange
PCM	-	Pulse Code Modulation
PI	-	Priority Installation
PLR	-	Private Line Ringdown
POT	-	Point of Termination
PR	-	Priority Restoration
RCCs	-	Radio Common Carriers
rms	-	root-mean-square
RPON	-	Related Purchase Order Number
RSM	-	Remote Switching Modules
RSS	-	Remote Switching Systems
SASG	-	Special Access Service Guarantee
SCVS	-	Serial Component Video Service
SLA	-	Service Level Agreement
SLC	-	Subscriber Line Charge
SMPTE	-	Society of Motion Picture and Television Engineers
SPOI	-	Signaling Point of Interface
SRL	-	Singing Return Loss
SS7	-	Signaling System 7
SSN	-	Switched Service Network
STP	-	Signal Transfer Point
SWC	-	Serving Wire Center
S56	-	Switched 56 Kilobit Service
TAS	-	Tandem Access Sectorization
TASA	-	Tandem Access Sectorization Area
TES	-	Telephone Exchange Service(s)
TG	-	Telegraph Grade
TL1	-	Transaction Language 1
TLP	-	Transmission Level Point
TSPS	-	Traffic Service Position System
TSP	-	Telecommunications Service Priority
TV	-	Television
TVOC	-	Telephone Company Video Operation Center
UPS	-	Uninterrupted Power Supply
USOC	-	Uniform Service Order Code
VG	-	Voice Grade
V & H	-	Vertical & Horizontal
WA	-	Wideband Analog
WATS	-	Wide Area Telecommunications Service(s)
WCN	-	With Calling Name
WD	-	Wideband Data
WOCN	-	Without Calling Name

ACCESS SERVICE

REFERENCE TO OTHER TARIFFS

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

The following tariff is referenced in this tariff and may be obtained from the National Exchange Carrier Association, 80 South Jefferson Road, Whippany, NJ 07981-1009 or in electronic format on the Internet at www.neca.org.

National Exchange Carrier Association, Inc.
Tariff F.C.C. No. 4

REFERENCE TO OTHER PUBLICATIONS

The following technical publications are referenced in this tariff and may be obtained from Telcordia Technologies, One Telcordia Drive, RRC 1B-180, Piscataway, NJ 08854-4156, (866)672-6997 or on the Internet at www.telcordia.com.

Technical Reference:

FR-64-CORE, Issue 3	Issued: April 2008
GR-20-CORE, Issue 3	Issued: May 2008
GR-54-CORE, Issue 1	Issued: December 1995
GR-63-CORE, Issue 3	Issued: March 2006
GR-253-CORE, Issue 4	Issued: December 2005
GR-334-CORE, Issue 1	Issued: July 1994
GR-337-CORE, Issue 1	Issued: December 1995
GR-338-CORE, Issue 1	Issued: December 1995
GR-342-CORE, Issue 1	Issued: December 1995
GR-394-CORE, Issue 8	Issued: November 2007
GR-436-CORE, Issue 1	Issued: June 1994
GR-499-CORE, Issue 3	Issued: September 2004
GR-905-CORE, Issue 11	Issued: December 2008
GR-954-CORE, Issue 4	Issued: August 2005
GR-1060-CORE, Issue 1	Issued: April 1994
GR-1083-CORE, Issue 5	Issued: September 2004
GR-1110-CORE, Issue 4	Issued: December 2000
GR-1244-CORE, Issue 3	Issued: May 2005
GR-1248-CORE, Issue 4	Issued: November 1998

ACCESS SERVICE

REFERENCE TO OTHER PUBLICATIONS (Cont'd)Technical Reference: (Cont'd)

GR-1312-CORE, Issue 3	Issued: April 1999
GR-1374-CORE, Issue 1	Issued: December 1994
GR-2918-CORE, Issue 6	Issued: January 2003
GR-2936-CORE, Issue 1	Issued: December 1997
GR-2979-CORE, Issue 5	Issued: March 2005
PUB 41004	Issued: October 1973
PUB 62310	Issued: September 1983
SR-3330, Issue 2	Issued: April 1997
SR-4274, Issue 1	Issued: April 1997
SR-INS-001532, Issue 1	Issued: July 1991
Video Distribution Technology	
SR-NPL-001434, Issue 1	Issued: January 1990
Cable TV Signal Distribution	
SR-NWT-001851, Issue 1	Issued: December 1990
SR-STIS-000320	Issued: August 1990
SR-TAP-000191, Issue 2	Issued: December 1998
ST-TEC-000053, Issue 1	Issued: August 1989
Telecommunications Transmission Engineering	
Volume 3 - Networks and Services (Chapters 6 and 7)	
TR-NPL-000157, Issue 1	Issued: April 1986
TR-NPL-000336, Issue 1	Issued: October 1987
TR-NPL-000339	Issued: October 1987
TR-NPL-000340	Issued: October 1987
TR-NWT-000335, Issue 3	Issued: May 1993
TR-NWT-000341, Issue 2	Issued: February 1993
TR-NWT-001112, Issue 1	Issued: June 1993
TR-TSV-000772, Issue 1	Issued: May 1991
TR-TSV-000773, Issue 1	Issued: June 1991
TR-TSV-001239, Issue 1	Issued: December 1993
TR-TSV-061370, Issue 1	Issued: May 1998
TR-TSY-000366, Issue 2	Issued: March 1988

ACCESS SERVICE

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

The following technical publications are referenced in this tariff and may be obtained from Telcordia Routing Administration, 8 Corporate Place PYA 3N-141, Piscataway, NJ 08854-4156, 1(866) 672-4156.

Technical Reference:

The Local Exchange Routing Guide (LERG), Issued: August 1, 2009, and as issued from time to time

The following publication, referenced in this tariff, may be obtained from ATM Forum, 2570 West El Camino Real, Suite 304, Mountain View CA 94040 or on the Internet at www.atmforum.com.

ATM Forum, ATM User Network Interface Specifications, Version 3.0
af-uni-0010.001
Issued: September 1993

ATM Forum, ATM User Network Interface Specifications, Version 3.1
af-uni-0010.002
Issued: September 1994

ATM Forum, Interim Inter-switch Signaling Protocol, Version 1.0
af-pnni-0026.000
Issued: December 1994

The following publications are referenced in this tariff and may be obtained from the Government Printing Office, Superintendent of Documents, Document Control Branch, 941 N. Capitol St., N.E., Washington, D.C. 20401.

Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook, National Communications System (NCS) H 3-1-2
Issued: December 2000

Telecommunication Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service User Manual, National Communications System (NCS) M 3-1-1
Issued: May 2000

ACCESS SERVICE

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

The following technical publication is referenced in this tariff and may be obtained from the National Exchange Carrier Association, Inc., 80 S. Jefferson Road, Whippany, NJ 07981-1009 or on the Internet at www.neca.org.

PUB AS No. 1, Issue II
Issued: May 1984

The following publications, referenced in this tariff, may be obtained from the International Telecommunications Union (ITU), Place des Nations, CH-1211, Geneva 20, Switzerland or on the Internet at www.itu.int.net.

ITU-T G.707/Y.1322	Issued: January 2007
ITU-T G.959.1	Issued: December 2003
ITU-T G.692	Issued: October 1998 and Amendment 1 dated January 2005
ITU-T H.320 series Standards for Audio Visual Communications over Networks	Issued: March 2004
	Narrowband Digital

ACCESS SERVICE

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

The following publications are referenced in this tariff and may be obtained from Alliance for Telecommunications Industry Solutions (ATIS), 1200 G Street, NW, Suite 500, Washington, DC 20005 or on the Internet at www.atis.org/obf.

Multiple Exchange Carrier Access Billing Guidelines (MECAB)
ATIS/OBF-MECAB 009, Issue 9 Issued: January 2007

Multiple Exchange Carrier Ordering and Design Guidelines (MECOD)
ATIS-0404120-0007, Issue 7 Issued: April 2009

The following publication, referenced in this tariff, may be obtained from National Fire Protection Association, 1 Battery March Park, Quincy, MA 02169-7471, or in electronic format on the Internet at www.nfpa.org.

National Electrical Code, NFPA 70 2008 Edition, Issued: August 2008

The following publication is referenced in this tariff and may be obtained from the United States Department of Labor, Publication Distribution, 200 Constitution Avenue, N.W., Washington, D.C. 20210 or on the Internet at www.osha.gov.

Occupational Safety and Health Act, Issued: December 1970 and as amended through January 2004

The following publications are referenced in this tariff and may be obtained from Collocated Interconnection Major Project Team Coordinator:

- 1500 MacCorkle Avenue Rm 222, Charleston, WV 25396

Information Pub. IP 72202, Issue 3	Issued: December 2008
Information Pub. IP 72013, Issue 6	Issued: April 2008
Cable Splicing Handbook	Issued: December 1991
Cable Placing Handbook	Issued: December 1991
Cable Maintenance Handbook	Issued: December 1991
General Information Tools & Safety Manual	Issued: December 1992
Building Owners and Managers Association International Standards (BOMA)	Issued: December 1992

ACCESS SERVICE

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

The following publications are referenced in this tariff and may be obtained from the American National Standards Institute (ANSI), 25 West 43rd Street, 4th Floor, New York, New York 10036, or on the Internet at www.ansi.org.

ANSI T1.101	Issued: 1994
ANSI T1.102-1993 (R2005)	Issued: 2005
ANSI T1.102.01-1996 (R2001)	Issued: 2001
ANSI T1.105.01-2000 (R2005)	Issued: 2005
ANSI T1.107-2002 (R2006)	Issued: 2006
ANSI T1.403-1999 (R2007)	Issued: 2007
ANSI T1.404-2002 (R2006)	Issued: 2006
ANSI T1.606-1990	Issued: 1990
ANSI T1.606, Addendum 1	Issued: 1991
ANSI T1.606a-1992	Issued: 1992
ANSI T1.606b-1993	Issued: 1993
ATIS T1.617-1991	Issued: 1992
ANSI INCITS 139-1987 (R2002)	Issued: 2002
ANSI INCITS 148-1988 (R2004)	Issued: 2004
ANSI INCITS 166-1989 (R2005)	Issued: 2005
ANSI INCITS 184-1993 (R2003)	Issued: 2003
ANSI INCITS 229-1994 (R2004)	Issued: 2004
ANSI INCITS 296-1997 (R2007)	Issued: 2007
ANSI INCITS 303-1998 (R2003)	Issued: 2003

The following publications are referenced in this tariff and may be obtained from Institute of Electrical and Electronics Engineers, Inc., IEEE Standards Association, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331, or in electronic format on the Internet at www.ieee.org.

IEEE C95.1-2005	Issued: 2005
IEEE 802.3-2005/Cor2/D2.0-2007	Issued: 2007
IEEE 802.3u-1995	Issued: 1995
IEEE 802.3z-1998	Issued: 1998
IEEE 802.1Q-2005/Cor1-2008	Issued: 2008
IEEE 802.3ae-2002	Issued: 2002

ACCESS SERVICE

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

The following publications are referenced in this tariff and may be obtained from the Society of Motion Picture and Television Engineers (SMPTE), 3 Barker Avenue, 5th Floor, White Plains, NY 10601, Telephone No. 914 761-1100, or on the Internet at www.smpte.org.

SMPTE 0259M-2008	Issued: 2008
SMPTE 0292M-2001	Issued: 2001
SMPTE 0310M-2004	Issued: 2004

The following publication, referenced in this tariff, may be obtained from the Frontier Carrier Services, 180 South Clinton Avenue, Rochester, NY 14646.

Technical Memorandum for Incidental InterLATA Call Management Signaling Service associated with the Verizon FCC Short Term Notice of Network Change dated March 2007 Issued: March 2007

The following publication is referenced in this tariff and may be obtained from the Internet Engineering Task Force (IETF) at IETF Secretariat, c/o Association Management Solutions, LLC (AMS), 48377 Fremont Blvd., Suite 117, Fremont, California 94538, or on the Internet at www.ietf.org.

STD 0001: Internet Official Protocol Standards, J Postel, Editor, Issued: May 2008.
RFC 2138, Remote Authentication Dial-In User Service (RADIUS); C Rigney, A. Rubens, W. Simpson, S. Willens, Issued: April 1997.

ACCESS SERVICE

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

The following publications referenced in this tariff may be obtained from IBM North America, 590 Madison Avenue, New York, NY 10022; 1-800-426-4968 or on the Internet at www.ibm.com/us. Note: ESCON® is a registered trademark of the International Business Machines (IBM) Corporation.

Coupling Facility Channel Physical Layer (Sixth Edition)	
SA23-0395-05	Issued: July 2008
Enterprise Systems Architecture/390 ESCON I/O Interface, Physical Layer (Seventh Edition)	
SA23-0394-06	Issued: July 2008
ESA/390 ESCON I/O Interface	
SA22-7202-02	Issued: June 2002
ESCON® Introduction	
GA23-0383-01	Issued: July 2002
S/390 Time Management and IBM 9037 Sysplex Timer	
SG24-2070-00	Issued: May 1999
Planning Fiber Optic Channel Links (Thirteenth Edition)	
GA23-0367-12	Issued: July 2009
OS/390 Parallel Sysplex Configuration Volume 2: Cookbook	
SG24-5638-00	Issued: August 2000

The following publications, referenced in this tariff, may be obtained from the Advanced Television Systems Committee (ATSC), 1750 K Street NW, Suite 1200, Washington, DC 20006 or on the Internet at www.atsc.org.

ATSC Standard A/53, Digital Television Standard	
Issued: January 2007	
ATSC Document A/54A (includes Corrigendum No. 1),	
Guide to the Use of ATSC Digital Television Standard	
Issued: December 2003, Corrigendum No. 1	Issued December 2006

The Collocation Space Summary, which is referenced in this tariff, may be obtained from the Telephone Company's Internet website at <http://carrier.frontiercorp.com/crtf/carrier/>.

The following publication referenced in this tariff may be obtained from Nortel Networks, Inc., 4001 East Chapel Hill, Research Triangle Park, Raleigh, NC 27709, (919)991-8679 or on the Internet at www.nortel.com.

Nortel Document No. Q214-1	
Issued: September 2000	