

Lida C. Tong
Director-Regulatory
& Governmental Affairs

RECEIVED
RECORDS MANAGEMENT



UT-990365
GTE Service
Corporation

SL

1800 41st Street, WA0101RA
P.O. Box 1003
Everett, WA 98201
425 261-5691
Fax: 425 261-5262

July 12, 1999

99 JUL 13 AM 8:00

STATE OF WASH.
UTIL. AND TRANSP.
COMMISSION

Ms. Carole J. Washburn, Executive Secretary
Washington Utilities and
Transportation Commission
P.O. Box 47250
Olympia, Washington 98504-7250

Dear Ms. Washburn:

Subject: **INTERCONNECTION AGREEMENT BETWEEN GTE
NORTHWEST INCORPORATED AND FOCAL
COMMUNICATIONS CORPORATION**

Enclosed for filing with the Commission, under Section 252(I) of the Telecommunications Act of 1996, is the Interconnection, Resale and Unbundling Agreement between GTE Northwest Incorporated (GTE) and Focal Communications Corporation (Focal). Focal wishes to adopt the arbitrated Interconnection Agreement between AT&T Communications of the Pacific Northwest (AT&T) that was approved in the state of Washington in Docket UT-960307. Enclosed are cover letters, executed by Focal and GTE which set forth the conditions that state the manner in which the arbitrated agreement will be applied to Focal.

GTE is not voluntarily entering the arbitrated agreement with Focal and does not waive any rights and remedies it has concerning its position as to the illegality or unreasonableness of the terms of the arbitrated agreement. Any modification to the underlying adopted agreement shall automatically apply to Focal. GTE is preserving its legal position in every respect as to the arbitrated agreement in the hands of Focal as well as in the hands of AT&T.

If you have any questions concerning this agreement, please contact Bonnie Sanders at 425/261-5464.

Very truly yours,

Bonnie Sanders

Jor
Lida C. Tong
Director - Regulatory & Governmental Affairs

BGS343W.doc
Enclosure

Ms. Carole J. Washburn

July 12, 1999

Subject: **INTERCONNECTION AGREEMENT BETWEEN
GTE NORTHWEST INCORPORATED AND
FOCAL COMMUNICATIONS CORPORATION**

c: John R. Barnicle
Chief Operations Officer
Focal Communications Corporation of Washington
200 North Lasalle Street
Chicago, IL 60601

Connie Nicholas
Assistant Vice President
Wholesale Markets-Interconnection



GTE Network
Services

HQE03B28
600 Hidden Ridge
P.O. Box 152092
Irving, TX 75038
972/718-4586
FAX 972/719-1523

June 16, 1999

John R. Barnicle
Chief Operations Officer
Focal Communications Corporation of Washington
200 North LaSalle Street
Chicago, IL 60601

Dear Mr. Barnicle:

We have received your letter stating that, under Section 252(i) of the Telecommunications Act of 1996, you wish to adopt the terms of the arbitrated Interconnection Agreement between AT&T Communications of the Pacific Northwest, Inc. and GTE that was approved by the Commission as an effective agreement in the State of Washington in Docket No. UT-960307 (Terms)¹. I understand you have a copy of the Terms.

Please be advised that our position regarding the adoption of the Terms is as follows.

On January 25, 1999, the Supreme Court of the United States ("Court") issued its decision on the appeals of the Eighth Circuit's decision in *Iowa Utilities Board*. Specifically, the Supreme Court vacated Rule 51.319 of the FCC's First Report and Order, FCC 96-325, 61 Fed. Reg. 45476 (1996) and modified several of the FCC's and the Eighth Circuit's rulings regarding unbundled network elements and pricing requirements under the Act. *AT&T Corp. v. Iowa Utilities Board*, No. 97-826, 1999 U.S. LEXIS 903 (1999).

Three aspects of the Court's decision are worth noting. First, the Court upheld on statutory grounds the FCC's jurisdiction to establish rules implementing the pricing provisions of the Act. The Court, though, did not address the substantive validity of the FCC's pricing rules. This issue will be decided by the Eighth Circuit on remand.

¹ *These "agreements" are not agreements in the generally accepted understanding of that term. GTE was required to accept these agreements, which were required to reflect the then-effective FCC rules.

Second, the Court held that the FCC, in requiring ILECs to make available all UNEs, had failed to implement section 251(d)(2) of the Act, which requires the FCC to apply a "necessary" or "impair" standard in determining the network elements ILECs must unbundle. The Court ruled that the FCC had improperly failed to consider the availability of alternatives outside the ILEC's network and had improperly assumed that a mere increase in cost or decrease in quality would suffice to require that the ILEC provide the UNE. The Court therefore vacated in its entirety the FCC rule setting forth the UNEs that the ILEC is to provide. The FCC must now promulgate new UNE rules that comply with the Act. As a result, any provisions in the Terms requiring GTE to provide UNEs are nullified.

Third, the Court upheld the FCC rule forbidding ILECs from separating elements that are already combined (Rule 315(b)), but explained that its remand of Rule 319 "may render the incumbents' concern on [sham unbundling] academic." In other words, the Court recognized that ILEC concerns over UNE platforms could be mooted if ILECs are not required to provide all network elements: "If the FCC on remand makes fewer network elements unconditionally available through the unbundling requirement, an entrant will no longer be able to lease every component of the network."

The Terms which Focal Communications Corporation of Washington, "Focal" seeks to adopt does *not* reflect the Court's decision, and any provision in the Terms that is inconsistent with the decision is nullified.

GTE anticipates that after the FCC issues new final rules on UNEs, this matter may be resolved. In the interim, GTE would prefer not to engage in the arduous task of reforming agreements to properly reflect the current status of the law and then to repeat the same process later after the new FCC rules are in place. Without waiving any rights, GTE proposes that the parties agree to hold off amending (or incorporating the impact of the decision into) the Terms and let the section 252(i) adoption proceed by maintaining the status quo until final new FCC rules are implemented (the "New Rules"), subject to the following package of interdependent terms:

1. GTE will continue to provide all UNEs called for under the Terms until the FCC issues the New Rules even though it is not legally obligated to do so.
2. Likewise, Focal agrees not to seek UNE "platforms," or "already bundled" combinations of UNEs.
3. If the FCC does not issue New Rules prior to the expiration of the initial term of the Terms, GTE will agree to extend any new interconnection arrangement between the parties to the terms of this proposal until the FCC issues its New Rules.

4. By making this proposal (and by agreeing to any settlement or contract modifications that reflect this proposal), GTE does not waive any of its rights, including its rights to seek recovery of its actual costs and a sufficient, explicit universal service fund. Nor does GTE waive its position that, under the Court's decision, it is not required to provide UNEs unconditionally. Moreover, GTE does not agree that the UNE rates set forth in any agreement are just and reasonable and in accordance with the requirements of sections 251 and 252 of Title 47 of the United States Code.
5. The provisions of the contract that might be interpreted to require reciprocal compensation or payment as local traffic from GTE to the CLEC for the delivery of traffic to the Internet are not available for adoption and are not a part of the 252(i) agreement pursuant to FCC Rule 809 and paragraphs 1317 and 1318 of the First Report and Order.

GTE believes that the first four conditions above are adequately explained by the first part of this letter. The reason for the last condition is the FCC gave the ILECs the ability to except 252(i) adoptions in those instances where the cost of providing the service to the requesting carrier is higher than that incurred to serve the initial carrier or there is a technical incompatibility issue. The issue of reciprocal compensation for traffic destined for the Internet falls within FCC Rule 809. GTE never intended for Internet traffic passing through a CLEC to be included within the definition of local traffic and the corresponding obligation of reciprocal compensation. Despite the foregoing, some forums have interpreted the issue to require reciprocal compensation to be paid. This produces the situation where the cost of providing the service is not cost based under Rule 809 or paragraph 1318 of the First report and Order. As a result, that portion of the contract pertaining to reciprocal compensation is not available under this 252(i) adoption. In its place are provisions that excluded ISP Traffic from reciprocal compensation. Specifically, the definition of "Local Traffic" includes this provision: "Local Traffic excludes information service provider ("ISP") traffic (i.e., Internet, 900 – 976, etc)"

In sum, GTE's proposal as described above would maintain the status quo until the legal landscape is settled.

Focal's adoption of the AT&T Communications of the Pacific Northwest, Inc. arbitrated Terms shall become effective upon filing of this letter with the Washington Utilities and Transportation Commission and remain in effect no longer than the date the AT&T Communications of the Pacific Northwest, Inc. arbitrated Terms are terminated. The AT&T Communications of the Pacific Northwest, Inc. arbitrated agreement is currently scheduled to expire on September 25, 2000.

John R. Barnicle
June 16, 1999
Page 4

As these Terms are being adopted by you pursuant to your statutory rights under section 252(i), GTE does not provide the Terms to you as either a voluntary or negotiated agreement. The filing and performance by GTE of the Terms does not in any way constitute a waiver by GTE of its position as to the illegality or unreasonableness of the Terms or a portion thereof, nor does it constitute a waiver by GTE of all rights and remedies it may have to seek review of the Terms, or to petition the Commission, other administrative body, or court for reconsideration or reversal of any determination made by the Commission pursuant to arbitration in Docket No. UT-960307, or to seek review in any way of any provisions included in these Terms as a result of Focal's 252(i) election.

Nothing herein shall be construed as or is intended to be a concession or admission by either GTE or Focal that any contractual provision required by the Commission in Docket No. UT-960307 (the AT&T Communications of the Pacific Northwest, Inc. arbitration) or any provision in the Terms complies with the rights and duties imposed by the Telecommunications Act of 1996, the decision of the FCC and the Commissions, the decisions of the courts, or other law, and both GTE and Focal expressly reserve their full right to assert and pursue claims arising from or related to the Terms. GTE contends that certain provisions of the Terms may be void or unenforceable as a result of the Court's decision of January 25, 1999 and the remand of the pricing rules to the United States Eighth Circuit Court of Appeals.

Should Focal attempt to apply such conflicting provisions, GTE reserves its rights to seek appropriate legal and/or equitable relief. Should any provision of the Terms be modified, such modification would likewise automatically apply to this 252(i) adoption.

Please indicate by your countersignature on this letter your understanding of and commitment to the following three points:

- (A) Focal adopts the Terms of the AT&T Communications of the Pacific Northwest, Inc. arbitrated agreement for interconnection with GTE and in applying the Terms, agrees that Focal be substituted in place of AT&T Communications of the Pacific Northwest, Inc. in the Terms wherever appropriate.
- (B) Focal requests that notice to Focal as may be required under the Terms shall be provided as follows:


To : Focal Communications Corporation of Washington
Attention: Director, Regulatory Affairs
200 North LaSalle Street
Chicago, IL 60601
Telephone number: 312-895-8400
FAX number: 312-895-8403

John R. Barnicle
June 16, 1999
Page 5

- (C) Focal represents and warrants that it is a certified provider of local dialtone service in the State of Washington, and that its adoption of the Terms will cover services in the State of Washington only.

Sincerely,

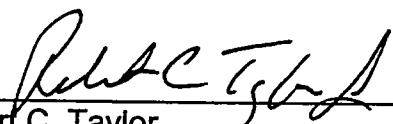
GTE Northwest Incorporated



Connie Nicholas
Assistant Vice President
Wholesale Markets-Interconnection

Reviewed and countersigned as to points A, B, and C only:

Focal Communications Corporation of Washington



Robert C. Taylor
President and Chief Executive Officer

c: D. Robinson - HQE03B73 - Irving, TX



Focal Communications Corporation
200 North LaSalle Street
Chicago, Illinois 60601

312-895-8400
312-895-8403 fax

VIA OVERNIGHT

June 18, 1999

Connie Nicholas, Assistant Vice President
Wholesale Markets-Interconnection
GTE Network Services
HQE03B28
600 Hidden Ridge
PO Box 152092
Irving TX 75038

RE: Washington Interconnection Opt In

Dear Ms. Nicholas:

Focal is in receipt of your June 16, 1999 response to Focal's request to exercise our right, pursuant to Section 252(i) of the Telecommunications Act of 1996, to "opt-in" to the terms of the Interconnection Agreement between AT&T Communications of the Pacific Northwest and GTE in Washington.

As set forth in your letter, GTE is seeking to restrict Focal's right to opt-in to the AT&T agreement, by making the opt-in ultimately subject to the following five conditions:

1. GTE will continue to provide all UNEs called for under the Terms until the FCC issues the New Rules even though it is not legally obligated to do so.
2. Likewise, Focal agrees not to seek UNE "platforms," or "already bundled" combinations of UNEs.
3. If the FCC does not issue New Rules prior to the expiration of the initial term of the Terms, GTE will agree to extend any new interconnection arrangement between the parties to the terms of this proposal until the FCC issues its New Rules.
4. By making this proposal (and by agreeing to any settlement or contract modifications that reflect this proposal), GTE does not waive any of its rights, including its rights to seek recovery of its actual costs and a sufficient, explicit universal service fund. Nor does GTE waive its position that, under the Court's decision, it is not required to provide UNEs unconditionally. Moreover, GTE does not agree that the UNE rates set forth in any agreement are just and reasonable and in accordance with the requirements of sections 251 and 252 of Title 47 of the United States Code.
5. The provisions of the contract that might be interpreted to require reciprocal compensation or payment as local traffic from GTE to the CLEC for the delivery of traffic to the Internet are not available for adoption and are not a part of the 252(i) agreement pursuant to FCC Rule 809 and paragraphs 1317 and 1318 of the First Report and Order.

Needless to say, it is Focal's position that it has a statutory right to opt-in another approved agreement *in toto*. Focal does recognize that certain judicial and regulatory decisions have been handed down since the underlying agreement was first approved by the Washington Commission. In addition, Focal agrees with the general approach advocated in your letter that it does not make sense to engage in the "arduous task" to separately amend the agreement at this time for Focal and GTE only. Instead, the appropriate mechanism for any necessary amendment to the agreement would be to look to the agreement itself, once, as you suggest, "the legal landscape is settled."

Finally, with respect to GTE's point #5 above, Focal strongly disagrees that any portion of an approved interconnection agreement could be stripped out and made unavailable for opt-in pursuant to §252.

Nevertheless, Focal understands that GTE's June 16 letter is merely stating GTE's position on the 5 points above, while acknowledging Focal's right to adopt the AT&T interconnection agreement for Washington, subject only to the following three conditions:

- (A) Focal adopts the Terms of the AT&T Communications of the Pacific Northwest, Inc. arbitrated agreement for interconnection with GTE and in applying the Terms, agrees that Focal be substituted in place of AT&T Communications of the Pacific Northwest, Inc. in the Terms wherever appropriate
- (B) Focal requests that notice to Focal as may be required under the Terms shall be provided as follows:

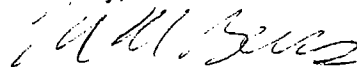
To: Focal Communications Corporation of Washington
Attention: Director- Regulatory Affairs
200 N. LaSalle Street, Suite 1100
Chicago, IL 60601
Telephone number: 312/895-8400
FAX number: 312/895-8403

- (C) Focal represents and warrants that it is a certified provider of local dialtone service in the State of Washington, and that its adoption of the Terms will cover services in the State of Washington only.

Without waiving any of its rights, and with the understanding that Focal is agreeing only to the three conditions (A), (B) and (C) above and not the five points set forth earlier, Focal has countersigned 2 copies of GTE's June 16, 1999 letter as requested. Please return one copy executed by GTE to the above address. In addition, we would request that a copy of this letter be filed with the June 16, 1999 letter with the Washington Commission.

Please feel free to call me with any questions on this matter at (312) 895-8457.

Sincerely,


Matthew H. Berns

INTERCONNECTION, RESALE
AND UNBUNDLING

AGREEMENT

between

GTE NORTHWEST INCORPORATED

and

FOCAL COMMUNICATIONS CORPORATION OF WASHINGTON

RECEIVED
RECORDS MANAGEMENT
99 JUL 13 AM 8:00
STATE OF WASH.
UTIL. AND TRANSP.
COMMISSION

The filing of this arbitrated Agreement with the Washington Utilities and Transportation Commission in accordance with the Arbitrator's Report dated December 11, 1996, the Arbitrator's Supplemental Report dated February 4, 1997, the Decision Maker's Resolution of Contract Language Disputes dated June 2, 1997 and the Commission Order Approving Interconnection Agreement effective August 25, 1997 (collectively, the "Order") with respect to Focal Communications Corporation of Washington's Petition for Arbitration pursuant to Section 252(b) of the Telecommunications Act of 1996 to establish an interconnection agreement between Focal Communications Corporation of Washington and GTE Northwest Incorporated, Docket No. UT-960307, does not in any way constitute a waiver by either Focal Communications of the Pacific Northwest, Inc. or GTE Northwest Incorporated, of any right which any such Party may have to appeal to a competent court of law, or to petition the Washington Utilities and Transportation Commission for reconsideration of any determination contained in the Order, or any provision included in this Agreement pursuant to the Order.

In this document the Parties attempt to comply with the Order which directs the Parties to reduce to contractual language the substantive provisions and directives of the Order. Nothing contained herein shall be construed or is intended to be a concession or admission by either Party that any such provision of the Order or the language herein complies with the duties imposed by the Telecommunications Act of 1996, the decisions of the FCC and the Washington Utilities and Transportation Commission, or other law, and each Party thus expressly reserves its full right to assert and pursue claims that the Order does not comport with applicable law.

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
PREFACE.....	1
AGREEMENT.....	1
RECITALS.....	1
SCOPE, INTENT AND DEFINITIONS.....	2
GENERAL TERMS AND CONDITIONS.....	3
1. PROVISION OF LOCAL SERVICE, UNBUNDLED NETWORK ELEMENTS AND INTERCONNECTION	3
2. TERM OF AGREEMENT.....	3
3. TERMINATION OF AGREEMENT; TRANSITIONAL SUPPORT.....	4
4. GOOD FAITH PERFORMANCE.....	5
5. OPTION TO OBTAIN LOCAL SERVICES OR NETWORK ELEMENTS UNDER OTHER AGREEMENTS	
6. RESPONSIBILITY OF EACH PARTY.....	5
7. GOVERNMENTAL COMPLIANCE.....	6
8. RESPONSIBILITY FOR ENVIRONMENTAL CONTAMINATION.....	6
9. REGULATORY MATTERS.....	9
10. LIABILITY AND INDEMNITY.....	10
11. SERVICE PARITY AND STANDARDS.....	12
12. CUSTOMER CREDIT HISTORY.....	12
13. FORCE MAJEURE.....	13
14. CERTAIN STATE AND LOCAL TAXES.....	14
15. ALTERNATIVE DISPUTE RESOLUTION.....	14
16. NOTICES.....	15
17. CONFIDENTIALITY AND PROPRIETARY INFORMATION.....	16
18. BRANDING.....	18
19. DIRECTORY LISTINGS AND DIRECTORY DISTRIBUTION.....	19

20. DIRECTORY ASSISTANCE LISTING INFORMATION	22
21. BUSY LINE VERIFICATION AND BUSY LINE VERIFICATION INTERRUPT	22
22. NUMBER ASSIGNMENT.....	23
23. MISCELLANEOUS.....	23
PART I LOCAL SERVICES RESALE.....	28
24. TELECOMMUNICATIONS SERVICES PROVIDED FOR RESALE.....	28
25. GENERAL TERMS AND CONDITIONS FOR RESALE	28
26. REQUIREMENTS FOR SPECIFIC SERVICES.....	30
27. ADVANCED INTELLIGENT NETWORK	32
28. ROUTING TO DIRECTORY ASSISTANCE, OPERATOR AND REPAIR SERVICES	32
29. SERVICE SUPPORT FUNCTIONS.....	35
30. PAY PHONE LINES AND PAY PHONE SERVICES.....	40
PART II: UNBUNDLED NETWORK ELEMENTS	43
31. INTRODUCTION.....	43
32. UNBUNDLED NETWORK ELEMENTS	43
PART III: ANCILLARY FUNCTIONS	46
33. INTRODUCTION.....	46
34. GTE PROVISION OF ANCILLARY FUNCTIONS.....	46
35. STANDARDS FOR ANCILLARY FUNCTIONS	46
PART IV: INTERCONNECTION PURSUANT TO SECTION 251(C)(2)	48
36. SCOPE	48
37. INTERCONNECTION POINTS AND METHODS.....	48
38. TRANSMISSION AND ROUTING OF TELEPHONE EXCHANGE SERVICE TRAFFIC PURSUANT TO SECTION 251(C)(2)	54
39. TRANSMISSION AND ROUTING OF EXCHANGE ACCESS TRAFFIC.....	57
40. TRANSPORT AND TERMINATION OF INFORMATION SERVICES TRAFFIC	57
41. INSTALLATION, MAINTENANCE, TESTING AND REPAIR.....	58

ATTACHMENTS

Attachment 1	Alternative Dispute Resolution
Attachment 2	Services Description: Unbundled Network Elements ("UNE")
Attachment 3	Service Description: Ancillary Functions
Attachment 4	Provisioning and Ordering - UNE
Attachment 5	Maintenance for Local Services Resale and UNE
Attachment 6	Local Services Resale, UNE and Interconnection Billing and Recording
Attachment 7	Provision of Customer Usage Data
Attachment 8	Local Number Portability
Attachment 9	Network Security
Attachment 10	Acronyms
Attachment 11	Definitions
Attachment 12	Service Quality Standards and Processes
Attachment 13	Electronic Interface for Operations Support Systems
Attachment 14	Pricing
Attachment 15	Reciprocal Compensation For Call Termination Agreement

PREFACE

AGREEMENT

This Agreement is entered into as of the ____ day of _____, 1997, by and between Focal Communications Corporation of Washington, a Washington Corporation having an office at 200 N. LaSalle Street, Suite 1100, Chicago, Illinois 60601 in its capacity as a certified provider of local dial-tone service ("Focal"), and GTE Northwest Incorporated, a Washington Corporation, having an office for purposes of this Agreement at 600 Hidden Ridge Drive, Irving, Texas 75038 ("GTE"), in its capacity as an incumbent local exchange carrier. This Agreement covers services only in the state of Washington (the "State").

RECITALS

WHEREAS, The Telecommunications Act of 1996 (the "Act") was signed into law on February 8, 1996; and

WHEREAS, the Act places certain duties and obligations upon, and grants certain rights to, Telecommunications Carriers, with respect to the interconnection of their networks, resale of their telecommunications services, access to their poles, ducts, conduits and rights of way and, in certain cases, the offering of certain unbundled network elements and physical collocation of equipment in Local Exchange Carrier premises, and

WHEREAS, GTE is an Incumbent Local Exchange Carrier; and

WHEREAS, Focal is a Telecommunications Carrier and has requested that GTE negotiate an agreement with Focal for the provision of Network Elements, Local Services for resale, collocation and access to poles, ducts, conduits and rights of way and the reciprocal provision of interconnection services pursuant to the Act and in conformance with GTE's and Focal's duties under the Act; and

WHEREAS, interconnection between competing Local Exchange Carriers (LECs) is necessary and desirable for the mutual exchange and termination of traffic originating on each LEC's network and the Parties desire to exchange such traffic and related signaling in a technically and economically efficient manner at defined and mutually agreed upon points of interconnection.

SCOPE, INTENT AND DEFINITIONS

This Agreement governs the purchase by Focal of certain telecommunications services provided by GTE in its service areas for resale by Focal, the purchase by Focal of certain unbundled network elements from GTE, the terms and conditions of the collocation of certain equipment of Focal in the premises of GTE, the provision by GTE of access to its poles, conduits and rights of way and the reciprocal interconnection of each Party's local facilities for the exchange of traffic.

The Parties agree that their entry into this Agreement is without prejudice to any positions they may have taken previously, or may take in the future, in any legislative, regulatory, judicial or other public forum addressing any matters, including matters related to the same types of arrangements covered in this Agreement.

For purposes of this Agreement, certain terms have been defined in Attachment 11 and elsewhere in this Agreement to encompass meanings that may differ from the normal connotation of the defined word. A defined word intended to convey its special meaning is capitalized when used. Unless the context clearly indicates otherwise, any term defined or used in the singular shall include the plural. The words "shall" and "will" are used interchangeably throughout this Agreement and the use of either connotes a mandatory requirement. The use of one or the other shall not mean a different degree of right or obligation for either Party. Other terms that are capitalized, and not defined in this Agreement, shall have the meaning given them in the Act. For convenience of reference only, Attachment 10 provides a list of acronyms used throughout this Agreement.

GENERAL TERMS AND CONDITIONS

1. Provision of Local Service, Unbundled Network Elements and Interconnection

This Agreement, which consists of these General Terms and Conditions and Attachments 1-15 and their accompanying Appendices, sets forth the terms, conditions and prices under which GTE agrees to provide (a) telecommunications services for resale (hereinafter referred to as "Local Services") and (b) certain unbundled Network Elements, Ancillary Functions and additional features to Focal or combinations of such Network Elements ("Combinations"), for purposes of offering telecommunications services of any kind, including, but not limited to, local exchange services, intrastate toll services, and intrastate and interstate exchange access services and (c) access to GTE's poles, conduits and rights of way. This Agreement also sets forth the terms and conditions for the interconnection of Focal's local network to GTE's local network ("Interconnection Services") and the reciprocal compensation to be paid by each Party to the other for the transport and termination of Local Traffic of the other Party. The Network Elements, Combinations or Local Services provided pursuant to this Agreement may be connected to other Network Elements, Combinations or Local Services provided by GTE or to any Network Elements, Combinations or Local Services provided by Focal itself or by any other vendor. Subject to the requirements of this Agreement, Focal may, at any time add or delete the Local Services, or Network Elements or Combinations purchased hereunder.

2. Term of Agreement

This Agreement shall become effective in accordance with Section 23.8 (the "Effective Date"), and shall remain effective for a period of three (3) years. This Agreement shall continue in effect for consecutive one (1) year terms thereafter unless either Party gives the other Party at least ninety (90) calendar days written notice of termination, which termination shall be effective at the end of the initial term.

3. **Termination of Agreement; Transitional Support**

- 3.1 Subject to any applicable restrictions and requirements contained elsewhere in this Agreement, Focal may elect at any time to terminate this entire Agreement at Focal's sole discretion, upon ninety (90) days prior written notice to GTE. Unless otherwise provided in this Agreement, in such case, Focal's liability shall be limited to payment of the amounts due for Local Services, Network Elements, Combinations and Interconnection Services provided up to and including the date of termination. The Parties recognize that provision of uninterrupted service to customers is vital and services must be continued without interruption. Upon the termination or expiration of this Agreement, Focal may itself provide or retain another vendor to provide comparable Local Services, Network Elements, or Combinations. GTE agrees to cooperate in an orderly and efficient transition to Focal or another vendor such that the level and quality of the Local Services, Network Elements and Combinations are not degraded and to exercise reasonable efforts to assist in an orderly and efficient transition.
- 3.2 Focal may terminate any Local Service(s), Network Element(s) or Combination(s) provided under this Agreement upon thirty (30) days written notice to GTE, unless a different notice period or different conditions are specified for termination of such Local Service(s), Network Element(s) or Combination(s) in this Agreement, in which event such specific period and conditions shall apply.
- 3.3 GTE will not discontinue any unbundled Network Element, Ancillary Function or Combination thereof during the term of this Agreement without Focal's written consent which consent shall not be unreasonably withheld, except (1) to the extent required by network changes or upgrades, in which event GTE will comply with the network disclosure requirements stated in the Act and the FCC's implementing regulations; or (2) if required by a final order of the Court, the FCC or the Commission as a result of remand or appeal of the FCC's order In the Matter of Implementation of Local Competition Provisions of the Telecommunications Act of 1996, Docket 96-98. In the event such a final order allows but does not require discontinuance, GTE shall make a proposal for Focal's approval, and if the Parties are unable to agree, either Party may submit the matter to the Dispute resolution procedures described in Attachment 1. GTE will not discontinue any Local Service or Combination of Local Services without providing 45 days advance written notice to Focal, provided however, that if such services are discontinued with less than 45 days notice to the regulatory authority, GTE will notify Focal at the same time it determines to discontinue the service. If GTE grandfathers a Local Service or combination of Local Services, GTE shall grandfather the service for all Focal resale customers who subscribe to the service as of the date of discontinuance.

- 3.4 Either Party may terminate this Agreement at any time by giving written notice in writing to the other Party in the event the other Party files a petition for bankruptcy, is declared bankrupt, is insolvent, makes an assignment for the benefit of creditors, or goes into liquidation or receivership. In addition, either Party may terminate this Agreement in the event of a Party's refusal or failure to pay all or any portion of any amount required to be paid to the other Party as and when due; provided however that the Party allegedly due payment (1) notifies the other Party of the amounts due, (2) utilizes the ADR process set forth in Attachment 1, (3) obtains a favorable final ruling in that process and (4) does not receive payment within thirty (30) calendar days of the final ruling. There shall be no other reason for the unilateral termination of this Agreement.

4. **Good Faith Performance**

In the performance of their obligations under this Agreement, the Parties shall act in accordance with the good faith requirements of the Act. In situations in which notice, consent, approval or similar action by a Party is permitted or required by any provision of this Agreement, (including, without limitation, the obligation of the Parties to further negotiate the resolution of new or open issues under this Agreement), such action shall not be unreasonably delayed, withheld or conditioned.

5. **Section 252(i) Election**

GTE shall allow Focal to elect terms other than those set forth in this Agreement to the extent required by Section 252 of the Act, final regulations thereunder and relevant court decisions.

6. **Responsibility of Each Party**

Each Party is an independent contractor, and has and hereby retains the right to exercise full control of and supervision over its own performance of its obligations under this Agreement and retains full control over the employment, direction, compensation and discharge of all employees assisting in the performance of such obligations. Each Party will be solely responsible for all matters relating to payment of such employees, including compliance with social security taxes, withholding taxes and all other regulations governing such matters. Subject to the limitations on liability contained in this Agreement and except as otherwise provided in this Agreement, each Party shall be responsible for (i) its own acts and performance of all obligations imposed by Applicable Law in connection with its activities, legal status and property, real or personal and, (ii) the acts of its own affiliates, employees,

agents and contractors during the performance of that Party's obligations hereunder.

7. **Governmental Compliance**

Focal and GTE each shall comply with all Applicable Law that relates to i) its obligations under or activities in connection with this Agreement; or ii) its activities undertaken at, in connection with or relating to Work Locations. Focal and GTE each agree to indemnify, defend (at the other Party's request) and save harmless the other, each of its officers, directors and employees from and against any losses, damages, claims, demands, suits, liabilities, fines, penalties and expenses (including reasonable attorneys' fees) that arise out of or result from its failure or the failure of its contractors or agents to so comply. Each Party will be solely responsible for obtaining from governmental authorities, building owners, other carriers, and any other persons or entities, all rights and privileges which are necessary for such Party to perform its obligations under this Agreement.

8. **Responsibility For Environmental Contamination**

8.1 Focal shall in no event be liable to GTE for any costs whatsoever resulting from the presence of any Environmental Hazard that Focal did not introduce to the affected Work Location or the Release of any Environmental Hazard that Focal did not cause at the affected Work Location. GTE shall indemnify, defend (at Focal's request) and hold harmless Focal, each of its officers, directors and employees from and against any losses, damages, claims, demands, suits, liabilities, fines, penalties and expenses (including reasonable attorneys' fees) that arise out of or result from (i) any Environmental Hazard that GTE, its contractors or agents introduce to the Work Locations or (ii) any Environmental Hazard that GTE, its contractors or agents Releases at the Work Locations.

GTE shall in no event be liable to Focal for any costs whatsoever resulting from the presence of any Environmental Hazard that GTE did not introduce to the affected Work Location or the Release of any Environmental Hazard that GTE did not cause at the affected Work Location. Focal shall indemnify, defend (at GTE's request) and hold harmless GTE, each of its officers, directors and employees from and against any losses, damages, claims, demands, suits, liabilities, fines, penalties and expenses (including reasonable attorney's fees) that arise out of or result from (i) any Environmental Hazard that Focal, its contractors or agents introduce to the Work Locations or (ii) any Environmental Hazard that Focal, its contractor or agents Release at the Work Locations.

8.2 GTE and Focal agree to comply with applicable federal, state and local environmental and safety laws and regulations including U.S. Environmental

Protection Agency (EPA) regulations issued under the Clean Air Act, Clean Water Act, Resource Conservation and Recovery Act, Comprehensive Environmental Response, Compensation and Liability Act, Superfund Amendments and Reauthorization Act and the Toxic Substances Control Act and OSHA regulations issued under the Occupational Safety and Health Act of 1970 applicable to their performance under this Agreement. Each Party has the responsibility to notify the other if compliance inspections occur, and/or citations are issued, at Work Locations that impact any aspect of performance under this Agreement or involve potential employee exposure.

- 8.3 GTE shall provide prompt reasonable notice to Focal of known and discovered physical hazards or hazardous chemicals at any portion of an affected Work Location which Focal uses, and Focal shall provide prompt reasonable notice to GTE of known and discovered physical hazards or hazardous chemicals at any portion of an affected Work Location which Focal uses. This includes Material Safety Data Sheets (MSDSs), when necessary, for materials existing at, or brought on site to, the affected Work Location by the party with the obligation to notify the other. Each Party is required to provide specific notice for imminent danger conditions which could include, but is not limited to, a defective utility pole or significant petroleum contamination in a manhole.
- 8.4 Focal and GTE will make available to each other their respective internal environmental control or safety procedures for review in planning work at a GTE Work Location. These practices/procedures will represent the regular work practices required to be followed by the employees and contractors for safety and environmental protection. Focal will follow its practices unless for a specific Work Location or emergency procedure, GTE's practice provides a greater degree of safety or environmental control.
- 8.5 Any materials brought to, stored at, or otherwise remaining at a Work Location belong to the party which brought the materials to, is storing the materials at, or is otherwise causing the materials to remain at the Work Location. Both parties have a duty to cooperate with each other in introducing new hazardous materials or other new environmental hazards at a Work Location to minimize adverse impacts on safety. Each party must demonstrate adequate emergency response capabilities for materials it uses, stores, or causes to remain at the other party's Work Location.
- 8.6 Focal agrees to promptly notify GTE of any third-party contamination it discovers at a GTE affected Work Location. Notification obligations to regulatory authorities shall be the responsibility of GTE to evaluate and act upon, unless Focal is required by applicable law to directly report.

- 8.7 Focal agrees to obtain and use its own environmental permits, if necessary for its performance under this Agreement. If GTE's permit or EPA identification number must be used, Focal must comply with applicable GTE environmental procedures, including environmental "best management practices (BMP)" and/or selection of disposition vendors and disposal sites to the extent provided by GTE. In the event that Focal must use GTE's vendors for waste disposal, GTE assumes all liability for such materials, and GTE agrees to indemnify Focal for any and all claims that may arise from such waste disposal.
- 8.8 Focal visitors must comply with GTE security, fire safety, safety, environmental and building practices/codes including equivalent employee training when working in GTE Work Locations, to the extent provided by GTE. GTE will, to the extent possible, supply such practices/codes to Focal prior to Focal's first entry into the Work Location.
- 8.9 GTE and Focal shall coordinate plans or information required to be submitted to government agencies, such as emergency response plans and community reporting if applicable to their performance under this Agreement. If fees are associated with any required filing, GTE and Focal will develop a cost sharing procedure. GTE and Focal will determine for each Work Location which party has the lead responsibility for such filings and coordination.
- 8.10 Activities impacting safety or the environment of a Right of Way must be harmonized with the specific agreement and the relationship between GTE and the private land owner. This may include limitations on equipment access due to environmental conditions (e.g., wetland area with equipment restrictions).
- 8.11 For the purposes of this Section 8 only, the following terms have the meanings set forth in this subsection 8.11:
- hazardous chemical: Means any chemical which is a health hazard or physical hazard as defined in the U.S. Occupational Safety and Health (OSHA) hazard communication standard (29 CFR 1910.1200).
- third party contamination: Environmental pollution that is not generated by the LEC or CLEC but results from off-site activities impacting an affected Work Location.
- 8.12 **Spill and Release Notifications**
- GTE and Focal shall promptly notify the other of any spill or release of a Regulated Material at the facility. GTE's obligation under this Section is limited to those spills or releases likely to impact the portion of the facility used by Focal, or any portion of the facility where Focal personnel are reasonably expected to be present. Focal shall be responsible for

reporting any spill or release of a Regulated Material occurring as part of or in connection with its operations that must be reported to any regulatory authority. Focal will consult with GTE prior to making such report, unless the time required for prior consultation would preclude Focal from complying with the applicable reporting requirement.

8.13 **Management of Manhole or Vault Water**

When conducting operations in any GTE manhole or vault area, Focal shall follow the Focal or GTE practice/procedure that provides the greatest degree of environmental control in evaluating and managing any water present in the manhole or vault area. Focal shall be responsible for obtaining any permit or other regulatory approval necessary for any of its operations involving the evaluation, collection, discharge, storage, disposal, or other management of water present in a GTE manhole or vault area. GTE shall not be responsible for any costs incurred by Focal in meeting its obligations under this Section unless GTE placed or otherwise caused materials or substances to be present in the manhole or vault area.

9. **Regulatory Matters**

- 9.1 GTE shall be responsible for obtaining and keeping in effect all FCC, state regulatory commission, franchise authority and other regulatory approvals that may be required in connection with the performance of its obligations under this Agreement. Focal shall be responsible for obtaining and keeping in effect all FCC, state regulatory commission, franchise authority and other regulatory approvals that may be required in connection with its offering of services to Focal Customers contemplated by this Agreement. Focal shall reasonably cooperate with GTE in obtaining and maintaining any required approvals for which GTE is responsible, and GTE shall reasonably cooperate with Focal in obtaining and maintaining any required approvals for which Focal is responsible.
- 9.2 Nothing in this Agreement shall be construed to deny either Party the right to file tariffs from time to time in the normal course of business. If GTE files a tariff that changes the price, term or other condition of a retail service offered for resale under Section 24 hereunder, such tariff change shall apply to modify the appropriate price, term or condition of such retail service under this Agreement. In the case of tariff changes affecting other prices, terms or conditions of this Agreement other than retail services offered for resale, the Commission shall determine on a case by case basis whether any such tariff change will apply to modify the relevant price, term or condition of this Agreement.

9.3 If any effective legislative, regulatory, judicial or other legal actions, including a change in Applicable Law, materially affects any material terms of this Agreement, or the ability of Focal or GTE to perform any material terms of this Agreement, Focal or GTE may, on thirty (30) days written notice (delivered not later than 30 days following the date on which such action has become effective) request that such term(s) be renegotiated, and the parties agree to so negotiate in good faith such mutually acceptable new term(s). If agreement is not achieved within thirty (30) days, either party may request mediation, in which case the parties shall submit to voluntary mediation.

10. **Liability and Indemnity**

10.1 **Liabilities of Focal** - Focal's liability to GTE during any Contract Year resulting from any and all causes under this Agreement, other than as specified in Sections 7, 8, 10.3 and 10.4 below, shall not exceed an amount equal to the amount due and owing by Focal to GTE under this Agreement during the Contract Year in which such cause accrues or arises.

10.2 **Liabilities of GTE** - GTE's liability to Focal during any Contract Year resulting from any and all causes under this Agreement, other than as specified in Sections 7, 8 and 10.4 below, shall not exceed an amount equal to any amounts due and owing by Focal to GTE under this Agreement during the Contract Year in which such cause accrues or arises.

10.3 **No Consequential Damages** - NEITHER FOCAL NOR GTE SHALL BE LIABLE TO THE OTHER PARTY FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, RELIANCE, OR SPECIAL DAMAGES SUFFERED BY SUCH OTHER PARTY (INCLUDING WITHOUT LIMITATION DAMAGES FOR HARM TO BUSINESS, LOST REVENUES, LOST SAVINGS, OR LOST PROFITS SUFFERED BY SUCH OTHER PARTIES), REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, WARRANTY, STRICT LIABILITY, OR TORT, INCLUDING WITHOUT LIMITATION NEGLIGENCE OF ANY KIND WHETHER ACTIVE OR PASSIVE, AND REGARDLESS OF WHETHER THE PARTIES KNEW OF THE POSSIBILITY THAT SUCH DAMAGES COULD RESULT. EACH PARTY HEREBY RELEASES THE OTHER PARTY AND SUCH OTHER PARTY'S SUBSIDIARIES AND AFFILIATES, AND THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS FROM ANY SUCH CLAIM.

10.4 **Obligation to Indemnify**

Each Party shall, and hereby agrees to, defend at the other's request, indemnify and hold harmless the other Party and each of its officers, directors, employees and agents (each, an "Indemnitee") against and in respect of any loss, debt, liability, damage, obligation, claim, demand, judgment or settlement or any nature or kind, known or unknown, liquidated or unliquidated, including

without limitation all reasonable costs and expenses incurred (legal, accounting or otherwise) (collectively, "Damages") arising out of, resulting from or based upon any pending or threatened claim, action, proceeding or suit by any third party (a "Claim"): (i) based upon injuries or damage to any person or property or the environment arising out of or in connection with this Agreement, that are the result of such Indemnifying Party's actions, breach of Applicable Law, or breach of representations, warranties or covenants made in this Agreement, or the actions, breach of Applicable Law or of this Agreement by its officers, directors, employees, agents and subcontractors, or (ii) for actual or alleged infringement of any patent, copyright, trademark, service mark, trade name, trade dress, trade secret or any other intellectual property right now known or later developed (referred to as "Intellectual Property Rights") to the extent that such claim or action arises from the Indemnifying Party's or the Indemnifying Party's Customer's use of the Network Elements, Ancillary Functions, Combinations, Local Services or other services provided under this Agreement.

- 10.5 **Obligation to Defend; Notice; Co-operation** - Whenever a Claim shall arise for indemnification under this Agreement, the relevant Indemnitee, as appropriate, shall promptly notify the Indemnifying Party and request the Indemnifying Party to defend the same. Failure to so notify the Indemnifying Party shall not relieve the Indemnifying Party of any liability that the Indemnifying Party might have, except to the extent that such failure prejudices the Indemnifying Party's ability to defend such Claim. The Indemnifying Party shall have the right to defend against such liability or assertion in which event the Indemnifying Party shall give written notice to the Indemnitee of acceptance of the defense of such Claim and the identity of counsel selected by the Indemnifying Party. Except as set forth below, such notice to the relevant Indemnitee shall give the Indemnifying Party full authority to defend, adjust, compromise or settle such Claim with respect to which such notice shall have been given, except to the extent that any compromise or settlement shall prejudice the Intellectual Property Rights of the relevant Indemnitees. The Indemnifying Party shall consult with the relevant Indemnitee prior to any compromise or settlement that would affect the Intellectual Property Rights of any Indemnitee, and the relevant Indemnitee shall have the right to refuse such compromise or settlement and, at the refusing Party's or refusing Parties' cost, to take over such defense, provided that in such event the Indemnifying Party shall not be responsible for, nor shall it be obligated to indemnify the relevant Indemnitee against, any cost or liability in excess of such refused compromise or settlement. With respect to any defense accepted by the Indemnifying Party, the relevant Indemnitee shall be entitled to participate with the Indemnifying Party in such defense to the extent the Claim requests equitable relief or other relief that could affect the rights of the Indemnitee and also shall be entitled to employ

separate counsel for such defense at such Indemnitee's expense. In the event the Indemnifying Party does not accept the defense of any indemnified Claim as provided above, the relevant Indemnitee shall have the right to employ counsel for such defense at the expense of the Indemnifying Party. Each Party agrees to cooperate and to cause its employees and agents to cooperate with the other Party in the defense of any such Claim and the relevant records of each Party shall be available to the other Party with respect to any such defense.

11. **Service Parity and Standards**

11.1 Notwithstanding anything in this Agreement to the contrary, GTE shall meet any service standard imposed by the FCC or by any state regulatory authority for any Local Services, Unbundled Network Elements, Ancillary Functions and Interconnection provided by GTE to Focal for resale.

11.2 GTE shall ensure that the quality of Local Services, network elements, ancillary functions, and interconnection provided to Focal are at least equal in quality to that provided by GTE to itself.

11.3 GTE and Focal agree to implement standards to measure the quality of the Local Services and Unbundled Network Elements supplied by GTE, in particular with respect to pre-ordering, ordering/provisioning, maintenance and billing. These quality standards are described in Attachment 12. In the event of a violation of Quality Standards by either Party, which the Complaining Party alleges constitutes a breach of this Agreement, the Complaining Party may elect, subject to the procedures set forth in Attachment 1, either (1) to seek such money damages as may be available at law; or (2) to claim the penalties specified in Attachment 12, but the Complaining Party may not seek both (1) and (2) based on the same alleged breach; provided, however, that nothing in this sentence shall prevent the Complaining Party from seeking equitable relief at the same time that it pursues a claim for money damages or a claim under Attachment 12.

11.4 [Intentionally Left Blank]

11.5 If Focal requests a standard higher than GTE provides to itself, such request shall be made as a Bona Fide Request pursuant to Attachment 12, and GTE may provide such standard to the extent technically feasible. Focal shall pay the incremental cost of such higher standard or other measurement of quality.

12. **Customer Credit History**

12.1 Focal and GTE agree to make available to a designated third-party credit bureau, on a timely basis, such of the following customer payment history

information that is available solely from internal business records of the providing Party for each person or entity that applies for local or IntraLATA toll Telecommunications Service(s) from either carrier. Such information shall be provided on the condition that the credit bureau will only make such information available to the carrier to which the person or entity in question has applied for Telecommunication Service.

Applicants name;
Applicant's address;
Applicant's previous phone number; if any;
Amount, if any, of unpaid balance in applicant's name;
Whether applicant is delinquent on payments;
Length of service with prior local or IntraLATA toll provider;
Whether applicant had local or IntraLATA toll service terminated or suspended within the last six months with an explanation of the reason therefor; and
Whether applicant was required by prior local or IntraLATA toll provider to pay a deposit or make an advance payment, including the amount of each.

Nothing contained herein shall require either Party to undertake obligations which would subject that Party to requirements or liabilities as a consumer reporting agency under 15 U.S.C. §1681 et seq. and its implementing regulations or any similar statute, order or administrative rule of the State.

- 12.2 **Cooperation on Fraud Minimization** - The Parties shall cooperate with one another to investigate, minimize and take corrective action in cases of fraud. The Parties' fraud minimization procedures are to be cost effective and implemented so as not to unreasonably burden or harm one Party as compared to the other. At a minimum, such cooperation shall include, when permitted by law or regulation, providing the other Party, upon reasonable request, information concerning end users who terminate services to that Party without paying all outstanding charges, when that Party is notified that such end user seeks service from the other Party. If required, it shall be the responsibility of the Party seeking the information to secure the end user's permission (in the format required by law) to obtain the information. Although in most circumstances the end user's current telephone number may be retained by the end user when switching local service providers, if an end user has past due charges associated with the account, for which payment arrangements have not been made with one Party, the end user's previous telephone number will not be made available to the other Party until the end user's outstanding balance has been paid.

13. **Force Majeure**

13.1 Except as otherwise specifically provided in this Agreement, neither Party shall be liable for any delay or failure in performance of any part of this Agreement caused by any condition beyond the reasonable control of the Party claiming excusable delay or other failure to perform, including acts of the United States of America or any state, territory or political subdivision thereof, acts of God or a public enemy, fires, floods, freight embargoes, earthquakes, volcanic actions, wars, or civil disturbances. If any Force Majeure condition occurs, the Party whose performance fails or is delayed because of such Force Majeure condition shall give prompt notice to the other Party, and upon cessation of such Force Majeure condition, shall give like notice and commence performance hereunder as promptly as reasonably practicable, including implementation of disaster recovery plans.

13.2 Notwithstanding subsection 1, preceding, no delay or other failure to perform shall be excused pursuant to this Section:

(i) by the acts or omission of a Party's subcontractors, material men, suppliers or other third persons providing products or services to such Party unless such acts or omissions are themselves the product of a Force Majeure condition, and

(ii) unless such delay or failure and the consequences thereof are beyond the reasonable control and without the fault or negligence of the Party claiming excusable delay or other failure to perform.

14. **Certain State and Local Taxes**

Any state or local excise, sales, or use taxes (excluding any taxes levied on income) resulting from the performance of this Agreement shall be borne by the Party upon which the obligation for payment is imposed under applicable law, even if the obligation to collect and remit such taxes is placed upon the other Party. The collecting Party shall charge and collect from the obligated Party, and the obligated Party agrees to pay to the collecting Party, all applicable taxes, except to the extent that the obligated Party notifies the collecting Party and provides to the collecting Party appropriate documentation that qualifies the obligated Party for a full or partial exemption. Any such taxes shall be shown as separate items on applicable billing documents between the Parties. The obligated Party may contest the same in good faith, at its own expense, and shall be entitled to the benefit of any refund or recovery, provided that such Party shall not permit any lien to exist on any asset of the other Party by reason of the contest. The collecting Party shall cooperate in any such contest by the other Party, provided that the contesting Party shall pay the reasonable expenses of the collecting Party for any such cooperative activities.

15. **Alternative Dispute Resolution**

All Disputes arising under this Agreement or the breach hereof, except those arising pursuant to Attachment 6, Connectivity Billing, shall be resolved according to the procedures set forth in Attachment 1. Disputes involving matters subject to the Connectivity Billing provisions contained in Attachment 6, shall be resolved in accordance with the Billing Disputes section of Attachment 6. In no event shall the Parties permit the pendency of a Dispute to disrupt service to any customer of any Party contemplated by this Agreement except in the case of default and termination of this Agreement pursuant to Section 3.4. The foregoing notwithstanding, neither this Section 15 nor Attachment 1 shall be construed to prevent either Party from seeking and obtaining temporary equitable remedies, including temporary restraining orders.

16. **Notices**

Any notices or other communications required or permitted to be given or delivered under this Agreement shall be in hard-copy writing (unless otherwise specifically provided herein) and shall be sufficiently given if delivered personally or delivered by prepaid overnight express service or certified mail, return receipt requested or by facsimile (followed by a hard copy delivered by U.S. Mail or another method specified herein) to the following (unless otherwise specifically required by this Agreement to be delivered to another representative or point of contact):

If to Focal Communications Corporation of Washington :

David Tatak
Director – Regulatory Affairs
200 N. LaSalle Street
Suite 1100
Chicago, Illinois 60601
Telephone number: 312/895-8400
Facsimile number: 312/895-8403

and

If to GTE:

GTE Northwest Incorporated
600 Hidden Ridge Drive – HQEWNOTICES
Irving, TX 75038
Telephone number: 972/718-6361
Facsimile number: 972/718-3403
Internet address: [wmnotices @telops.gte.com](mailto:wmnotices@telops.gte.com)

and

GTE Northwest Incorporated
Attn: Director – Wholesale Contract Compliance
Network Services
600 Hidden Ridge Drive - HQEWNOTICES
Irving, TX 75038
Telephone number: 972/718-5988
Facsimile Number: 972-718-1250

Either Party may unilaterally change its designated representative and/or address for the receipt of notices by giving seven (7) days' prior written notice to the other Party in compliance with this Section. Any notice or other communication shall be deemed given when received.

17. **Confidentiality and Proprietary Information**

- 17.1 For the purposes of this Agreement, "Confidential Information" means confidential or proprietary technical or business information, in written or tangible form, given by the Discloser to the Recipient that is stamped, labeled, or otherwise designated as "Proprietary" or "Confidential" or that contains other words or symbols clearly indicating that the information is intended to be secure from public disclosure. "Confidential Information" also includes information that is intentionally provided or disclosed orally or visually if it is identified as proprietary or confidential when provided or disclosed and is summarized in a writing so marked and delivered within ten (10) days following such disclosure. "Confidential Information" also includes information that is observed or learned by one Party while it is on the premises (including leased collocation space) of the other Party. Notwithstanding the foregoing, all orders for Local Services, Network Elements or Combinations placed by Focal pursuant to this Agreement, and information that would constitute Customer Proprietary Network Information of Focal Customers pursuant to the Act and the rules and regulations of the FCC and Recorded Usage Data as described in Attachment 7, whether disclosed by Focal to GTE or otherwise acquired by GTE in the course of the performance of this Agreement, shall be deemed Confidential Information of Focal for all purposes under this Agreement whether or not specifically marked or designated as confidential or proprietary.
- 17.2 For the period set forth in Section 17.6, except as otherwise specified in this Agreement, the Recipient agrees (a) to use it only for the purpose of performing under this Agreement, (b) to hold it in confidence and disclose it to no one other than its employees or agents or consultants having a need to know for the purpose of performing under this Agreement, and (c) to

safeguard it from unauthorized use or disclosure with at least the same degree of care with which the Recipient safeguards its own Confidential Information. Any agent or consultant must have executed a written agreement of non-disclosure and non-use comparable in scope to the terms of this Section 17 which agreement shall be enforceable by the Discloser.

- 17.3 The Recipient may make copies of Confidential Information only as reasonably necessary to perform its obligations under this Agreement. All such copies shall be subject to the same restrictions and protections as the original and shall bear the same copyright and proprietary rights notices as are contained on the original.
- 17.4 The Recipient agrees to return to the Discloser all Confidential Information received in tangible form from the Discloser, including any copies made by the Recipient, within thirty (30) days after a written request is delivered to the Recipient, or to destroy or erase all such Confidential Information and certify as to such event, except for Confidential Information that the Recipient reasonably requires to perform its obligations under this Agreement or as otherwise required by applicable law. If either Party loses or makes an unauthorized disclosure of the other Party's Confidential Information, it shall notify such other Party as soon as is reasonably practicable after the loss is discovered and use reasonable efforts to retrieve the lost or wrongfully disclosed information.
- 17.5 The Recipient shall have no obligation to safeguard Confidential Information: (a) which was in the possession of the Recipient free of restriction on use or disclosure prior to its receipt from the Discloser; (b) after it becomes publicly known or available through no breach of this Agreement or other restriction on use or disclosure by the Recipient; (c) after it is rightfully acquired by the Recipient free of restrictions on its use or disclosure; or (d) after it is proven to be independently developed by personnel of the Recipient to whom the Discloser's Confidential Information had not been previously disclosed. In addition, either Party shall have the right to disclose Confidential Information to any mediator, arbitrator, state or federal regulatory body, the Department of Justice or any court in the conduct of any mediation, arbitration or approval of this Agreement subject to the requirements concerning notice and other measures specified in the last sentence of this Subsection. Additionally, the Recipient may disclose Confidential Information if so required by law, a court of competent jurisdiction, or governmental or administrative agency, so long as the Discloser has been notified of the requirement promptly after the Recipient becomes aware of the requirement, but prior to such disclosure and so long as the Recipient undertakes all lawful measures to avoid disclosing such information until Discloser has had reasonable time to seek a protective order and Discloser complies with any protective order that covers the Confidential Information to be disclosed.

- 17.6 Each Party's obligations with respect to Confidential Information disclosed prior to expiration or termination of this Agreement shall expire three (3) years from the date of receipt of the initial disclosure, regardless of any termination of this Agreement prior to such expiration date; provided that the duties with respect to Confidential Information that is software, protocols and interfaces shall expire fifteen (15) years from the date of the initial disclosure.
- 17.7 Except as otherwise expressly provided elsewhere in this Agreement, no license is hereby granted under any patent, trademark, copyright or other Intellectual Property Right, nor is any such license implied, solely by virtue of the disclosure of any Confidential Information.
- 17.8 Each Party agrees that the Discloser would be irreparably injured by a breach of this Agreement by the Recipient or its representatives and that the Discloser shall be entitled to seek equitable relief, including injunctive relief and specific performance, in the event of any breach of the provisions of this Section 17. Such remedies shall not be deemed to be the exclusive remedies for a breach of this Section 17, but shall be in addition to all other remedies available at law or in equity.

18. **Branding**

- 18.1 Focal may, at its option, use the Network Elements, Combinations and Local Services provided in accordance with this Agreement to provide to its customers services branded as Focal. Except as otherwise provided in this Agreement or specified in a separate writing by Focal, Focal shall provide the exclusive interface to Focal Customers in connection with the marketing or offering of Focal services. When a GTE technical representative goes to a customer premise on behalf of Focal, in the event the representative has contact with the customer, the representative will indicate to the customer that he or she works for GTE but is at the customer premise on behalf of Focal regarding Focal service. If the customer is not at the premise at the time that the technical representative is at the premise, GTE agrees to deliver generic material or documents to the customer, and the representative will write Focal's name on the document or material left for the customer. GTE personnel acting on behalf of Focal will not discuss, provide, or leave information or material relative to GTE's services and products.
- 18.2 Operator Services and Directory Assistance provided by GTE to Focal local service customers under this Agreement will be branded exclusively as Focal services, where technically feasible. GTE will perform the necessary software upgrades to allow for rebranding of its Operator Services and Directory Assistance in Focal's name on a switch by switch basis, subject to capability and capacity limitations; until those upgrades have been completed, GTE will provide rebranded services through alternate means to the extent technically

feasible. Where it is not technically feasible for GTE to provide Operator Services and Directory Assistance as rebranded services, then GTE will provide such services without any branding, if allowed by state laws and regulations. Live operators handling Operator Services and Directory Assistance calls from Focal local service customers will identify themselves as Focal operators; where such rebranding is not technically feasible, live operator response will be provided on an unbranded basis.

19. **Directory Listings and Directory Distribution**

GTE shall offer the following to Focal:

- 19.1 **Directory Listings (White Pages)** - A basic listing for each Focal Customer shall be included in the GTE white pages directory for such Focal Customer's specific geographic area at no charge to Focal or Focal's Customers. Where an Focal Customer has two numbers for a line due to the implementation of interim Local Number Portability, the second number shall be considered part of the White pages basic listing. Other listings that are made available to GTE Customers (e.g. additional listings, non-published status, foreign listings, etc.) will be made available to Focal Customers on the same rates, terms and conditions as available to GTE Customers. Focal Customer Government listings will be listed in the same manner as GTE Customer Government listings.
- 19.2 **Directory Listings (Yellow Pages)** GTE will provide Focal Customers with the same yellow page services on the same terms and conditions as those provided to GTE Customers. GTE will provide each Focal Customer within the geographical area covered by the yellow pages directory a basic listing in GTE "yellow pages" under the classified heading that most accurately reflects the primary nature of the Focal Customer's business at no charge to Focal or Focal Customers for this listing. GTE will supply Focal with a list of authorized classified headings and will notify Focal of any changes to such headings. Focal agrees to supply GTE, on a regularly scheduled basis and in the format mutually agreed between Focal and GTE, with a classified heading assignment for each Focal Customer who wishes to receive this listing. GTE shall provide Focal with monthly schedules (for a rolling twelve (12) month period) for Yellow Pages publications in the State.
- 19.3 **Listing Information** - Focal agrees to supply GTE, on a regularly scheduled basis and in the format mutually agreed between Focal and GTE, all listing information for Focal Customers who wish to be listed in the white or yellow pages of the GTE published directory for that subscriber area. Listing information will consist of names, addresses (including city and ZIP code where provided in that directory) and telephone numbers. GTE shall employ the listing information for the production of GTE-published white and yellow

page directories. Listing inclusion in a given directory will be in accordance with directory configuration, scope and schedules established by GTE which are applicable to all GTE entities. GTE shall obtain Focal's prior written approval for the use of Focal Customers' listings for any other purpose. GTE will not sell or license, nor allow any third party, the use of Focal subscriber listing and GTE will not disclose non-listed name or address information for any purpose without the prior written consent of Focal, which shall not be unreasonably withheld. GTE will charge Focal a reasonable service bureau extraction fee for all third party translations and Focal will be free to establish its own fees for direct billing the third parties.

- 19.4 **Directory Distribution** - Initial directories will be provided to Focal Customers for each Focal Customer's specific geographic region on the same basis as GTE Customers within the same directory area. More specifically, GTE will not charge Focal or Focal Customers for annual distribution of directories. GTE will provide secondary distributions of directories (e.g. a new customer, requests for additional copies) to Focal Customers at the same price that GTE is charged for secondary distribution by GTE Directories. Focal shall pay GTE Directories for such secondary distributions based on GTE's agreement that the secondary distribution costs will be excluded from GTE's cost studies and resulting avoided cost discounts and prices for unbundled elements. Timing of such delivery and the determination of which Telephone Directories shall be delivered (by customer address, NPA/NXX or other criteria), and the number of Telephone Directories to be provided per customer, shall be provided under the same terms that GTE delivers Telephone Directories to GTE Customers. Focal will supply GTE in a timely manner with all required subscriber mailing information, including non-listed and non-published subscriber mailing information, to enable GTE to perform its distribution responsibilities.
- 19.5 **Critical Customer Contact Information** - GTE will list in the information pages of its directories at no charge to Focal, Focal's critical customer contact information for business and residential customers regarding emergency services, billing, sales and service information, repair service and Focal's logo. GTE shall list Competitive Local Exchange Carrier critical customer contact information on an alphabetical basis.
- 19.6 GTE shall also include, in the customer call guide page(s) of each Telephone Directory, up to four full pages of consolidated space for the inclusion of information about Focal products and services, including addresses and telephone numbers for Focal customer service. The form and content of such customer information shall be provided by Focal to GTE and shall be subject to GTE review and approval, which approval shall not be unreasonably withheld. Focal agrees to pay a price per page to be determined by GTE

Directories, provided that such price shall be nondiscriminatory to GTE and Focal.

- 19.7 GTE shall, at no charge to Focal, make available recycling services for Telephone Directories to Focal Customers under the same terms and conditions that GTE makes such services available to its own local service customers.
- 19.8 Notwithstanding anything to the contrary contained herein, GTE may terminate this Section 19 as to a specific GTE exchange in the event that GTE sells or otherwise transfers the exchange to an entity other than a GTE Affiliate. GTE shall provide Focal with at least ninety (90) days' prior written notice of such termination, which shall be effective on the date specified in the notice. Notwithstanding termination as to a specific exchange, this Section 19 shall remain in full force and effect in the remaining exchanges.
- 19.9 Notwithstanding the termination of this Section 19, the Parties' obligations with respect to any directories whose annual publication cycle has begun prior to the effective date of termination shall survive such termination. For example, if a Party terminates this Section 19 effective as of June 30, 1997, the Parties' survival obligations shall apply as follows:

Exchange	Beginning of Publication Cycle	Expiration of Obligations
1	January 1, 1997	December 31, 1997
2	June 1, 1997	May 31, 1998
3	August 1, 1997	June 30, 1997

a publication cycle begins the day following the listing activity close date for the current year's publication.

- 19.10 Directory Listing criteria shall be specified by GTE. GTE shall provide any changes to its Directory Listing Criteria thirty (30) days in advance of such changes becoming effective. The Directory Listing criteria shall include:
- 19.10.1 Classified heading information;
- 19.10.2 Rules for White Pages and Yellow Pages listings (e.g., eligibility for free Yellow Pages listing, space restrictions, unlisted and unpublished listings, abbreviated listings, foreign listings, and heading requirements);
- 19.10.3 Identification of Enhanced White Pages and Enhanced Yellow Pages listings available;
- 19.10.4 Publication schedules for White Pages and Yellow Pages;

- 19.10.5 Identification of which Telephone Directories are provided to which customers by customer address, NPA/NXX or other criteria;
- 19.10.6 Telephone Directory delivery schedules;
- 19.10.7 Restrictions, if any, on number of Telephone Directories provided at no charge to customer;
- 19.10.8 Processes and terms and conditions for obtaining foreign Telephone Directories from GTE; and
- 19.10.9 Geographic coverage areas of each Telephone (by municipality and NPA/NXX).

20. **Directory Assistance Listing Information**

- 20.1 GTE shall include in its directory assistance database all directory assistance listing information, which consists of name and address ("DA Listing Information") for all Focal Customers, including those with nonpublished and unlisted numbers, at no charge to Focal.

GTE shall provide to Focal, at Focal's request, for purposes of Focal providing Focal-branded directory assistance services to its local customers, within thirty (30) days after the Effective Date, all published GTE DA Listing Information via magnetic tape delivered within twenty-four (24) hours of preparation, at a the rate specified in Attachment 14. Changes to the DA Listing Information shall be updated on a daily basis through the same means used to transmit the initial list. DA Listing Information provided shall indicate whether the customer is a residence or business customer.

- 20.2 Neither Party will release, sell, or license DA Listing Information that includes the other Party's end user information to third parties without the other Party's approval. The other Party shall inform the releasing Party if it desires to have the releasing Party provide the other Party's DA Listing Information to the third party, in which case, the releasing Party shall provide the other Party's DA Listing Information at the same time as the releasing Party provides the releasing Party's DA Listing Information to the third party. The rate to be paid by the releasing Party to the other Party for such sales shall be negotiated on a case-by-case basis.

21. **Busy Line Verification and Busy Line Verification Interrupt**

Prior to the exchange of traffic under this Agreement, each Party shall establish procedures whereby its operator bureau will coordinate with the operator bureau of the other Party to provide Busy Line Verification ("BLV") and Busy Line Verification Interrupt ("BLVI") services on calls between their

respective end users. Each Party shall route BLV and BLVI inquiries over separate inward operator services trunks. Each Party's operator assistance bureau will only verify and/or interrupt the call and will not complete the call of the end-user initiating the BLV or BLVI. Each Party shall charge the other for the BLV and BLVI services on a bill-and-keep basis.

22. **Number Assignment**

- 22.1 GTE shall allocate Central Office Codes, i.e. NXXs, in a neutral manner at parity with itself in those LATAs where GTE is the number administrator. GTE shall not charge a fee for the allocation of NXXs to Focal for any costs including, but not limited to, programming expenses incurred by GTE in their role as number administrator; provided, however, that when responsibility for number assignment is transferred to a neutral third party, GTE shall charge a fee for such services to recover costs incurred that is consistent with the applicable rules and regulations for such.
- 22.2 GTE shall process all Focal NXX requests in a timely manner as per the ICCF Code Assignment Guidelines and will provide numbers in any NPA/NXX associated with a terminating line within the boundaries of an LSO, in those LATAs where GTE is the number administrator.
- 22.3 GTE, during the interim period, will maintain its current process of notifying public utility commissions and state regulatory bodies of plans for NPA splits and code relief.
- 22.4 GTE shall treat as confidential, and solely for use in its role as Code Administrator and for no other purpose, any and all information received from Focal regarding NPA/NXX forecasts. This information shall be used only for the purposes of code administration, e.g. NPA code relief studies.
- 22.5 GTE shall participate in the transition of its code administration responsibilities to a neutral third party and will notify Focal if there are not sufficient numbers to meet the forecasted requirements of Focal.
- 22.6 GTE shall provide Focal with a file, or files, containing a street address/LSO cross reference indicating which LSO serves the cross referenced street address.

23. **Miscellaneous**

- 23.1 **Delegation or Assignment** - Any assignment by either Party of any right, obligation, or duty, in whole or in part, or of any interest, without the written consent of the other Party shall be void, except that either Party may assign all of its rights, and delegate its obligations, liabilities and duties under this Agreement, either in whole or in part, to any entity that is, or that was, an

Affiliate of that Party without consent, but with written notification, provided that in the case of Focal, such Affiliate is a certified provider of local dial-tone service in the State to the extent such State requires such certification. The effectiveness of an assignment shall be conditioned upon the assignee's assumption of the rights, obligations, and duties of the assigning Party.

- 23.2 **Subcontracting** - GTE may subcontract the performance of any obligation under this Agreement without the prior written consent of Focal, provided that GTE shall remain fully responsible for the performance of this Agreement in accordance with its terms, including any obligations it performs through subcontractors, and GTE shall be solely responsible for payments due its subcontractors. No contract, subcontract or other Agreement entered into by either Party with any third party in connection with the provision of Local Services or Network Elements hereunder shall provide for any indemnity, guarantee or assumption of liability by, or other obligation of, the other Party to this Agreement with respect to such arrangement, except as consented to in writing by the other Party. No subcontractor shall be deemed a third party beneficiary for any purposes under this Agreement.
- 23.3 [Intentionally deleted].
- 23.4 **Binding Effect** - This Agreement shall be binding on and inure to the benefit of the respective successors and permitted assigns of the Parties.
- 23.5 **Nonexclusive Remedies** - Except as otherwise expressly provided in this Agreement, each of the remedies provided under this Agreement is cumulative and is in addition to any remedies that may be available at law or in equity.
- 23.6 **No Third-Party Beneficiaries** - Except as specifically set forth in Section 10.4 and 10.5, this Agreement does not provide and shall not be construed to provide third parties with any remedy, claim, liability, reimbursement, cause of action, or other privilege.
- 23.7 **Referenced Documents** - Whenever any provision of this Agreement refers to a technical reference, technical publication, Focal Practice, GTE Practice, any publication of telecommunications industry administrative or technical standards, or any other document expressly incorporated into this Agreement, it will be deemed to be a reference to the most recent version or edition (including any amendments, supplements, addenda, or successors) of such document that is in effect at the time of the execution of this Agreement, and will include the most recent version or edition (including any amendments, supplements, addenda, or successors) of each document incorporated by reference in such a technical reference, technical publication, Focal Practice, GTE Practice, or publication of industry standards.

- 23.8 **Regulatory Agency Control** - This Agreement shall at all times be subject to changes, modifications, orders, and rulings by the FCC and/or the applicable state utility regulatory commission to the extent the substance of this Agreement is or becomes subject to the jurisdiction of such agency. This Agreement is subject to approval of the Commission in accordance with Section 252 of the Act. This Agreement shall not become effective until five (5) Business Days after receipt by the Parties of written notice of such approval. "Business Day" shall mean Monday through Friday, except for holidays on which the U. S. Mail is not delivered.
- 23.9 [Intentionally deleted].
- 23.10 **Publicity and Advertising** - Any news release, public announcement, advertising, or any form of publicity pertaining to this Agreement, or the provision of Local Services, Unbundled Network Elements, Ancillary Functions or Interconnection Services pursuant to it, or association of the Parties with respect to provision of the services described in this Agreement shall be subject to prior written approval of both GTE and Focal. Neither Party shall publish or use any advertising, sales promotions or other publicity materials that use the other Party's logo, trademarks or service marks without the prior written approval of the other Party.
- 23.11 **Amendments or Waivers** - Except as otherwise provided in this Agreement, no amendment or waiver of any provision of this Agreement, and no consent to any default under this Agreement, shall be effective unless the same is in writing and signed by an officer of the Party against whom such amendment, waiver or consent is claimed. In addition, no course of dealing or failure of a Party strictly to enforce any term, right or condition of this Agreement shall be construed as a waiver of such term, right or condition. By entering into this Agreement, neither Party waives any right granted to it pursuant to the Act.
- 23.12 **Severability** - If any term, condition or provision of this Agreement is held by a governmental body of competent jurisdiction to be invalid or unenforceable for any reason, such invalidity or unenforceability shall not invalidate the entire Agreement. The Agreement shall be construed as if it did not contain the invalid or unenforceable provision or provisions, and the rights and obligations of each Party shall be construed and enforced accordingly.
- 23.13 **Entire Agreement** - This Agreement, which shall include the Attachments, Appendices and other documents referenced herein, constitutes the entire Agreement between the Parties concerning the subject matter hereof and supersedes any prior agreements, representations, statements, negotiations, understandings, proposals or undertakings, oral or written, with respect to the subject matter expressly set forth herein.

- 23.14 **Survival of Obligations** - Any liabilities or obligations of a Party for acts or omissions prior to the cancellation or termination of this Agreement; any obligation of a Party under the provisions regarding indemnification, Confidential Information, limitations on liability, and any other provisions of this Agreement which, by their terms, are contemplated to survive (or to be performed after) termination of this Agreement, shall survive cancellation or termination thereof.
- 23.15 [Intentionally deleted].
- 23.16 **Headings of No Force or Effect** - The headings of Articles and Sections of this Agreement are for convenience of reference only, and shall in no way define, modify or restrict the meaning or interpretation of the terms or provisions of this Agreement.
- 23.17 **Trademarks and Trade Names** - Except as specifically set out in this Agreement, nothing in this Agreement shall grant, suggest, or imply any right, license or authority for one Party to use the name, trademarks, service marks, or trade names of the other Party for any purpose whatsoever.
- 23.18 **Notice of Network and Technology Changes** - GTE shall establish quarterly reviews of network and technologies plans. GTE shall notify Focal at least six (6) months in advance of changes that would impact Focal's provision of service.
- 23.19 **Technical References** -
- 23.19.1 The technical references cited throughout this Agreement shall apply unless GTE shall offer, within ninety (90) days following Commission approval of this Agreement, GTE's proposed substitute technical references, for consideration and review by subject matter experts designated, respectively, by Focal and GTE. Within ten (10) business days following Focal's receipt of true and complete copies of GTE's proposed substitute technical references, Focal and GTE subject matter experts shall meet in person or via teleconference to review the substitute reference(s) with a view toward achieving agreement on the suitability of such references for implementation and incorporation into this Agreement. The subject matter experts may agree to implement and incorporate, to modify or supplement, or to replace any such substitute technical reference proposed by GTE. Where they so agree, the resulting substitute technical reference shall be implemented and incorporated forthwith, by formal amendment in writing, into this Agreement. Where they disagree with respect to the suitability or adequacy of any such proposed substitute technical reference, the GTE-proposed substitute technical reference shall be incorporated into this Agreement at the conclusion of the ten business day period cited above, by formal amendment in writing, subject to Focal's right to pursue the dispute and the implementation of more suitable

technical references through the ADR procedures set forth in Attachment 1 to this Agreement. Focal may initiate such ADR procedures within sixty (60) days following the incorporation of the challenged technical reference into this Agreement.

23.19.2 The parties recognize the possibility that some equipment vendors may manufacture telecommunications equipment that does not fully incorporate or may deviate from the technical references contained in this Agreement. To the extent that, due to the manner in which individual manufacturers may have chosen to implement industry standards into the design of their product, or due to the differing vintages of these individual facility components and the presence of embedded technologies that pre-date certain technical references, some of the individual facility components deployed with GTE's network may not adhere to the technical references, then, within forty-five (45) days after the Effective Date of this Agreement:

(a) the Parties will develop processes by which GTE will inform Focal of any such deviations from technical standards for Network Elements or Combinations ordered by Focal;

(b) the Parties will develop further processes and procedures designed, upon notice of such deviations from technical standards, to address the treatment of GTE and Focal customers at parity; and

(c) the parties will take such other mutually agreed upon actions as shall be appropriate in the circumstances.

23.20 Any figures and/or schematics used throughout this Agreement, including, but not limited to, the figures and/or schematics used in Attachment 2 to this Agreement, are for the convenience of reference only, and shall in no way define, modify or restrict the meaning or interpretation of the terms or provisions of this Agreement.

PART I LOCAL SERVICES RESALE

24. Telecommunications Services Provided for Resale

Upon request by Focal in accordance with Section 25.1 and subject to the restrictions contained in Section 25.3 hereunder, GTE shall make available to Focal at the applicable rate set forth in Attachment 14, any Telecommunications Service that GTE currently offers or may hereafter offer at retail to subscribers that are not telecommunications carriers. Such Telecommunications Services provided by GTE pursuant to this Section are collectively referred to as "Local Services."

25. General Terms and Conditions for Resale

25.1 Ordering

- 25.1.1 Orders for resale of Local Services will be placed utilizing a standard Local Service Request ("LSR") form. A complete and accurate LSR must be provided by Focal before a request can be processed; provided, however, that immaterial deviations or omissions in the LSR will not prevent an order from being processed. Each Party shall transfer the customer's service features and functionalities "as is" to the other Party when requested by a customer. For purposes of this Section 25, an "as is transfer" is the transfer of all the telecommunications services and features available for resale that are currently being provided for the specified account without the requirement of a specific enumeration of the services and features on the LSR.
- 25.1.2 A Letter of Authorization ("LOA") will be required before Local Services will be provided for resale to a subscriber that currently receives local exchange service from GTE or from a local service provider other than Focal. Such LOA may be a blanket letter of authorization (Blanket LOA) or such other form as agreed upon by Focal and GTE. When a Blanket LOA has been provided by Focal, GTE shall not require an additional disconnect order, LOA or other writing from a customer, or another LEC, in order to process an order for Local Service. Each Party will provide the capability for customers to retain their current phone number in the event that they change local service providers to the extent technically feasible, allowing them to retain all existing features and functionalities.
- 25.1.3 GTE shall include an Focal Customer's listing in its Directory Assistance database as part of the Local Service Request ("LSR") process. GTE will honor Focal Customer's preferences for listing status, including non-published and unlisted, as noted on the LSR and will enter the listing in the GTE

database which is used to perform Directory Assistance functions as it appears on the LSR.

- 25.1.4 GTE shall accept requests for a change in the primary interexchange carrier of a local exchange customer of Focal only from Focal.

25.2 **Pricing**

The prices to be charged to Focal for Local Services under this Agreement are set forth in Part V of this Agreement.

25.3 **Restrictions on Resale**

To the extent consistent with the applicable rules and regulations of the FCC and the Commission, Focal may resell all GTE Local Services as defined in GTE's tariffs. The following restrictions shall apply to the resale of Local Services, as described in Section 24 of this Agreement by Focal: (i) Focal shall not resell residential services to business customers; (ii) GTE shall not be required to offer at a wholesale discount to Focal any GTE promotional offering that is made available to any GTE customer for a period of ninety (90) days or less; (iii) and GTE shall not be required to provide to Focal for resale any retail service which a telecommunications carrier is by law required to provide as a social benefit to a specially designated class of customer. Focal shall determine whether its customers qualify for any such social programs and shall bear the costs associated with the provision of such programs.

- 25.4 [Intentionally deleted]

25.5 **Dialing and Service Parity**

- 25.5.1 GTE will provide the same dialing parity to Focal Customers as similarly-situated GTE Customers, such that, for all call types, an Focal Customer is not required to dial any greater number of digits than a similarly-situated GTE Customer; provided however with respect to intra-LATA dialing, GTE shall provide dialing parity to Focal customers in the State in accordance with the provisions and schedule established by the Commission.
- 25.5.2 GTE will provide service levels for Local Services for resale that are equal to service levels for similarly-situated GTE Customers, such that there is no loss of features or functionalities including, but not limited to: same dial tone and ringing; same capability for either dial pulse or touch tone recognition; flat and measured services; speech recognition as available; same extended local free calling area; 1+ IntraLATA toll calling; InterLATA toll calling and international calling; 500, 700, 800, 900, 976 and Dial Around (10xxx) Services; restricted collect and third number billing; all available speeds of

analogue and digital private lines; off-premise extensions; CENTRANET and ISDN.

25.6 **Changes in Retail Service**

GTE will notify Focal of proposed new retail services or modifications to existing retail services forty-five (45) days prior to the expected date of regulatory approval of the new or modified services. If new services or modifications are introduced with less than forty-five (45) days notice to the regulatory authority, GTE will notify Focal at the same time it determines to introduce the new or modified service. With respect to changes in prices for existing retail services or related resale rates, GTE will notify Focal at the same time as GTE begins internal implementation efforts (i.e., at least at the time that GTE's Product Management Committee is notified of the proposed change) or obtains internal approval to make the price change, whichever is sooner.

26. **Requirements for Specific Services**

26.1 [Intentionally deleted]

26.2 CLASS/LASS and Custom Features Requirements

Focal may purchase the entire set of CLASS/LASS and Custom features and functions, or a subset of any one or any combination of such features, on a customer-specific basis, without restriction on the minimum or maximum number of lines or features that may be purchased for any one level of service, provided such CLASS/LASS and Custom features are available to GTE Customers served by the same GTE Central Office. GTE shall provide to Focal a list of CLASS/LASS and Custom features and functions within ten (10) business days of the Effective Date and shall provide updates to such list when new features and functions become available. GTE shall provide to Focal a list of all services, features, and products including a definition of the service (by specific reference to the appropriate tariff sections) and how such services interact with each other. GTE shall provide features and services by street address guide and by switch. All features shall be at least at parity with the GTE service offering.

26.3 This Section intentionally left blank.

26.4 **Intercept and Transfer Service**

GTE shall provide intercept and transfer service to Focal for Focal Customers on the same basis and for the same length of time as such service is available to similarly-situated GTE Customers. To that end, when an end-user customer transfers service from GTE to Focal, or from Focal to GTE, and

does not retain its original telephone number, the Party formerly providing service to the end user will provide, upon request, a referral announcement on the original telephone number. The announcement will provide the new number of the customer.

26.5 E911/911 Services

GTE shall provide to Focal, for Focal Customers, E911/911 call routing to the appropriate PSAP. Focal shall provide Focal Customer information to GTE, and GTE shall validate and provide Focal Customer information to the PSAP. GTE shall use its service order process to update and maintain, on the same schedule that it uses for its end users, the Focal Customer service information in the ALI/DMS (Automatic Location Identification/Location Information Database Management System) used to support E911/911 services, pursuant National Emergency Number Agency (NENA) standards. Focal shall have the right to verify the accuracy of the information regarding Focal Customers in the ALI database.

26.6 Telephone Relay Service

GTE will provide the following information to Focal at no additional charge:

- (i) information concerning a customer's qualification for Telephone Relay Service (TRS) on the Customer Service Record (CSR) when that customer chooses Focal for local service; and
- (ii) all usage billing information which GTE receives from a provider of TRS for TRS usage by an Focal Customer.

26.7 Voice Mail Related Services

Nothing in this Agreement shall limit the right of Focal to purchase features capabilities of voice mail services in accordance with GTE's tariffs. In addition, nothing in this Agreement shall limit the right of Focal to combine features capabilities of voice mail services purchased in accordance with GTE's tariffs with any Local Services purchased for resale in accordance with this Agreement.

26.8 Voluntary Federal Customer Financial Assistance Programs

Local Services provided to low-income subscribers, pursuant to requirements established by the appropriate state or federal regulatory body, include programs such as Voluntary Federal Customer Financial Assistance Programs, such as Lifeline, and Link-up America (collectively referred to as "Voluntary Federal Customer Financial Assistance Programs") and Directory Assistance - Exempt. When a GTE Customer eligible for these services chooses to obtain Local Service from Focal, GTE shall forward to Focal on the Customer Service Record information regarding such customer's eligibility to participate in such programs. If GTE under the applicable laws of the State

cannot provide the CSR to Focal, GTE shall otherwise inform Focal of such customer's eligibility.

27. **Advanced Intelligent Network**

27.1 GTE will provide Focal access to the GTE Service Creation Environment (SCE) to design, create, test, deploy and provision AIN-based features, equivalent to the access GTE provides to itself, providing that security arrangements can be made. Focal requests to use the GTE SCE will be subject to request, review and testing procedures to be agreed upon by the parties.

27.2 When Focal utilizes GTE's Local Switching network element and requests GTE to provision such network element with a technically feasible AIN trigger, GTE will provide access to the appropriate AIN Call Related Database for the purpose of invoking either a GTE AIN feature or an Focal developed AIN feature described in 27.1, above.

27.3 When Focal utilizes its own local switch, GTE will provide access to the appropriate AIN Call Related Database for the purpose of invoking either a GTE AIN feature or an Focal developed AIN feature described in 27.1, above.

27.4 Any mediation to GTE's AIN database will be performed on a competitively neutral, nondiscriminatory basis. Any network management controls found necessary to protect the SCP from an overload condition must be applied on a nondiscriminatory basis for all users of that database, including GTE. GTE and Focal agree that any load mediation will affect all links to the STP, including GTE's, in a like manner. Focal will provide the information necessary to ensure that GTE is able to engineer sufficient capacity on the AIN SCP platform.

28. **Routing to Directory Assistance and Operator Services**

28.1 Where Focal purchases either Local Services or Local Switching as an Unbundled Element, unless Focal requests otherwise, GTE will, where technically feasible, provide the functionality and features required to modify the Focal Customer's line at GTE's local switch (LS) to route all calls to the Focal Network for local Directory Assistance and the Focal Platform for Operator Services.

28.2 **Directory Assistance**

Upon Focal's request, and where technically feasible GTE shall route local Directory Assistance calls, including 411 and (NPA) 555-1212, dialed by Focal Customers directly to the Focal platform, unless Focal requests otherwise pursuant to Section 28.7.2.

28.3 Operator Services

Upon Focal's request, and where technically feasible, GTE shall route local Operator Services calls (0+, 0-) dialed by Focal Customers directly to the Focal Local Operator Services platform, unless Focal requests otherwise pursuant to Section 28.7.1. Such traffic shall be routed over trunk groups specified by Focal which connect GTE end offices and the Focal Local Operator Services platform, using standard Operator Services dialing protocols of 0+ or 0-. Where intraLATA presubscription is not available, GTE will provide the functionality and features within its local switch (LS), to route Focal Customer dialed 0- and 0+ intraLATA calls to the Focal designated line or trunk on the Main Distributing Frame (MDF) or Digital Cross Connect (DSX) panel via Modified Operator Services (MOS) Feature Group C signaling. Where intraLATA presubscription is available, Focal Customer dialed 0- and 0+ intraLATA calls will be routed to the intraLATA PIC carrier's designated operator services platform. In all cases, GTE will provide post-dial delay no greater than that provided by GTE for its end user customers. For switches lacking the existing capacity and capability to provide the customized rerouting described in this Section 28, GTE shall develop alternative forms of customized routing.

28.4 Repair Calls

In the event an Focal Customer calls GTE with a request for repairs, GTE shall provide the Focal Customer with Focal's repair 800-telephone number. Focal agrees to provide GTE with Focal's repair 800-telephone numbers.

In the event a GTE Customer calls Focal with a request for repairs, Focal shall provide the GTE Customer with GTE's repair 800-telephone number. GTE agrees to provide Focal with GTE's repair 800-telephone number.

28.5 Non-discriminatory Treatment

All direct routing capabilities described herein shall permit Focal Customers to dial the same telephone numbers for Focal Directory Assistance, Local Operator and the same number of digits for Repair Services that similarly-situated GTE Customers dial for reaching equivalent GTE services. Focal and GTE will use 800/888 numbers where necessary to achieve this result.

28.6 **Emergency Calls**

Within thirty (30) days of Focal's request, GTE shall provide to Focal the emergency public agency (e.g., police, fire, ambulance) telephone numbers linked to each NPA-NXX. Such data will be transmitted in a mutually agreeable format.

28.7 **Optional Routing**

28.7.1 **Operator Services:** Focal may request GTE to route Focal Customers to GTE Operator Services. In this case, the requirements for GTE-provided Operator Services as part of the Total Services Resale service shall be those requirements specified in Attachment 2, "Unbundled Elements", Section 5.1, "Operator Services."

28.7.2 **Directory Assistance:** Focal may request GTE to route Focal Customers to GTE's Directory Assistance. In this case, the requirements for GTE-provided Directory Assistance Services as part of the Total Services Resale service shall be those requirements specified in Attachment 2, "Unbundled Elements", Section 6, "Directory Services."

28.8 **Line Information Database Updates**

GTE shall update and maintain Focal Customer information in the GTE Line Information Database ("LIDB") in the same manner and on the same schedule that it maintains information in LIDB for GTE Customers.

28.9 **Telephone Line Number Calling Cards**

Upon request by an Focal Customer or by Focal on behalf of an Focal Customer, and effective as of the date of an end user's subscription to Focal service (or such later date as such request is received), GTE will remove any GTE-assigned telephone line calling card number (including area code) ("TLN") from GTE's LIDB. Focal may issue a new telephone calling card to such customer, utilizing the same TLN, and Focal shall have the right to enter such TLN in Focal's LIDB for calling card validation purposes.

28.10 **End Office Features**

GTE shall provide the following end-office features in those end offices in which such features are available to GTE Customers: CLASS features; Repeat Dial Capability; Multi-line Hunting; and trunk connectivity to private branch exchange switches (PBX's) and Direct Inward Dialed Services and all other end-office features that GTE makes available to GTE Customers.

28.11 Call Blocking

Upon Focal's request and when available to similarly-situated GTE Customers, GTE will provide blocking on a line by line basis of an Focal Customer's access to any or all of the following call types: 900/976; bill to third and collect; and such other call types for which GTE provides blocking to similarly situated GTE Customers.

28.12 Law Enforcement and Service Annoyance

Not later than forty-five (45) business days after the Effective Date, GTE and Focal will begin the process of developing procedures to handle requests from law enforcement agencies for service termination, wire taps and provisions of Customer Usage Data pursuant to a lawful process as well as procedures to handle Focal Customer complaints concerning harassing or annoying calls. Such procedures will include, but not be limited to, a process for Focal to interface with GTE regarding law enforcement and service annoyance issues on a 24 hour per day, 7 days a week basis and otherwise on the same basis as GTE provides access for its own customers.

29. Service Support Functions

29.1 Electronic Interface

29.1.1 Until such time as GTE and Focal are able to fully implement electronic interfaces ("EI"), GTE and Focal agree to use interim processes for Pre-Ordering, Ordering, Provisioning, Maintenance, Repair and Billing.

29.1.1.1 The schedule for implementing an interim electronic interface shall be subject to the memorandum of understanding ("MOU") relating to electronic interfaces negotiated by GTE and Focal under the direction of the California Commission in connection with the decision in 96-07-022.

29.1.2 In accordance with the schedule set out in the MOU, GTE shall provide a Real Time electronic interface ("EI") for sending and receiving information on demand for Pre-Ordering, for Ordering/Provisioning data and materials (e.g., access to Street Address Guide ("SAG") and Telephone Number Assignment database), and for scheduling service delivery. GTE shall provide an electronic interface ("EI") for sending and receiving information on agreed, pre-defined schedules ("batch communications") for reports and Billing. These interfaces shall be administered through a national ordering platform that will serve as a single point of contact for the transmission of such data from Focal to GTE, and from GTE to Focal.

29.1.3 No later than six (6) months after the Effective Date of this Agreement, GTE will : (i) establish the national gateway standards to be used by Focal and all

other carriers connecting to GTE's Operations Support Systems ("OSS"); and (ii) establish the date by which GTE will provide permanent national gateway access to its OSS. GTE will provide this permanent national gateway access at the earliest practical date but in no case later than twelve (12) months after the Effective Date of this Agreement, which shall include ensuring that all interfaces are operational and end-to-end testing has been successfully completed.

29.1.4 **[DELETED]**

29.1.5 The Parties agree that the principles outlined in Attachment 13 and related time schedules will be used as a starting point for the development of the permanent national gateway.

29.1.6 GTE shall provide the same information, of the same quality and within the same time frames for Pre-Ordering, Ordering/Provisioning, Maintenance/Repairs and Billing to Focal as GTE provides to itself. The Parties recognize that GTE is not required to establish new systems or processes in order to provide information to Focal which GTE does not provide to itself.

29.1.7 GTE shall recover its costs of creating the permanent OSS gateway and any interim interfaces in a competitively neutral manner.

29.2 **Service Standards**

29.2.1 GTE shall ensure that all Service Support Functions used to provision Local Service to Focal for resale are provided at a quality level which GTE is required to meet by its own internal procedures or by law, or is actually meeting, in providing Local Service to itself, to its end users or to its affiliates.

29.2.2 Not later than twenty (20) business days after the Effective Date of this Agreement, GTE and Focal shall begin the process of developing mutually agreed-upon escalation and expedite procedures to be employed at any point in the Local Service Pre-Ordering, Ordering/Provisioning, Testing, Maintenance, Billing and Customer Usage Data transfer processes to facilitate rapid and timely resolution of Disputes.

29.3 **Point of Contact for the Focal Customer**

29.3.1 Except as otherwise provided in this Agreement or as directed by Focal, Focal shall be the single and sole point of contact for all Focal Customers with respect to Focal Local Services.

29.3.2 GTE shall refer all questions regarding any Focal service or product directly to Focal at a telephone number specified by Focal and provided to GTE for that purpose.

29.3.3 GTE representatives who receive inquiries regarding Focal services: (i) shall refer callers who inquire about Focal services or products to the numbers provided; and (ii) will not in any way disparage or discriminate against Focal, or its products or services.

29.4 **Single Point of Contact**

Each Party shall provide the other Party with a single point of contact ("SPOC") for each functional area for all inquiries regarding the implementation of this Part. Each Party shall accept all inquiries from the other Party and provide timely responses.

29.5 **Service Order**

To facilitate the ordering of new service for resale or changes to such service to an Focal Customer, Focal's representative will have access to GTE Customer information to enable the Focal representative to perform the tasks enumerated below. Until electronic interfaces are established, these functions will be performed with the use of an 800 number.

- 29.5.1 Obtain customer account information through the same nondiscriminatory access to Operation Support Systems for pre-ordering, ordering, provisioning, maintenance and repair, and billing as GTE provides itself including information regarding the facilities and services assigned to individual customers.
- 29.5.2 Obtain information on all features and services available, including new services, by LSO identified by switch, NPA-NXX and customer street address.
- 29.5.3 Submit the Focal Customer order by submitting an LSR using the agreed upon electronic interface (the Network Data Mover or NDM) for all desired features and services;
- 29.5.4 Assign a telephone number, including a vanity number, (if the Focal Customer does not have one assigned). As an interim step prior to the implementation of the electronic interface specified in Section 29.1, GTE will establish an 800 (toll-free) number for Focal;
- 29.5.5 Submit the appropriate directory listing using the agreed to EI;
- 29.5.6 Determine if a service call is needed to install the line or service;
- 29.5.7 Schedule dispatch and installation, if applicable;
- 29.5.8 Provide service availability dates to customer;

- 29.5.9 Order local and intraLATA toll service and enter Focal Customer's choice of primary interexchange carrier on a single, unified order; and
- 29.5.10 Suspend, terminate or restore service to an Focal Customer using agreed to methods (temporary disconnects for nonpayment may not be requested using the LSR).

29.6 PROVISIONING

- 29.6.1 After receipt and acceptance of an LSR, GTE shall provision such LSR in accordance with the following Intervals and in accordance with the service parity standards and other performance standards specified in Section 11 and Attachment 12.
- 29.6.2 GTE shall provide Focal with service status notices, on a Real Time basis. Such status notices shall include the following:
 - 29.6.2.1 Firm order confirmation, including service availability date and information regarding the need for a service dispatch for installation;
 - 29.6.2.2 Notice of service installation issued at time of installation, including any additional information, such as material charges;
 - 29.6.2.3 Changes/rejections/errors in LSRs;
 - 29.6.2.4 Service completion;
 - 29.6.2.5 Jeopardies and missed appointments;
 - 29.6.2.6 Charges associated with necessary construction;
 - 29.6.2.7 Order status at critical intervals;
 - 29.6.2.8 Test results of the same type that GTE records for itself or its own customers.
- 29.6.3 GTE shall inform Focal of overall change order flexibility and any changes thereto on a Real Time basis.
- 29.6.4 GTE shall notify Focal prior to making any changes in the services, features or functions specified on the LSR. If an Focal Customer requests a service change at the time of installation GTE shall refer the Focal Customer to Focal.
- 29.6.5 GTE shall provide provisioning support to Focal on the same basis that it provides to other competitive LECs and to itself. GTE retains full discretion to control the scheduling of its provisioning workforce.

29.6.6 GTE shall provide training for all GTE employees who may communicate, either by telephone or face-to-face, with Focal Customers, during the provisioning process. Such training shall include training on compliance with the branding requirements of this Agreement.

29.7 **Provision of Customer Usage Data**

GTE shall provide the Customer Usage Data recorded by GTE. Such data shall include complete Focal Customer usage data for Local Service, (i.e., the same usage data that GTE records for billing its own customers), in accordance with the terms and conditions set forth in Attachment 7.

29.8 **Service/Operation Readiness Testing**

29.8.1 In addition to testing described elsewhere in this Section 29, GTE shall test the systems used to perform the following functions at a negotiated interval and in no event less than ten (10) business days prior to commencement of GTE's provision of Local Service to Focal, in order to establish system readiness capabilities:

29.8.1.1 All interfaces between Focal and GTE work centers for Service Order Provisioning;

29.8.1.2 Maintenance, Billing and Customer Usage Data;

29.8.1.3 The process for GTE to provide customer profiles;

29.8.1.4 The installation scheduling process;

29.8.1.5 Network alarm reporting;

29.8.1.6 Telephone number assignment;

29.8.1.7 Procedures for communications and coordination between Focal SPOC and GTE SPOC;

29.8.1.8 Procedures for transmission of Customer Usage Data; and

29.8.1.9 Procedures for transmitting bills to Focal for Local Service.

29.8.2 The functionalities identified above shall be tested in order to determine whether GTE performance meets the service parity requirements and other performance standards specified in Section 11. GTE shall make available sufficient technical staff to perform such testing. GTE technical staff shall be available to meet with Focal as necessary to facilitate testing. GTE and Focal shall mutually agree on the schedule for such testing.

- 29.8.3 At Focal's request, GTE shall provide to Focal any results of the testing performed pursuant to the terms of this Part. Focal may review such results and may notify GTE of any failures to meet the requirements of this Agreement.
- 29.8.4 GTE shall provide to Focal the same type and quality of loop testing information that it provides to and records for itself. Where GTE develops loop testing information as a matter of course, it will make that information available to Focal where such information is relevant to Focal's business. Where GTE maintains the internal discretion to test loops as needed, GTE will provide similar testing discretion to Focal. Focal shall pay the full cost of any such discretionary testing.
- 29.8.5 Within 60 days of the Effective Date of this Agreement, Focal and GTE will agree upon a process to resolve cooperative testing issues and technical issues relating to GTE's provision of Local Services to Focal. The agreed upon process shall include procedures for escalating disputes and unresolved issues up through higher levels of each company's management. If Focal and GTE do not reach agreement on such a process within 60 days, any issues that have not been resolved by the Parties with respect to such process shall be submitted to the ADR procedures set forth in Section 14 and Attachment 1 of this Agreement unless both Parties agree to extend the time to reach agreement on such issues.

29.9 **Maintenance**

GTE shall provide maintenance in accordance with the requirements and standards set forth in Attachment 5 and in accordance with the service parity requirements set forth in this Agreement.

29.10 **Billing For Local Service**

- 29.10.1 GTE shall bill Focal for Local Service provided by GTE to Focal pursuant to the terms of this Part, and in accordance with the terms and conditions for Connectivity Billing and Recording in Attachment 6.
- 29.10.2 GTE shall recognize Focal as the customer of record for all Local Service and will send all notices, bills and other pertinent information directly to Focal.

30. **Pay Phone Lines and Pay Phone Services**

- 30.1 Intentionally left blank.
- 30.2 "Pay phone lines" are defined as the loop from the pay phone point of demarcation to the Service Wiring Center and includes all supporting central office functions and features.

- 30.3 GTE shall make available to Focal for resale the following classes of pay phone lines:
 - 30.3.1 Customer Owned Coin Operated Telephone (COCOT) Lines;
 - 30.3.2 Coinless COCOT Lines;
 - 30.3.3 Coin Lines in those jurisdictions where provision of such lines is required by law;
 - 30.3.4 [This section left intentionally blank]
 - 30.3.5 Semi Public Lines.
- 30.4 GTE shall also make available to Focal for resale any future class of pay phone lines that GTE provides at retail to subscribers other than telecommunication carriers.
- 30.5 GTE shall make available pay phone line service options as follows:
- 30.6 When providing COCOT Lines to Focal for resale, GTE shall offer the following, to the extent that GTE provides such services and in those jurisdictions and/or central offices where available: originating line screening; billed number screening; PIC protection for all 1+ inter and intraLATA traffic (when presubscription is authorized); one way and/or two way service (if so provided in the applicable tariff) on the line; detailed billing showing all 1+ traffic; Focal's service center phone number to all Focal end users that contact GTE service centers; number portability for end users; touchtone service; line side answer supervision; GTE designated contact center as single point of contact for customer service; provisioning of 9 1 1 service; access to Answer Number Identifier (ANI) Information; all information necessary to permit Focal to bill end users for access line usage; the same monitoring and diagnostic routines as GTE utilizes on its own facilities; one directory for each line installed; blocking for 1+ international calls, 10XXX1+ international calls 1-900 calls, 1-976 calls DA link, any 1+ service that can be billed to the line but that is not rated, 1-700 calls, 1-500 calls, and in bound international calls where SS7 signalling is available.
- 30.7 When providing Coinless COCOT Lines to Focal for resale, GTE shall offer the following, to the extent that GTE provides such services and in those jurisdictions and/or central offices where available: originating line screening; billed number screening; PIC protection for all 1+ inter and intraLATA traffic (where inter and intraLATA presubscription is available); one way and/or two way service on the line (if so provided in the tariff); flat service where flat service is required by the applicable tariff, measured service where measured service is required by the applicable tariff, and both flat and measured service

where both flat and measured service are required by the applicable tariff; detailed billing showing all 1+ traffic; Focal's service center phone number to all Focal end users that contact GTE service center; number portability for end users; touchtone service; GTE designated contact center as single point of contact for customer service; provisioning of 9 1 1 service; access to ANI information; all information necessary to permit Focal to bill end users for access line usage; the same monitoring and diagnostic routines as GTE utilizes on its own facilities; one directory for each line installed; blocking for any service that can be billed to the line but not rated and all 1+ calls except where local mandate requires access to Directory Assistance.

- 30.8 [Intentionally deleted.]
- 30.9 When providing Customer Owned Pay Telephone (COPT) Lines to Focal for resale, GTE shall offer the following to the extent that GTE provides such services and in those jurisdictions and/or central offices where available. Access to all Central Office intelligence required to provide COPT Line pay phone services; far end disconnect recognition; call timing for intra- and interLATA calls; at the customer's option, one way or two way service on the line in those jurisdictions where available; detailed billing showing all 1+ traffic; Focal's service center phone number to all Focal end users; touchtone service; line side supervision in those jurisdictions where available; GTE designated contact center for use by Focal only as single point of contact for customer service; provisioning of 911 service; access to ANI information; all information necessary to permit Focal to bill end users for access line usage; the same monitoring and diagnostic routines as GTE utilizes on its own facilities; one directory for each line installed; blocking for 1+ international calls and any 1+ service that cannot be rated by the phone pay line or any operator service.
- 30.10 For any pay phone line provided to Focal for resale, GTE shall also make available to Focal any future pay phone line option that GTE provides to any of its own customers using such a pay phone line.
- 30.11 GTE shall adhere to the following additional requirements when providing pay phone lines for resale:
- 30.11.1 GTE shall provide Focal with the same call restrictions and fraud protections used by GTE in connection with its pay phones;
- 30.11.2 GTE shall not block Focal's existing access to [NAI] codes;
- 30.11.3 GTE shall forward all Focal pay phone customers to the designated Focal line or trunk group for handling Operator Services or Directory Assistance calls;
- 30.11.4 [Intentionally Deleted]

PART II: UNBUNDLED NETWORK ELEMENTS

31. Introduction

This Part II sets forth the unbundled Network Elements that GTE agrees to offer to Focal in accordance with its obligations under Section 251(c)(3) of the Act and 47 CFR 51.307 to 51.321 of the FCC Rules. The specific terms and conditions that apply to the unbundled Network Elements are described below and in Attachment 2. Prices for Network Elements are set forth in Part V and Attachment 14 of this Agreement.

32. Unbundled Network Elements

- 32.1 GTE will offer Network Elements to Focal on an unbundled basis at rates set forth in Attachment 14.
- 32.2 GTE will permit Focal to interconnect Focal's facilities or facilities provided by Focal or by third parties with each of GTE's unbundled Network Elements at any point designated by Focal that is technically feasible.
- 32.3 Focal, at its option, may designate any technically feasible network interface at a Served Premises, including without limitation, DS0, DS-1, DS-3, and STS-1.
- 32.4 Pursuant to the terms of this Agreement, Focal may use one or more Network Elements to provide any Telecommunications Service that such Network Element is capable of providing.
- 32.5 GTE shall offer each Network Element individually and in combination with any other Network Element or Network Elements, so long as such combination is technically feasible, in order to permit Focal to combine such Network Element or Network Elements with another Network Element or other Network Elements obtained from GTE or with network components provided by itself or by third parties to provide telecommunications services to its customers.
- 32.6 For each Network Element, GTE shall provide a demarcation point (e.g., an interconnection point at a Digital Signal Cross-Connect or Light Guide Cross-Connect panels or a Main Distribution Frame) and, if necessary, access to such demarcation point, which Focal agrees is suitable. However, where GTE provides contiguous Network Elements to Focal, GTE may provide the existing interconnections and no demarcation point shall exist between such contiguous Network Elements.

32.7 [Intentionally deleted].

32.8 [Intentionally deleted].

32.9 Except with respect to the Loop Distribution, Loop Concentrator/Multiplexer, and Loop Feeder elements, which shall in all cases be subject to the bona fide request process described in Attachment 12, set forth below is a list of Network Elements that Focal and GTE have identified as of the Effective Date of this Agreement and will be offered by GTE. Focal and GTE agree that Focal may identify additional or revised Network Elements that it desires. All such additional or modified Network Elements shall be subject to the Bona Fide Requests Procedures outlined in Attachment 12. Descriptions and requirements for each Network Element identified below are set forth in Attachment 2. The Network Elements described in Attachment 2 consist of:

- Loop or Loop Combination
- Network Interface Device (NID)
- Loop Distribution, otherwise known as Distribution Media
- Loop Concentrator/Multiplexer
- Loop Feeder
- Local Switching
- Operator Service
- Directory Assistance Service
- Common Transport
- Dedicated Transport
- Signaling Link Transport
- Signaling Transfer Points
- Service Control Points (SCPs)/Databases
- Tandem Switching
- Unused Transmission Media

32.10 **Standards for Network Elements**

32.10.1 [Intentionally Deleted]

32.10.2 [Intentionally left blank]

32.10.3 [Intentionally Deleted]

32.10.3.1 If Focal contends that GTE has failed to meet the requirements of this Section 32, Focal will provide GTE documentation of such purported failure. Within a reasonable time period after receiving such documentation, GTE shall provide to Focal engineering, design, performance and other network data that the parties mutually

agree is necessary and sufficient for Focal to determine that the requirements of this Section 32 are being met. In the event that such data establishes that the requirements of this Section 32 are not being met, GTE shall, within ten (10) business days, cure any design, performance or other deficiency and provide new data that the parties mutually agree is sufficient for Focal to determine that such deficiencies have been cured. To the extent that GTE is unable to meet the above timeframe, GTE shall promptly notify Focal prior to the expiration of such timeframe and the Parties shall agree on a revised completion date.

32.10.3.2 [Intentionally deleted].

32.10.4 [Intentionally Deleted].

PART III: ANCILLARY FUNCTIONS

33. **Introduction**

This Part III sets forth the Ancillary Functions that GTE agrees to offer to Focal so that Focal may interconnect to GTE's network and obtain access to unbundled Network Elements to use to provide services to its customers.

34. **GTE Provision of Ancillary Functions**

34.1 [Intentionally deleted].

34.2 GTE will permit Focal to interconnect Focal's equipment and facilities or equipment and facilities provided by Focal or by third parties for purposes of interconnection or access to Network Elements at any point that is technically feasible in accordance with the terms and conditions of this Agreement.

34.3 Pursuant to the terms of this Agreement, Focal may use any Ancillary Function to provide any Telecommunications Service that such Ancillary Function is capable of providing.

34.4 Set forth below is the list of the Ancillary Functions that Focal and GTE have identified as of the Effective Date of this Agreement. Either Party may identify additional or revised Ancillary Functions that it desires. All such additional or revised Ancillary Functions shall be subject to the Bona Fide Requests procedures outlined in Attachment 12. Descriptions and requirements for each Ancillary Function are set forth in Attachment 3. The Ancillary Functions described in Attachment 3 consist of:

Collocation
Right of Way (ROW)
Conduit
Pole attachment

35. **Standards for Ancillary Functions**

35.1 Subject to Section 23.19, each Ancillary Function shall meet or exceed the requirements set forth in applicable technical references, as well as the performance and other requirements, identified in this Agreement.

35.2 Each Ancillary Function provided by GTE to Focal shall be equal in the quality of design, performance, features, functions and other

characteristics, including, but not limited to levels and types of redundant equipment and facilities for diversity and security, that GTE provides in the GTE network to itself, its affiliates or any other carrier.

- 35.3 If Focal contends that GTE has failed to meet the requirements of Part III and Attachment 3, Focal will provide GTE documentation of such purported failure. Within a reasonable time period after receiving such documentation, GTE shall provide to Focal engineering, design, performance and other network data that the parties mutually agree is necessary and sufficient for Focal to determine that the requirements of Part III and Attachment 3 of this Agreement are being met. In the event that such data establishes that the requirements of Part III and Attachment 3 of this Agreement are not being met, GTE shall, within 30 business days, cure any design, performance or other deficiency and provide new data that the parties mutually agree is sufficient for Focal to determine that such deficiencies have been cured. To the extent that GTE is unable to meet the above timeframe, GTE shall promptly notify Focal prior to the expiration of such timeframe and the Parties shall agree on a revised completion date.
- 35.4 Unless otherwise designated by Focal, each Ancillary Function provided by GTE to Focal shall be made available to Focal on a priority basis that is at least equal to the priorities that GTE provides to itself, its affiliates or any other carrier.
- 35.5 (Intentionally deleted)

PART IV: INTERCONNECTION PURSUANT TO SECTION 251(C)(2)

36. **Scope**

Section 37 describes the physical architecture for Interconnection of the Parties' facilities and equipment for the transmission and routing of Local Traffic and Exchange Access traffic between the respective business and residential customers of the Parties pursuant to the Act. Interconnection may not be used solely for the purpose of originating a Party's own interexchange traffic. Sections 38 to 39 prescribe the specific logical trunk groups (and traffic routing parameters) which will be configured over the physical Interconnections described in this Part related to the transmission and routing of Local Traffic and Exchange Access traffic, respectively. Other trunk groups, as described in this Agreement, may be configured using this architecture.

37. **Interconnection Points and Methods.**

37.1 In each LATA identified pursuant to the procedures of Section 37.6, Focal and GTE shall Interconnect their networks at the GTE and Focal Wire Centers identified in such notice for the transmission and routing within that LATA of Local Traffic and Exchange Access traffic.

37.2 Interconnection in each LATA shall be accomplished at any technically feasible point within GTE's networks for a given LATA, including through collocation in GTE's Wire Centers as provided in Attachment 3. Focal shall designate a minimum of one interconnection point within a LATA. If Focal desires a single interconnection point within a LATA, Focal shall ensure that GTE maintains the ability to bill for the services provided. Focal may interconnect at one tandem in the LATA for exchange of local, mandatory EAS and IntraLATA toll traffic by bringing separate trunk groups to that interconnection point for each tandem in that LATA and then by using dedicated special access transport to extend the trunk group from the interconnection point to the designated tandem.

37.3 **Interconnection using Collocation:**

If the Parties Interconnect their networks using Collocation in GTE's Wire Centers, the following requirements apply:

- 37.3.1 Focal will deploy a local service network that places switching and transmission equipment throughout the LATA. The placement of this equipment uses a combination of Focal owned Wire Centers and collocated space in GTE Wire Centers.
- 37.3.2 Focal will request interconnection with GTE at specific points in GTE's network. The following options are available for (i) the termination of traffic to the GTE network, (ii) the termination of traffic to the Focal network and (iii) the transiting of traffic to/from a third party network.

37.4 Local Traffic and IntraLATA Toll Traffic - Originating on Focal, Terminating on GTE.

Focal may build trunk groups to GTE using the following representative, but not exclusive, options: (i) from Focal collocated equipment in a Wire Center to the GTE Tandem; (ii) from Focal collocated equipment in a GTE Wire Center to the GTE End Office Switch; or (iii) from Focal 4ESS Switches located at Focal POPs to the nearest GTE Tandem.

Interfaces for these interconnections may be based upon, but not limited to, the following: (i) DS1: from an Focal-collocated DDM-2000 to a GTE Central Office Switch; (ii) SONET STS1: from an Focal-collocated DDM-2000 to an GTE 5ESS[®]-2000 Central Office Switch and (iii) DS1/DS3: from an Focal 4ESS Switch at an Focal POP to a GTE Tandem using new trunk groups on existing facilities.

37.5 Transit Service Traffic

- 37.5.1 GTE agrees that it shall provide Transit Service to Focal on terms and conditions set forth in this Agreement.
- 37.5.2 "Transit Service" means the delivery of certain traffic between Focal and a third party LEC or ILEC by GTE over the Local/IntraLATA Trunks. The following types of traffic will be delivered: (i) Local Traffic and IntraLATA Toll Traffic originated from Focal to such third party LEC or ILEC and (ii) Local Traffic and IntraLATA Toll Traffic originated from such third party LEC or ILEC and terminated to Focal where GTE carries such traffic pursuant to the Commission's primary toll carrier plan or other similar plan.
- 37.5.3 While the Parties agree that it is the responsibility of each third party LEC or ILEC to enter into arrangements to deliver Local Traffic between them, they acknowledge that such arrangements are not currently in place and an interim arrangement is necessary to ensure

traffic completion. Accordingly, until the earlier of (i) the date on which either Party has entered into an arrangement with such third party LEC or ILEC to deliver Local Traffic via direct trunks or (ii) the termination of this Agreement, GTE will transit such traffic.

37.5.4 All networks involved in transit traffic will deliver each call to each involved network with CCIS to the extent available from third party LECs and the appropriate Transaction Capabilities Application Part (TCAP) messages to facilitate full interoperability and billing functions. In all cases, each Party is responsible to follow Exchange Message Record ("EMR") standard and exchange records with both the other Party and the terminating LEC or ILEC to facilitate the billing process to the originating network.

37.5.5 Transiting traffic will be delivered using the physical connection options as described in Section 37.4.

37.6 Selection of LATAs

37.6.1 If Focal determines to offer Telephone Exchange Services in any LATA, Focal shall provide written notice to GTE of its need to establish Interconnection in such LATA pursuant to this Agreement. This notice shall include (i) the Wire Centers that Focal has designated in the LATA, and; (ii) a nonbinding forecast of Focal's trunking requirements indicating the proposed Interconnection Activation Date. Focal shall issue an ASR to GTE in accordance with Section 37.6.3 to order the Interconnection facilities and trunks.

37.6.2 Unless otherwise agreed by the Parties, the Parties shall designate the Wire Center Focal has identified as its initial Routing Point in the LATA as the ATIWC in that LATA and shall designate the GTE Tandem Office within the LATA nearest to the ATIWC (as measured in airline miles utilizing the V&H coordinates method) as the AIWC in that LATA.

37.6.3 Unless otherwise agreed by the Parties, the Interconnection Activation Date in each LATA in which no construction is required shall be fifteen (15) business days after the date on which Focal delivered notice via an ASR to GTE pursuant to this Section. Where construction is required, the Interconnection Activation Date shall be as mutually agreed by the Parties.

37.6.4 GTE and Focal will conduct joint planning sessions to determine the following representative, but not exclusive, information: (i) forecasted number of trunk groups; and (ii) the interconnection activation date.

37.7 Additional Switches or Interconnection Points

If Focal deploys additional switches in a LATA after the date hereof or otherwise wishes to establish Interconnection with additional GTE Wire Centers, Focal may, upon written notice thereof to GTE, establish such Interconnection and the terms and conditions of this Agreement shall apply to such Interconnection. If GTE deploys additional switches in a LATA after the date hereof or otherwise wishes to establish Interconnection with additional Focal Wire Centers, GTE may, upon written notice thereof to Focal, establish such Interconnection and the terms and conditions of this Agreement shall apply to such Interconnection. If either Party establishes an additional Tandem Switch in a given LATA, the Parties shall jointly determine the requirements regarding the establishment and maintenance of separate trunk group connections and the sub-tending arrangements relating to Tandem Switches and End Offices which serve the other Party's customers within the Exchange Areas served by such Tandem Switches.

37.8 Nondiscriminatory Interconnection

Interconnection provided by GTE shall be equal in quality to that provided by GTE to itself or any subsidiary, Affiliate or other person. "Equal in quality" means the same or equivalent technical criteria, service standards that a Party uses within its own network and, at a minimum, requires GTE to design interconnection facilities to meet the same technical criteria and service standards that are used within GTE's network. If Focal requests an Interconnection that is of a higher quality than that provided by GTE to itself or any subsidiary, Affiliate or other person, such request shall be treated as a New Bona Fide Request.

37.9 Technical Specifications

37.9.1 Each Party shall initially configure a two-way trunk group as a direct transmission path between each Focal and GTE interconnected Central Offices. Focal and GTE shall work cooperatively to install and maintain a reliable network. Focal and GTE shall exchange appropriate information (e.g., maintenance contact numbers, network information, information required to comply with law enforcement and other security agencies of the government and such other information as the Parties shall mutually agree) to achieve this desired reliability.

37.9.2 Focal and GTE shall work cooperatively to apply sound network management principles by invoking network management controls to alleviate or to prevent congestion.

37.10 911/E911 Arrangements

37.10.1 Description of Service

Focal shall have the right to utilize the existing GTE 911/E911 infrastructure (as agreed in Sections 37.10.3 and 37.10.5 below) to provide all 911/E911 capabilities to its end users. Focal will install a minimum of two dedicated trunks to GTE's 911/E911 selective routers (i.e., 911 tandem offices) that serve the areas in which Focal provides Exchange Services, for the provision of 911/E911 services and for access to all subtending PSAPs. The dedicated trunks shall be, at minimum, DSO level trunks configured as a 2-wire analog interface or as part of a digital (1.544 Mbps) interface. Either configuration shall use CAMA type signaling with multifrequency (MF) tones that will deliver ANI with the voice portion of the call. At the request of Focal, GTE will provide Focal with the appropriate CLLI codes and specifications of the tandem office serving area. If an Focal Central Office serves end users in an area served by more than one GTE 911/E911 selective router, Focal will install a minimum of two dedicated trunks in accordance with this section to each of such 911/E911 selective routers.

37.10.2 Transport

If Focal desires to obtain transport from its end office to the GTE 911 selective routers, Focal may purchase such transport from GTE at the rates set forth in GTE's intrastate switched access tariff or in GTE's intrastate special access tariff.

37.10.3 Cooperation and Level of Performance

37.10.3.1 The Parties agree to provide access to 911/E911 in a manner that is transparent to the end user. The Parties will work together to facilitate the prompt, reliable and efficient interconnection of Focal's systems to the 911/E911 platforms to ensure that 911/E911 service is fully available to Focal's end users, with a level of performance that will provide the same grade of service as that which GTE provides to its own end users and that meets State requirements. To this end, GTE will provide documentation to Focal showing the correlation of its rate centers to its E911 tandems.

- 37.10.3.2 In the event of an GTE or Focal 9 1 1 trunk group failure, the Party that owns the trunk group will notify, on a priority basis, the other Party of such failure, which notification shall occur within two (2) hours of the occurrence or sooner if required under Applicable Law. The Parties will exchange a list containing the names and telephone numbers of the support center personnel responsible for maintaining the 9 1 1 Service between the Parties.
- 37.10.3.3 When Focal purchases transport, GTE will provide Focal with the order number and the circuit identification code in advance of the service due date.
- 37.10.3.4 Focal or its third party agent will provide CNA data to GTE for use in entering the data into the 9 1 1 data base. The initial CNA data will be provided to GTE in a format prescribed by NENA (National Emergency Number Association). Focal is responsible for providing GTE updates to the CNA data and error corrections which may occur during the entry of CNA data to the GTE 9 1 1 Database System. GTE will confirm receipt of such data and corrections by close of business on the next Business Day by providing Focal with a report of the number of items sent, the number of items entered correctly, and the number of errors.
- 37.10.3.5 Focal will monitor the 9 1 1 circuits for the purpose of determining originating network traffic volumes. Focal will notify GTE if the traffic study information indicates that additional circuits are required to meet the current level of 9 1 1 call volumes.
- 37.10.3.6 [Intentionally deleted.]
- 37.10.3.7 Inter-office trunks provided for 911 shall be engineered to assure minimum P.01 transmission grade of service as measured during the busy day/busy hour. A minimum of two trunks shall be provided by Focal.

37.10.4 Updates to MSAG

It shall be the responsibility of Focal to ensure that the address of each of its end users is included in the Master Street Address Guide ("MSAG") via information provided on Focal's Local Service Request ("LSR") or via a separate feed established by Focal and GTE pursuant to section 37.10.5 of this Article. Any MSAG change that appears to be required by Focal must be approved by the County. Within thirty (30) days after the Effective Date of this Agreement, GTE shall provide Focal with an initial electronic copy and a paper copy of the MSAG or its equivalent. Prior to the time that updates

are available electronically, GTE will provide updates to Focal on a monthly basis. Thereafter, GTE will provide updates to Focal as changes are made.

37.10.5 Updates to Database

GTE and Focal will work together to develop the process by which the 911/E911 database will be updated with Focal's end user 911/E911 information. Focal shall have the right to verify the accuracy of the information regarding Focal's end users in the 911/E911 database.

37.10.6 Compensation

In situations in which GTE is responsible for maintenance of the 911/E911 database and can be compensated for maintaining Focal's information by the municipality, GTE will seek such compensation from the municipality. GTE will seek compensation from Focal only if and to the extent that GTE is unable to obtain such compensation from the municipality.

38. Transmission and routing of telephone exchange service traffic pursuant to section 251(c)(2)

38.1 Scope of Traffic

This Section prescribes parameters for trunk groups (the "Local/IntraLATA Trunks") to be effected over the Interconnections specified in Part IV for the transmission and routing of Local Traffic and IntraLATA Toll Traffic between the Parties' respective Telephone Exchange Service Customers.

38.2 Limitations

No Party shall terminate Exchange Access traffic or originate untranslated 800/888 traffic over Local/IntraLATA Interconnection Trunks.

38.3 Trunk Group Architecture and Traffic Routing

The Parties shall jointly engineer and configure Local/IntraLATA Trunks over the physical Interconnection arrangements as follows:

- 38.3.1 Notwithstanding anything to the contrary contained in this Section, if the traffic volumes between any two Central Office Switches at any time exceeds the CCS busy hour equivalent of one DS1, the Parties

shall within sixty (60) days after such occurrence establish new direct trunk groups to the applicable End Office(s) consistent with the grades of service and quality parameters set forth in the Grooming Plan.

- 38.3.2 Only those valid NXX codes served by an End Office may be accessed through a direct connection to that End Office.
- 38.3.3 Each Party shall ensure that each Tandem connection permits the completion of traffic to all End Offices which sub-tend that Tandem or to End Offices which sub-tend an additional Tandem, provided, that Focal enters into an appropriate billing arrangement pursuant to Section 38.3.4. Alternatively, each Party shall establish and maintain separate trunk groups connected to each Tandem of the other Party which serves, or is sub tended by End Offices which serve, such other Party's customers within the Exchange Areas served by such Tandem Switches.
- 38.3.4 GTE will provide tandem to tandem switching to Focal. Focal shall enter into an appropriate billing arrangement with GTE to ensure recovery of inter-tandem switching costs at rates established by the Commission.

38.4 **Signaling**

SS7 Signaling may be used for signaling for IntraLATA and local calls between Focal switches, between Focal switches and GTE switches, and between Focal switches and those third party networks with which GTE's SS7 network is interconnected.

- 38.4.1 Where available, CCIS signaling shall be used by the Parties to set up calls between the Parties' local networks. Each Party shall supply Calling Party Number (CPN) within the SS7 signaling message, if available. If Common Channel Interoffice Signaling ("CCIS") is unavailable, MF (Multi-Frequency) signaling shall be used by the Parties.
- 38.4.2 Each Party is responsible for requesting Interconnection to the other Party's CCIS network, where SS7 signaling on the trunk group(s) is desired. Each Party shall connect, either directly or via arrangements with third party providers, to a pair of access STPs where traffic will be exchanged. The Parties shall establish interconnection at the STP.

- 38.4.3 The Parties will cooperate on the exchange of Transactional Capabilities Application Part (TCAP) messages to facilitate interoperability of CCIS based features between their respective networks, including all CLASS features and functions, to the extent each Party offers such features and functions to its Customers. Each Party shall honor all privacy indicators as required under Applicable Law.
- 38.4.4 Where available and upon the request of the other Party, each Party shall cooperate to ensure that its trunk groups are configured utilizing the B8ZS ESF protocol for 64 kbps clear channel transmission to allow for ISDN interoperability between the Parties' respective networks.
- 38.5 **Grades of Service**
- The Parties shall initially engineer and shall jointly monitor and enhance all trunk groups consistent with the Grooming Plan.
- 38.6 **Measurement and Billing**
- 38.6.1 Each Party shall pass Calling Party Number (CPN) information on each call that it originates and terminates over the Local/IntraLATA Trunks. Until GTE installs the capability to use actual CPN information, all calls exchanged shall be billed either as Local Traffic or IntraLATA Toll Traffic based upon a percentage of local usage (PLU) factor calculated based on the amount of actual volume (or best estimate) during the preceding three months. The PLU will be reevaluated every three (3) months.
- 38.6.2 Measurement of Telecommunications traffic billed hereunder shall be (i) in actual conversation time as specified in FCC terminating FGD Switched access tariffs for Local Traffic and (ii) in accordance with applicable tariffs for all other types of Telecommunications traffic.
- 38.7 **Reciprocal Compensation Arrangements**
- Reciprocal Compensation for the exchange of traffic shall be paid as described in Part V and Attachment 15, at the prices specified in Attachment 14.
- 38.8 **Transiting Traffic**
- 38.8.1 The exchange of transiting traffic is defined in Section 37.5.2.

38.8.2 Compensation for transiting traffic shall be paid as described in Part V and Attachment 15, at the prices specified in Attachment 14.

39. Transmission and Routing of Exchange Access Traffic

39.1 Scope of Traffic

This Section prescribes parameters for certain trunk groups ("Access Toll Connecting Trunks") to be established over the Interconnections specified in this Agreement for the transmission and routing of Exchange Access traffic and nontranslated 800 traffic between Focal Telephone Exchange Service Customers and Interexchange Carriers.

39.2 Trunk Group Architecture and Traffic Routing

39.2.1 The Parties shall jointly establish Access Toll Connecting Trunks by which they will jointly provide Tandem transported Switched Exchange Access Services to Interexchange Carriers to enable such Interexchange Carriers to originate and terminate traffic from and to Focal's customers.

39.2.2 Access Toll Connecting Trunks shall be used solely for the transmission and routing of Exchange Access and nontranslated 800/888 traffic to allow Focal's customers to connect to or be connected to the interexchange trunks of any Interexchange Carrier which is connected to a GTE access Tandem.

39.2.3 The Access Toll Connecting Trunks shall be two way trunks connecting an End Office Switch that Focal utilizes to provide Telephone Exchange Service and Switched Exchange Access Service in a given LATA to an access Tandem Switch GTE utilizes to provide Exchange Access in such LATA.

39.2.4 The Parties shall jointly determine which GTE access Tandem(s) will be sub-tended by each Focal End Office Switch.

39.2.5 Only those valid NXX codes served by an End Office may be accessed through a direct connection to that End Office.

40. Transport and Termination of Information Services Traffic

40.1 Each Party shall route Information Service Traffic which originates on its own network to the appropriate information services platform(s) connected to the other Party's network over the Local/IntraLATA Trunks.

- 40.2 The Party ("Originating Party") on whose network the Information Services Traffic originated shall provide an electronic file transfer or monthly magnetic tape containing recorded call detail information to the Party ("Terminating Party") to whose information platform the Information Services Traffic terminated.
- 40.3 The Terminating Party shall provide to the Originating Party via electronic file transfer or magnetic tape all necessary information to rate the Information Services Traffic to the Originating Party's customers and establish uncollectible reserves pursuant to the Terminating Party's agreements with each information provider.
- 40.4 The Originating Party shall bill and collect such information provider charges and remit the amounts collected to the Terminating Party less:
- 40.4.1 The Information Services Billing and Collection fee set forth in Attachment 14; and
- 40.4.2 An uncollectibles reserve calculated based on the uncollectibles reserve in the Terminating Party's billing and collection agreement with the applicable information provider; and
- 40.4.3 Customer adjustments provided by the Originating Party.
- 40.5 The Originating Party shall provide to the Terminating Party sufficient information regarding uncollectibles and customer adjustments. The Terminating Party shall pass through the adjustments to the information provider. Final resolution regarding all disputed adjustments shall be solely between the Originating Party and the information provider.
- 40.6 Nothing in this Agreement shall restrict either Party from offering to its Telephone Exchange Service Customers the ability to block the completion of Information Service Traffic.

41. Installation, Maintenance, Testing and Repair

41.1 Grooming Plan

Within ninety (90) days after the Effective Date, Focal and GTE shall jointly begin the development of a plan (the "Grooming Plan") which shall define and detail, inter alia, (i) standards to ensure that Interconnection trunk groups experience a grade of service, availability and quality in accord with all appropriate relevant industry-accepted quality, reliability and availability standards and in

accordance with the levels GTE provides to itself, or any subsidiary, Affiliate or other person; (ii) the respective duties and responsibilities of the Parties with respect to the administration and maintenance of the Interconnections (including signaling) specified in Part IV and the trunk groups specified in Part IV, including standards and procedures for notification and discoveries of trunk disconnects; (iii) disaster recovery and escalation provisions; and (iv) such other matters as the Parties may agree.

41.2 **Operation and Maintenance**

Each Party shall be solely responsible for the installation, operation and maintenance of equipment and facilities provided by it for Interconnection, subject to compatibility and cooperative testing and monitoring and the specific operation and maintenance provisions for equipment and facilities used to provide Interconnection. Operation and maintenance of equipment in Virtual Collocation shall be in accordance with the provisions of Attachment 3. Each party shall also be responsible for engineering and maintaining its network on its side of the interconnection point. If and when the Parties choose to interconnect at a mid-span meet, the Parties will jointly provision the fiber optic facilities that connect the two networks and shall share the financial and other responsibilities for those facilities.

PART V: PRICING

42. General Principles

All services currently provided hereunder including resold Local Services , Network Elements and Combinations, Interconnection and any new and additional services or Network Elements to be provided hereunder shall be priced in accordance with all applicable provisions of the Act and the rules and orders of the FCC and any state public utility commission having jurisdiction over this Agreement.

43. Price Schedules

43.1 Local Service Resale

The prices to be charged to Focal for Local Services shall be as specified in Attachment 14.

43.2 Unbundled Network Elements

The prices charged to Focal for Unbundled Network Elements shall be as specified in Attachment 14 and shall be nondiscriminatory.

43.2.1 If implementation of an unbundled loop feeder supports shared use of required unbundling facilities, the cost of such facilities shall be allocated and prorated among all users in a non-discriminatory and competitively neutral manner. If such implementation supports only Focal's use, then Focal shall pay to GTE the incremental cost of such implementation.

43.2.2 If implementation of an unbundled loop concentrator /multiplexer element supports shared use of required unbundling facilities, the cost of such facilities shall be allocated and prorated among all users in a non-discriminatory and competitively neutral manner. If implementation supports only Focal's use, then Focal shall pay to GTE the incremental cost of such implementation.

43.2.3 Focal will be responsible for the costs (if any) required to create an interface at the main distribution frame if such interface does not already exist, such as in the case of an Integrated Digital Loop Carrier System.

43.3 Interconnection

43.3.1 Reciprocal Compensation applies for transport and termination of Local Traffic billable by GTE or Focal which a Telephone Exchange Service Customer originates on GTE's or Focal's network for termination on the other Party's network. Reciprocal Compensation for exchange of traffic shall initially be paid on a "bill and keep" basis subject to the right of either Party to demand that compensation be calculated based upon actual local exchange traffic volumes as further specified in Attachment 14.

43.3.2 The Reciprocal Compensation arrangements set forth in this Agreement are not applicable to Switched Exchange Access Service. All Switched Exchange Access Service and all IntraLATA Toll Traffic shall continue to be governed by the terms and conditions of the applicable federal and state tariffs.

43.3.3 Each Party shall charge the other Party its effective tariffed intraLATA FGD switched access rates for the transport and termination of all IntraLATA Toll Traffic.

43.3.4 Standard meet point billing arrangements, as defined in Attachment 6, shall apply when the completion of a toll call involves both GTE and Focal facilities, as further described in Attachment 6.

43.3.5 To compensate Focal for applicable access revenues associated with terminating interLATA or intraLATA toll calls to Focal subscribers whose telephone numbers have been ported from GTE, GTE shall pay Focal seventy percent (70%) of the terminating access revenues as determined on a LATA basis by the following formulae. Such formulae shall be updated on a quarterly basis at the request of either Party.

43.3.5.1 the product of (total terminating access revenues for business customers) divided by (the number of business subscriber lines) multiplied by (the number of business lines ported to Focal); and

43.3.5.2 the product of (total terminating access revenues for residential customers) divided by (the number of residential subscriber lines) multiplied by (the number of residential lines ported to Focal).

43.3.6 Transiting Traffic

The following applies to all scenarios with transiting traffic.

- 43.3.6.1 Focal shall pay to GTE a Transiting Service Charge for the use of its Tandem Switching as specified in Attachment 14.
- 43.3.6.2 Until such time as Focal and the third party LEC or ILEC agree upon mutual compensation, third party mutual compensation will be exchanged between Focal and GTE as follows:
- 43.3.6.3 [Intentionally deleted.]
- 43.3.6.4 [Intentionally deleted.]
- 43.3.6.5 GTE will provide tandem switching at GTE access tandems for traffic between Focal and GTE end offices subtending the GTE access tandem, as well as for traffic between Focal and non-GTE end offices subtending GTE access tandems. By transporting traffic to a non-GTE end office(s) via a GTE tandem, Focal assumes responsibility for compensation to GTE for all tandem switched traffic between Focal and the non-GTE end office(s). This responsibility may be fulfilled either by payment by Focal to GTE for all tandem switched traffic between Focal and the non-GTE end office(s) or by an agreement between Focal and the non-GTE end office LEC pursuant to which GTE is expressly made a third party beneficiary and GTE would receive compensation from either Focal or the non-GTE end office LEC, depending upon which entity originated the traffic. GTE will bill Focal for each minute of use Focal generates that is tandem switched.
- 43.3.6.6 By transporting traffic to non-GTE end offices via a GTE tandem, Focal assumes responsibility for compensation to the non-GTE end office company. Focal assumes responsibility for negotiating a compensation arrangement with the non-GTE end office for IntraLATA Toll Traffic terminating to Focal from such third party LEC or ILEC.

In witness whereof, the Parties have executed this Agreement through their authorized representatives.

GTE Northwest Incorporated

Focal Communications Corporation of
Washington

By: _____
Signature

By: _____
Signature

Name

Name

Title

Title

Date

Date

ATTACHMENT 1

ALTERNATIVE DISPUTE RESOLUTION

TABLE OF CONTENTS

1. PURPOSE 1

2. EXCLUSIVE REMEDY 1

3. INFORMAL RESOLUTION OF DISPUTES 2

4. INITIATION OF AN ARBITRATION 3

5. GOVERNING RULES FOR ARBITRATION 3

6. APPOINTMENT AND REMOVAL OF ARBITRATOR 3

7. DUTIES AND POWERS OF THE ARBITRATOR 4

8. DISCOVERY 5

9. PRIVILEGES 5

10. LOCATION OF HEARING 5

11. DECISION 5

12. FEES 6

13. CONFIDENTIALITY 6

14. SERVICE OF PROCESS 6

Appendix 1 Procedures for Resolution of Service-Affecting Disputes

ALTERNATIVE DISPUTE RESOLUTION

1. Purpose

This Attachment 1 is intended to provide for the expeditious, economical, and equitable resolution of disputes between GTE and arising under this Agreement, and to do so in a manner that permits uninterrupted, high quality services to be furnished to each Party's customers.

2. Exclusive Remedy

2.1 Negotiation and arbitration under the procedures provided herein shall be the exclusive remedy for all disputes between GTE and arising out of this Agreement or its breach. GTE and agree not to resort to any court, agency, or private group with respect to such disputes except in accordance with this Attachment.

2.1.1 If, for any reason, certain claims or disputes are deemed to be non-arbitrable, the non-arbitrability of those claims or disputes shall in no way affect the arbitrability of any other claims or disputes.

2.1.2 If, for any reason, the FCC or any other federal or state regulatory agency exercises jurisdiction over and decides any dispute related to this Agreement or to any GTE Tariff and, as a result, a claim is adjudicated in both an agency proceeding and an arbitration proceeding under this Attachment 1, the following provisions shall apply:

2.1.2.1 To the extent required by law, the agency ruling shall be binding upon the parties for the limited purposes of regulation within the jurisdiction and authority of such agency.

2.1.2.2 The arbitration ruling rendered pursuant to this Attachment 1 shall be binding upon the parties for purposes of establishing their respective contractual rights and obligations under this Agreement, and for all other purposes not expressly precluded by such agency ruling.

2.1.3 Nothing in this Attachment 1 shall limit the right of either GTE or to obtain provisional remedies (including injunctive relief) from a court before, during or after the pendency of any arbitration proceeding brought pursuant to this Attachment 1. However, once a decision is reached by the Arbitrator, such decision shall supersede any provisional remedy.

3. **Informal Resolution of Disputes**

3.1 Prior to initiating an arbitration pursuant to the American Arbitration Association ("AAA") rules, as described below, the Parties to this Agreement shall submit any dispute between GTE and for resolution to an Inter-Company Review Board consisting of one representative from at the Director-or-above level and one representative from GTE at the Vice-President-or-above level (or at such lower level as each Party may designate). The dispute will be submitted by either Party giving written notice to the other Party, consistent with the notice requirements of this Agreement, that the Party intends to initiate the Informal Resolution of Disputes process. The notice shall define the dispute to be resolved. The Parties may use a mediator to help informally settle a dispute. The initial representatives of each Party shall be as follows:

Focal

Telephone: _____
Telecopier: _____

GTE

Telephone: _____
Telecopier: _____

A representative shall be entitled to appoint a delegee to act in his or her place as a Party's representative on the Inter-Company Review Board for any specific dispute brought before the Board.

3.2 The Parties may enter into a settlement of any dispute at any time. The Settlement Agreement shall be in writing, and shall identify how the Arbitrator's or mediator's fee for the particular proceeding, if any, will be apportioned.

3.3 At no time, for any purposes, may a Party introduce into evidence or inform the Arbitrator appointed under Section 6 below of any statement or other action of a Party in connection with negotiations between the Parties pursuant to the Informal Resolution of Disputes provision of this Attachment 1.

- 3.4 By mutual agreement, the Parties may agree to submit a dispute to mediation prior to initiating arbitration.

4. **Initiation of an Arbitration**

If the Inter-Company Review Board is unable to resolve a non-service affecting dispute within 30 days (or such longer period as agreed to in writing by the Parties) of such submission, and the Parties have not otherwise entered into a settlement of their dispute, the Parties shall initiate an arbitration in accordance with the AAA rules. Any dispute over a matter which directly affects the ability of a Party to provide high quality services to its customers will be governed by the procedures described in Appendix 1 to this Attachment 1.

5. **Governing Rules for Arbitration**

The rules set forth below and the rules of Commercial Arbitrations of the AAA shall govern all arbitration proceedings initiated pursuant to this Attachment; however, such arbitration proceedings shall not be conducted under the auspices of the AAA unless the Parties mutually agree. Where any of the rules set forth herein conflict with the rules of the AAA, the rules set forth in this Attachment shall prevail.

6. **Appointment and Removal of Arbitrator**

- 6.1 Within forty-five (45) days following the Effective Date of this Agreement the Parties will appoint three arbitrators, each of whom will have experience in the field of telecommunications. Each such Arbitrator shall serve for the full term of this Agreement, unless removed pursuant to Section 6.3 of this Attachment. Each of the three Arbitrators will be appointed by mutual agreement of the Parties in writing within the aforementioned forty-five day period. Each Arbitrator so appointed shall receive an assignment designation number (1, 2 or 3), and the Arbitrators shall be assigned in that sequence as disputes arise that are subject to this Attachment. In the event that any of the three initial Arbitrators so appointed resigns or is removed pursuant to Section 6.3 of this Attachment, or becomes unable to discharge his or her duties, the Parties shall, by mutual written agreement, appoint a replacement Arbitrator within thirty (30) days after the date of such resignation, removal or disability. All matters pending before the departing Arbitrator shall be reassigned as provided in Section 6.4 of this Attachment; provided however that such matters shall not be assigned to the replacement Arbitrator. New matters will be assigned the replacement Arbitrator in accordance with the procedure set forth herein(above).

- 6.2 For each dispute properly submitted for arbitration under this Attachment, the Parties shall assign a sole Arbitrator from among the three Arbitrators appointed under Section 6.1 in accordance with the assignment sequence described therein. Each such assignment shall be made within ten (10) days of the expiration under Section 4 of this Attachment of the Inter-Company Review Board review period. Insofar as common issues arise concerning more than one Interconnection, Resale and Unbundling Agreement signed between an Affiliate and a GTE Affiliate, the Parties agree that such common issues will be combined and submitted to the same Arbitrator for resolution.
- 6.3 The Parties may, by mutual written agreement, remove an Arbitrator at any time, and shall provide prompt written notice of removal to such Arbitrator. Notwithstanding the foregoing, any Arbitrator may be removed at any time unilaterally by either Party as permitted in the rules of the AAA. Furthermore, upon (30) days' prior written notice to the Arbitrator and to the other Party, a Party may remove an Arbitrator with respect to future disputes which have not been submitted to arbitration in accordance with the requirements of Section 4 of this Attachment 1, as of the date of such notice.
- 6.4 In the event that an Arbitrator resigns or is removed pursuant to Section 6.3 of this Attachment, or becomes unable to discharge his or her duties, or is otherwise unavailable to perform the duties of Arbitrator, any matters then pending before that departing or disabled Arbitrator will be assigned to the incumbent Arbitrator with the next assignment designation number (in ascending order). Such assignment will be made effective by written notice of the Parties to be provided within ten days following the resignation, removal or unavailability that necessitates such reassignment.
- 6.5 In the event that the Parties do not appoint an Arbitrator or replacement Arbitrator within the time periods prescribed in Section 6.1 of this Attachment 1, either Party may apply to AAA for appointment of such Arbitrator. Prior to filing an application with the AAA, the Party filing such application shall provide ten (10) days' prior written notice to the other Party to this Agreement.

7. **Duties and Powers of the Arbitrator**

- 7.1 The Arbitrator shall receive complaints and other permitted pleadings, oversee discovery, administer oaths and subpoena witnesses pursuant to the United States Arbitration Act, hold hearings, issue decisions, and maintain a record of proceedings. The Arbitrator shall have the power to award any remedy or relief that a court with jurisdiction over this Agreement could order or grant, including, without limitation, the awarding of damages, pre-judgment interest, specific performance of any obligation

created under the Agreement, issuance of an injunction, or imposition of sanctions for abuse or frustration of the arbitration process, except that the Arbitrator may not award punitive damages or any remedy rendered unavailable to the Parties pursuant to Section 10.3 of the General Terms and Conditions of this Agreement.

7.2 The Arbitrator shall not have the authority to limit, expand, or otherwise modify the terms of this Agreement.

8. **Discovery**

GTE and shall attempt, in good faith, to agree on a plan for document discovery. Should they fail to agree, either GTE or may request a joint meeting or conference call with the Arbitrator. The Arbitrator shall resolve any disputes between GTE and , and such resolution with respect to the scope, manner, and timing of discovery shall be final and binding.

9. **Privileges**

Although conformity to certain legal rules of evidence may not be necessary in connection with arbitrations initiated pursuant to this Attachment, the Arbitrator shall, in all cases, apply the attorney-client privilege and the work product immunity doctrines.

10. **Location of Hearing**

Unless both Parties agree otherwise, any hearings shall take place in Dallas, Texas.

11. **Decision**

11.1 Except as provided below, the Arbitrator's decision and award shall be final and binding, and shall be in writing and shall set forth the Arbitrator's reasons therefor for decision unless the Parties mutually agree to waive the requirement of a written opinion. Judgment upon the award rendered by the Arbitrator may be entered in any court having jurisdiction thereof. Either Party may apply to the United States District Court for the district in which the hearing occurred for an order enforcing the decision.

11.2 A decision of the Arbitrator shall not be final in the following situations:

- a) a Party appeals the decision to the Commission or FCC, and the matter is within the jurisdiction of the Commission or FCC, provided that the agency agrees to hear the matter;

- b) the dispute concerns the misappropriation or use of intellectual property rights of a Party, including, but not limited to, the use of the trademark, tradename, trade dress or service mark of a Party, and the decision appealed by a Party to a federal or state court with jurisdiction over the dispute.

11.3 Each Party agrees that any permitted appeal must be commenced within thirty (30) days after the Arbitrator's decision in the arbitration proceedings is issued. In the event of an appeal, a Party must comply with the results of the arbitration process during the appeal process.

12. **Fees**

Unless otherwise mutually agreed in writing, each Arbitrator's fees and expenses shall be shared equally between the Parties, provided, however, that in the arbitration of any particular dispute either Party may request that all fees and expenses directly related to that arbitration matter be imposed on the other Party, and the Arbitrator shall have the power to grant such relief, in whole or in part.

13. **Confidentiality**

13.1 GTE, , and the Arbitrator will treat the arbitration proceeding, including the hearings and conferences, discovery, or other related events, as confidential, except as necessary in connection with a judicial challenge to, or enforcement of, an award, or unless otherwise required by an order or lawful process of a court or governmental body.

13.2 In order to maintain the privacy of all arbitration conferences and hearings, the Arbitrator shall have the power to require the exclusion of any person, other than a Party, counsel thereto, or other essential persons.

13.3 To the extent that any information or materials disclosed in the course of an arbitration proceeding contains proprietary or confidential Information of either Party, it shall be safeguarded in accordance with Section 17 of this Agreement. However, nothing in Section 17 of this Agreement shall be construed to prevent either Party from disclosing the other Party's Information to the Arbitrator in connection with or in anticipation of an arbitration proceeding. In addition, the Arbitrator may issue orders to protect the confidentiality of proprietary information, trade secrets, or other sensitive information.

14. **Service of Process**

- 14.1 Service may be made by submitting one copy of all pleadings and attachments and any other documents requiring service to each Party and one copy to the Arbitrator. Service shall be deemed made (i) upon receipt if delivered by hand; (ii) after three (3) business days if sent by first class certified U.S. mail; (iii) the next business day if sent by overnight courier service; (iv) upon confirmed receipt if transmitted by facsimile. If service is by facsimile, a copy shall be sent the same day by hand delivery, first class U.S. mail, or overnight courier service.
- 14.2 Service by to GTE and by GTE to at the address designated for delivery of notices in this Agreement shall be deemed to be service to GTE or , respectively. The initial address for delivery of notices is specified in Subsection 3 above.

Appendix I to Attachment 1

ALTERNATIVE DISPUTE RESOLUTION

Procedure for Resolution of Service-Affecting Disputes

1. Purpose.

This Appendix 1 describes the procedures for an expedited resolution of disputes between GTE and arising under this Agreement which directly affect the ability of a Party to provide uninterrupted, high quality services to its customers and which cannot be resolved using the procedures for informal resolution of disputes contained in Attachment 1 to the Agreement.

Except as specifically provided in this Appendix 1 to Attachment 1, the provisions of Attachment 1 shall apply.

2. Initiation of an Arbitration.

a) If the Inter-Company Review Board is unable to resolve a service affecting dispute within two (2) business days (or such longer period as agreed to in writing by the Parties) of such submission, and the Parties have not otherwise entered into a settlement of their dispute, a Party may initiate an arbitration in accordance with the requirements of this Appendix 1 to Attachment 1. However, in the sole discretion of the Party which submitted the dispute to the Inter-Company Review Board, the dispute may be arbitrated in accordance with the general procedures described in Attachment 1 rather than the expedited procedures of this Appendix 1 to Attachment 1.

b) A proceeding for arbitration will be commenced by a Party ("Complaining Party") filing a complaint with the Arbitrator and simultaneously serving a copy on the other Party ("Complaint").

c) Each Complaint will concern only the claims relating to an act or failure to act (or series of related acts or failures to act) of a Party which affect the Complaining Party's ability to offer a specific service (or group or related services) to its customers.

A Complaint may be in letter or memorandum form and must specifically describe the action or inaction of a Party in dispute and identify with particularity how the complaining Party's service to its customers is affected.

3. Response to Complaint.

A response to the Complaint must be filed within five (5) business days after service of the Complaint.

4. Reply to Complaint.

A reply is permitted to be filed by the Complaining Party within three (3) business days of service of the response. The reply must be limited to those matters raised in the response.

5. Discovery.

The Parties shall cooperate on discovery matters as provided in Section 8 of Attachment 1, but following expedited procedures.

6. Hearing.

- a) The Arbitrator will schedule a hearing on the Complaint to take place within twenty (20) business days after service of the Complaint. However, if mutually agreed to by the parties, a hearing may be waived and the decision of the Arbitrator will be based upon the papers filed by the Parties.
- b) The hearing will be limited to four (4) days, with each Party allocated no more than two (2) days, including cross examination by the other Party, to present its evidence and arguments. For extraordinary reasons, including the need for extensive cross-examination, the Arbitrator may allocate more time for the hearing.

In order to focus the issues for purposes of the hearing, to present initial views concerning the issues, and to facilitate the presentation of evidence, the Arbitrator has the discretion to conduct a telephone prehearing conference at a mutually convenient time, but in no event later than three (3) days prior to any scheduled hearing.

Each Party may introduce evidence and call witnesses it has previously identified in its witness and exhibit lists. The witness and exhibit lists must be furnished to the other Party at least three (3) days prior to commencement of the hearing. The witness list will disclose the substance of each witness' expected testimony. The exhibit list will identify by name (author and recipient), date, title and any other identifying characteristics the exhibits to be used at the arbitration. Testimony from witnesses not listed on the witness list or exhibits not listed on the exhibit list may not be presented in the hearing.

- c) The parties will make reasonable efforts to stipulate to undisputed facts prior to the date of the hearing.
- d) Witnesses will testify under oath and a complete transcript of the proceeding, together with all pleadings and exhibits, shall be maintained by the Arbitrator.

7. Decision.

- a) The Arbitrator will issue and serve his or her decision on the Parties within five (5) business days of the close of the hearing or receipt of the hearing transcript, whichever is later.
- b) The Parties agree to take the actions necessary to implement the decision of the Arbitrator immediately upon receipt of the decision.

ATTACHMENT 2**SERVICE DESCRIPTION: UNBUNDLED NETWORK ELEMENTS****TABLE OF CONTENTS**

1. <u>INTRODUCTION</u>	1
2. <u>NETWORK INTERFACE DEVICE</u>	1
3. <u>LOOP</u>	3
4. <u>LOCAL SWITCHING</u>	10
5. <u>OPERATOR SERVICES</u>	17
6. <u>DIRECTORY ASSISTANCE SERVICE</u>	20
7. <u>COMMON TRANSPORT</u>	21
8. <u>DEDICATED TRANSPORT</u>	22
9. <u>SIGNALING LINK TRANSPORT</u>	30
10. <u>SIGNALING TRANSFER POINTS (STPS)</u>	32
11. <u>SERVICE CONTROL POINTS/DATABASES</u>	35
12. <u>TANDEM SWITCHING</u>	45
13. <u>ADDITIONAL REQUIREMENTS</u>	48
14. <u>UNUSED TRANSMISSION MEDIA</u>	75

SERVICE DESCRIPTION: UNBUNDLED NETWORK ELEMENTS

1. Introduction

This Attachment sets forth the descriptions and requirements for unbundled network elements that GTE agrees to offer to Focal under this Agreement.

2. Network Interface Device

2.1. Definition:

The Network Interface Device (NID) is a single-line termination device or that portion of a multiple-line termination device required to terminate a single line or circuit. The fundamental function of the NID is to establish the official network demarcation point between a carrier and its end-user customer. The NID generally features two independent chambers or divisions which separate the service provider's network from the customer's inside wiring. Each chamber or division contains the appropriate connection points or posts to which the service provider, and the end-user customer each make their connections. The NID provides a protective ground connection, and is capable of terminating cables such as twisted pair cable. The NID may be ordered as a Network Element independently from the Loop Distribution.

2.1.1. With respect to multiple-line termination devices, Focal shall specify the quantity of NIDs it requires within such device.

Figure 1 - Network Interface Device [Intentionally Deleted]

2.1.2. Technical Requirements

2.1.2.1. The Network Interface Device shall provide a clean, accessible point of connection for the inside wiring and for the Distribution Media and shall maintain a connection to ground that meets the requirements set forth below.

2.1.2.2. The NID shall be capable of transferring electrical analog or digital signals between the customer's inside wiring and the Distribution Media.

2.1.2.3. All NID posts or connecting points shall be in place, secure, usable and free of any rust or corrosion. The protective ground connection

shall exist and be properly installed. The ground wire will also be free of rust or corrosion and have continuity relative to ground.

- 2.1.2.4. The NID shall be capable of withstanding all normal local environmental variations.
- 2.1.2.5. Where the NID is not located in a larger, secure cabinet or closet, the NID shall be protected from physical vandalism. The NID shall be physically accessible to Focal designated personnel and GTE will identify the cable pair used for the particular service which will be replaced by Focal. In cases where entrance to the customer premises is required to give access to the NID, Focal shall obtain entrance permission directly from the customer.
- 2.1.2.6. GTE shall offer the NID together with, and separately from the Loop or Loop Distribution Media component of the Loop.
- 2.1.3. Interface Requirements
- 2.1.3.1. Focal shall be permitted to connect its own Loop directly to GTE's Network Interface Device (NID) in cases in which Focal uses its own facilities to provide local service to an end user formerly served by GTE, as long as such direct connection does not adversely affect GTE's network. In order to minimize any such adverse effects, Focal shall follow the procedures in sub-sections 2.1.3.2 and 2.1.3.3.
- 2.1.3.2. When connecting its own loop facility directly to GTE's NID for a residence or business customer, Focal must make a clean cut on the GTE drop wire at the NID so that no bare wire is exposed. Focal shall not remove or disconnect GTE's drop wire from the NID or take any other action that might cause GTE's drop wire to be left lying on the ground.
- 2.1.3.3. At multi-tenant customer locations, Focal must remove the jumper wire from the distribution block (i.e. the NID) to the GTE cable termination block. If Focal cannot gain access to the cable termination block, Focal must make a clean cut at the closest point to the cable termination block. At Focal's request and discretion, GTE will determine the cable pair to be removed at the NID in multi-tenant locations. Focal will compensate GTE for the trip charge necessary to identify the cable pair to be removed.
- 2.1.3.4. GTE agrees to offer NIDs for lease to Focal, but not for sale. Focal may remove GTE identification from any NID which it connects to

an Focal loop, but Focal may not place its own identification on such NID.

- 2.1.3.5. NID to NID Connection. GTE will not require that a separate NID be installed by Focal in order to make a NID to NID connection. Rather than connecting its loop directly to GTE's NID, Focal may also elect to install its own NID and effect a NID to NID connection to gain access to the end user's inside wiring.
- 2.1.3.6. Removal of Cable Pairs. Removal from the NID of existing cable pairs required for Focal to terminate service is the responsibility of Focal.
- 2.1.3.7. Maintenance / Liability. Sub-paragraphs 2.1.3.8 through 2.1.3.11 outline Focal's responsibilities when leasing NIDs from GTE.
- 2.1.3.8. GTE is responsible for the maintenance of the NID when it is leased as part of the unbundled loop.
- 2.1.3.9. GTE is not responsible for any damage to Focal's customer's interior wiring, station apparatus, or physical harm to the dwelling or persons resulting from over-voltage intrusion from Focal's cable facilities.
- 2.1.3.10. When Focal no longer wishes to lease the GTE NID, Focal is responsible for ensuring that this equipment is left in proper working order.
- 2.1.3.11. When Focal discontinues the use of the NID, GTE will perform a physical inspection of the NID prior to reconnection to a GTE customer and charge Focal for any corrective maintenance which may be required.
- 2.1.4. The Network Interface Device shall be provided to Focal in accordance with the technical references listed in Appendix A, under paragraph 1.

3. Loop

3.1. **Definition:**

A "Loop" is a transmission facility between the main distribution frame (cross-connect), or functionally comparable piece of equipment in a GTE end office or wire center to a demarcation, connector block or network interface device at a customer's premises. Loop types include, but are not limited to, two-wire and

four-wire copper analog voice-grade loops, two-wire and four-wire loops that are conditioned to transmit analog and digital signals, needed to provide, for example, ISDN, ADSL, HDSL, and DS-1 level signals, DS-1 loops, Coax loops and Fiber loops. A Loop is composed of the following Sub-Loop Elements, to the extent that each is physically existent in the LEC network where the Loop is ordered and the Network Interface Device (NID). The Sub-Loop Elements are defined in detail below:

Loop Distribution Media

Loop Concentrator/Multiplexer

Loop Feeder

3.1.1. Requirements:

3.1.1.1. Basic Loop. The Basic Loop is a 2-wire copper facility or functional equivalent which will meet industry standard specifications for Voice Frequency transmission. The Basic Loop may include load coils, bridge taps, etc., or may include carrier derived facility components (i.e. pair gain applications, loop concentrator/multiplexers). The Basic Loop will be designed within industry design parameters with a loop loss (from customer to MDF) which does not exceed 10 dB and with a noise level less than 30 dbrnC. For loaded loops, the Bridge Tap and End section will be between 3 and 12 kFt.

3.1.1.2. Special Conditioning Requirements. The Basic Loop will be provided to Focal at parity with GTE customers and will comply with the specifications noted in this section 3.1, Loop. Transmission of signaling messages or tones not provided by these specifications will be provided to Focal, as agreed between Focal and GTE. When placing an order for unbundled Loop and Sub-Loop elements, Focal will notify GTE of any special requirements. Special conditioning to provide such requirements will be provided on a case-by-case basis, if technically feasible. Focal agrees to bear the cost of any such special conditioning. Types of Loops which may require such conditioning include 2W/4W PABX Trunks, 2W/4W voice grade private line and foreign exchange lines, 4W digital data (2.4Kbps through 64Kbps), etc.

3.1.1.3. ISDN BRI Loops. Upon request by Focal, GTE will provide 2W loops capable of transmitting ISDN data rates, where technically feasible. For Loops up to 18,000 feet from the MDF to the

customer, the Loops will be designed within industry design parameters with a loss not to exceed 42 dB at 40kHz. Bridge taps will not exceed 2,500 feet with no single bridge tap greater than 2,000 feet. Customers located greater than 18,000 feet from the MDF will require special Loop provisioning at an additional charge.

- 3.1.1.4. 4-Wire DS-1 Loops/ISDN PRI. These Loops will be designed to support a digital transmission rate of 1,544, 000 bps. These Loops will be designed within industry parameters and have no bridge taps or load coils. These Loops will employ special line treatment (span line repeaters, office terminating repeaters at the GTE wire center, or similar technology).
- 3.1.1.5. Features, Functions, Attributes, Etc. To the degree possible, all transport-based features, functions, service attributes, grades-of-service, installation, maintenance and repair intervals that apply to the bundled services, will apply to the above unbundled Loop.
- 3.1.1.6. All Loop facilities furnished by GTE on the premises of Focal's end users and up to the network interface or functional equivalent are the property of GTE. GTE must have access to all such facilities for network management purposes. GTE employees and agents may enter said premises at any reasonable hour to test and inspect such facilities in connection with such purposes or, upon termination or cancellation of the Loop facility, to remove such facility.
- 3.1.1.7. If Focal leases Loops which are conditioned to transmit digital signals, as a part of that conditioning, GTE will test the Loop after conditioning and provide recorded test results to Focal. When Focal provides its own switching, it will test the unbundled loops. If there is a maintenance problem on an unbundled loop, Focal will report the problem to GTE, and GTE will be responsible for the repair of the loop. In maintenance and repair cases, if loop tests are taken, GTE will provide any recorded readings to Focal at the time the trouble ticket is closed in the same manner as GTE provides to itself and its end users.
- 3.1.1.8. Focal may order a copper twisted pair Loop even in instances where the Loop for services that GTE offers is other than a copper facility.
- 3.1.2. Unbundled Loop Facility Certification

- 3.1.2.1. Before deploying any service enhancing copper cable technology (e.g., HDSL, ISDN, etc.) over unbundled 2-wire analog voice grade loops provided by GTE, Focal shall notify GTE of such intentions to enable GTE to assess the loop transport facilities to determine whether there are any existing copper cable loop transport technologies (e.g., analog carrier, etc.) deployed within the same cable sheath that would be interfered with if Focal deployed the proposed service enhancing copper cable technology. If there are existing copper cable loop transport technologies already deployed within the same cable sheath, or if GTE already has specific planned projects to deploy copper cable loop transport technologies within the next six months for which it can demonstrate a specific commitment by producing detailed engineering plans, GTE will so inform Focal and Focal shall not be permitted to deploy such service enhancing copper cable technologies.
- 3.1.2.1.1. If Focal fails to notify GTE of its plans to deploy service enhancing copper cable technology and obtain prior certification from GTE of the facilities, and if Focal's deployment of such technology is determined to have caused interference with existing or planned copper cable loop transport technologies deployed by GTE in the same cable sheath, Focal will immediately remove such service enhancing copper cable technology and shall reimburse GTE for all incurred expense related to this interference.
- 3.1.2.2. Prior to GTE deploying service enhancing copper cable technology, as described above, GTE will validate, through a search of its facility assignment records, that Focal has not deployed technologies within the same cable sheath that would be interfered by those planned by GTE. Should such incompatibility exist, GTE will not deploy such technology that would interfere with those already deployed by Focal.
- 3.1.2.2.1. Should GTE deploy service enhancing copper cable technology which is determined to interfere with technology previously deployed by Focal, and Focal can demonstrate that they had complied with GTE's Unbundled Loop Facility Certification procedure, GTE will remove their technology from the cable sheath, reimburse Focal for all incurred expenses related to this interference.
- 3.1.3. Unbundled Loop Facility Reservation. GTE and Focal may each reserve for up to 6 (six) months the right to deploy within GTE's network copper cable loop transport technology for specific projects

for which a party can demonstrate a specific commitment by producing detailed engineering plans.

3.1.4.

Requirements:

Specific Loops as described in 3.1.1.1 through 3.1.1.4 are capable of transmitting signals for the following services (as needed by Focal to provide end-to-end service capability to its end-user customer):

1. 2-wire voice grade basic telephone services
2. 2-wire ISDN
3. 2-wire Centrex
4. 2 and 4-wire PBX lines or trunks
5. 2 and 4-wire voice grade private lines and foreign exchange lines
6. 4-wire digital data (2.4kbps through 64Kbps and n times 64Kbps) (where $n < 24$)
7. 4-wire DS1 (switched or private line)

3.1.5.

Additional Requirements for Loop Where Integrated Digital Loop Carrier Systems are being used. If GTE uses Integrated Digital Loop Carrier (DLCs) systems to provide local loop, GTE will make alternative arrangements to permit Focal to order a contiguous unbundled Loop. These arrangements may include the following: provide Focal with copper facilities or universal DLC that are acceptable to Focal, deploy Virtual Remote Terminals, allow Focal to purchase the entire Integrated DLC, or convert integrated DLCs to non-integrated systems.

3.2.

Loop Distribution Media

3.2.1.

Definition:

Loop Distribution Media provides connectivity between the NID and the terminal block on the customer-side of a Feeder Distribution Interface (FDI). The FDI is a device that terminates the Loop Distribution Media and the Loop Feeder, and cross-connects them in order to provide a continuous transmission path between the NID and a telephone company central office.

3.2.1.1.

In some instances, Focal shall require a copper twisted pair Distribution Media in instances where the Loop Distribution Media for services that GTE offers is other than a copper facility.

- 3.2.2. GTE will provide to Focal Loop Distribution Media of the same condition that exists for the current GTE customer.
- 3.2.3. GTE is not responsible for the end to end performance of the entire loop when GTE provides only the Loop Distribution Media.
- 3.2.4. The Loop Distribution Media provided under this Agreement shall meet or exceed the applicable interface requirements set forth in the technical references listed in Appendix A to this Attachment 2 under paragraph 2 thereof.
- 3.2.5. The Loop Distribution Media may be ordered by Focal through the Bona Fide Request procedures outlined in Attachment 12. The request shall specify the technical requirements for the Loop Distribution Media.
- 3.2.6. GTE shall perform all cross connections to the FDI as Focal may request from time to time in order to provide Network Elements to Focal in accordance with this Agreement. Since GTE will be performing all necessary cross connections within the FDI and at the main distribution frame, Focal agrees that there will be no requirement for personnel of Focal to access the FDI or the serving wire center to the extent that Focal has no equipment collocated in the GTE central office.
- 3.2.7. Focal shall be responsible for the costs (if any) required to create an interface at the main distribution frame if such interface does not already exist, such as in the case of an Integrated Digital Loop Carrier System, as specified in Attachment 14.

3.3. Loop Concentrator/Multiplexer

3.3.1. Definition:

The Loop Concentrator/Multiplexer is the Network Element that: (1) aggregates lower bit rate or bandwidth signals to higher bit rate or bandwidth signals (multiplexing); (2) disaggregates higher bit rate or bandwidth signals to lower bit rate or bandwidth signals (demultiplexing); (3) aggregates a specified number of signals or channels to fewer channels (concentrating); (4) performs signal conversion, including encoding of signals (e.g., analog to digital and digital to analog signal conversion); and (5) in some instances performs electrical to optical (E/O) conversion.

The Loop Concentrator/Multiplexer function may be provided through a Digital Loop Carrier (DLC) system, channel bank,

multiplexer or other equipment at which traffic is encoded and decoded, multiplexed and demultiplexed, or concentrated.

- 3.3.2. GTE is not responsible for the end to end performance of the entire loop when GTE provides only the Loop Concentrator/Multiplexer.
- 3.3.3. The Loop Concentrator/Multiplexer provided under this Agreement shall meet or exceed the applicable interface requirements set forth in the technical references listed in Appendix A to this Attachment 2, under paragraph 2 thereof.
- 3.3.4. The Loop Concentrator/Multiplexer may be ordered by Focal through the Bona Fide Request procedures outlined in Attachment 12. The request shall specify the technical requirements for the Loop Concentrator/Multiplexer.

3.4. Loop Feeder

3.4.1. Definition:

- 3.4.2. The Loop Feeder is the Network Element that provides connectivity between (1) a FDI associated with Loop Distribution Media and a termination point appropriate for the media in a central office, or (2) a Loop Concentrator/Multiplexer provided in a remote terminal and a termination point appropriate for the media in a central office. Since GTE will be performing all necessary cross connections within the FDI and the main distribution frame, there will be no requirement for personnel of Focal to access the FDI or the serving wire center to the extent that Focal has no equipment collocated in the GTE central office.
- 3.4.3. In certain cases, Focal will require a copper twisted pair loop even in instances where the medium of the Loop Feeder for services that GTE offers is other than a copper facility.
- 3.4.4. The Loop Feeder provided under this Agreement shall meet or exceed the applicable interface requirements set forth in the technical references listed in Appendix A to this Attachment 2, under paragraph 2 thereof.
- 3.4.5. The Loop Feeder may be ordered by Focal through the Bona Fide Request procedures outlined in Attachment 12. The request shall specify the technical requirements for the Loop Feeder.

- 3.4.6. GTE is not responsible for the end performance of the entire loop when GTE provides only the Loop Feeder.
- 3.5. Other Sub-Loop Terms and Conditions
 - 3.5.1. GTE agrees to provide access to the sub-loop network elements at the Feeder Distribution Interface (FDI), based on the following conditions:
 - 3.5.2. Focal agrees to pay GTE to expand or replace the FDI (over and above the established price of the basic loop) to accommodate terminating the new Focal cable.
 - 3.5.3. Focal agrees to pay GTE an agreed upon charge to perform all cross connections within the GTE FDI (in addition to the price of the basic sub-loop network element(s) leased by Focal).
 - 3.5.4. Focal agrees that since all cross connects will be performed by GTE personnel, Focal personnel will not require access to the FDI.

4. Local Switching

4.1. Definition:

Local Switching is the Network Element that provides the functionality required to connect the appropriate originating lines or trunks wired to the Main Distributing Frame (MDF) or Digital Signal Cross Connect (DSX) panel to a desired terminating line or trunk. Such functionality shall include all of the features, functions, and capabilities of the GTE switch including but not limited to: line signaling and signaling software, digit reception, dialed number translations, call screening, routing, recording, call supervision, dial tone, switching, telephone number provisioning, announcements, calling features and capabilities (including call processing), CENTRANET, Automatic Call Distributor (ACD), Carrier pre-subscription (e.g., long distance carrier, intraLATA toll), Carrier Identification Code (CIC) portability capabilities, testing and other operational features inherent to the switch and switch software. Local Switching provides access to transport, signaling (ISDN User Part (ISUP) and Transaction Capabilities Application Part (TCAP), and platforms such as adjuncts, Public Safety Systems (911), operator services, directory services and Advanced Intelligent Network (AIN). Remote Switching Module functionality is included in the Local Switching function. The switching capabilities used will be based on the line side features they support, where technically feasible. Local Switching will also be capable of routing local

directory assistance and operator services calls to alternative directory assistance and operator services platforms.

4.1.1. Local Switching also includes Data Switching, which provides for ISDN Packet and Circuit Switched Data service, the data switching functionality that is required to connect between industry standard ISDN interfaces. In this case, the purpose of Data Switching is to terminate, concentrate, and switch data traffic from Customer Premises Equipment (CPE) in the digital format consistent with ISDN standards. Data Switching also provides connectivity for the purpose of conveying the customer data to its final destination.

4.2. **Technical Requirements:**

The requirements set forth in this Section 4.2 apply to Local Switching.

4.2.1. GTE shall offer to Focal unbundled access to all facilities, functions, features and capabilities of its local switches to the extent it is technically feasible. If Focal requests access to any facility, function, feature or capability of the GTE local switch that is technically feasible but which requires GTE to make modifications to the switch where such modifications are outside the scope of modifications that have been made in the past and are modifications that the manufacturer of the switch does not, and has not supported, GTE shall immediately seek endorsement from the manufacturer of the switch to make such modifications, and shall promptly notify Focal that GTE has done so within thirty (30) days of receiving Focal's request. After obtaining the vendor endorsement, GTE shall provide the unbundled access to the facility, function, feature or capability requested by Focal. Focal will reimburse GTE for all costs associated with such modification in accordance with section 251(d)(1) of the Act.

4.2.1.1. GTE shall offer Local Switching together with and separately from Data Switching.

4.2.1.2. When applicable, GTE shall route calls to the appropriate trunk or lines for call origination or termination.

4.2.1.3. GTE shall route local directory assistance and operator services calls on a per line or per screening class basis to (1) GTE platforms providing Network Elements or additional requirements, (2) Focal designated platforms, or (3) third-party platforms.

- 4.2.1.4. GTE shall provide standard recorded announcements as designated by Focal and call progress tones to alert callers of call progress and disposition.
- 4.2.1.5. GTE shall activate service for an Focal Customer or network interconnection on any of the Local Switching interfaces. This includes provisioning changes to change a customer from GTE's services to Focal's services without loss of feature functionality.
- 4.2.1.6. GTE shall perform routine testing (e.g., Mechanized Loop Tests (MLT) and test calls such as 105, 107 and 108 type calls) and fault isolation on a reasonable schedule designated by Focal.
- 4.2.1.7. GTE shall repair and restore any equipment or any other maintainable component owned by or under the control of GTE that may adversely impact Local Switching.
- 4.2.1.8. GTE shall control congestion points such as those caused by radio station call-ins, and network routing abnormalities, using capabilities such as Automatic Call Gapping, Automatic Congestion Control, and Network Routing Overflow.
- 4.2.1.9. GTE shall perform manual call trace as designated by Focal and permit customer originated call trace.
- 4.2.1.10. GTE shall record billable events and send the appropriate billing data to Focal as outlined in Attachment 6.
- 4.2.1.11. For Local Switching used as 911 Tandems, GTE shall allow interconnection from Focal local switching elements and GTE shall route the calls to the appropriate Public Safety Access Point (PSAP).
- 4.2.1.12. GTE shall provide where the switch is capable, each of the following capabilities:
- 4.2.1.13. Essential Service Lines;
- 4.2.1.14. Telephone service prioritization;
- 4.2.1.15. Telephone Relay Services for handicapped;
- 4.2.1.16. Soft dial tone where required by law; and
- 4.2.1.17. Any other capability required by law.

- 4.2.1.18. GTE shall provide Switching Service Point (SSP) capabilities and signaling software to interconnect the signaling links destined to the Signaling Transfer Point Switch (STPS). In the event that Local Switching is provided out of a switch without SS7 capability, the Tandem shall provide this capability as discussed in the section on Tandem Switching. These capabilities shall adhere to Bellcore specifications - TCAP (GR-1432-CORE), ISUP (GR-905-CORE), Call Management (GR-1429-CORE), Switched Fractional DS1 (GR-1357-CORE), Toll Free Service (GR-1428-CORE), Calling Name (GR-1597-CORE), Line Information Database (GR-954-CORE), and Advanced Intelligent Network (GR-2863-CORE). A further description of AIN is set forth on Sections 4.2.1.26.1 and 4.2.1.26.2 of this Attachment 2.
- 4.2.1.19. GTE shall provide interfaces to adjuncts through industry standard and Bellcore interfaces. These adjuncts can include, but are not limited to, the Service Circuit Node and Automatic Call Distributors. Examples of existing interfaces are ANSI ISDN standards Q.931 and Q.932.
- 4.2.1.20. GTE shall provide performance data regarding a customer line, traffic characteristics or other measurable elements to Focal to the extent that it provides that information to itself.
- 4.2.1.21. GTE shall offer Local Switching that provides feature offerings at parity to those provided by GTE to itself or any other party. Such feature offerings, where available, shall include but are not limited to:
- 4.2.1.22. Basic and primary rate ISDN;
- 4.2.1.23. Residential features;
- 4.2.1.24. Customer Local Area Signaling Services (CLASS/LASS);
- 4.2.1.25. CENTRANET (including equivalent administrative capabilities, such as customer accessible reconfiguration and detailed message recording); and
- 4.2.1.26. Advanced intelligent network triggers supporting Focal features. GTE shall offer to Focal all AIN triggers to the extent technically feasible and currently available to GTE for offering AIN-based services in accordance with the applicable technical references listed in Appendix A to this Attachment 2, under paragraph 3 thereof.

- 4.2.1.26.1. When Focal utilizes GTE's Local Switching network element and requests GTE to provision such network element with a technically feasible AIN trigger, GTE will provide access to the appropriate AIN Call Related Database for the purpose of invoking either a GTE AIN feature or an AIN feature developed by Focal through use of GTE's SCE/SMS under Section 11.7 below, provided, however, that GTE is not required to allow SS7 advanced intelligent access from Focal's SCP to GTE's switch to invoke an Focal-developed AIN feature, until testing and security concerns regarding the reliability of service to GTE's end users have been addressed, either through industry forums or successful testing.
- 4.2.1.26.2. When Focal utilizes its own local switch, GTE will provide access to the appropriate AIN Call Related Database for the purpose of invoking either a GTE AIN feature or an AIN feature developed by Focal through use of GTE's SCE/SMS under 11.7 below, provided, however, that GTE is not required to allow such use until testing and security concerns regarding the reliability of service to GTE's end users have been addressed, either through industry forums or successful testing.
- 4.2.1.27. GTE shall assign each Focal Customer line the class of service designated by Focal (e.g., using line class codes or other switch specific provisioning methods), and shall route local directory assistance calls from Focal Customers to Focal directory assistance operators at Focal's option.
- 4.2.1.28. GTE shall assign each Focal Customer line the class of services designated by Focal (e.g., using line class codes or other switch specific provisioning methods) and shall route operator calls from Focal Customer to Focal operators at Focal's option. Where technically feasible, GTE shall route local Operator Services calls (0+, 0-) dialed by Focal Customers directly to the Focal Local Operator Services platform, unless Focal requests otherwise pursuant to Section 28.6.1. Such traffic shall be routed over trunk groups specified by Focal which connect GTE end offices and the Focal Local Operator Services platform, using standard Operator Services dialing protocols of 0+ or 0-. Where intraLATA presubscription is not available, GTE will provide the functionality and features within its local switch (LS), to route Focal Customer dialed 0- and 0+ IntraLATA calls to the Focal designated line or trunk on the Main Distributing Frame (MDF) or Digital Cross Connect (DSX) panel via Modified Operator Services (MOS) Feature Group C signaling. Where IntraLATA presubscription is available, Focal Customer dialed 0- and 0+ intraLATA calls will be

routed to the intraLATA PIC carrier's designated operator services platform. In all cases, GTE will provide post-dial delay at no greater than that provided by GTE for its end user customers. Focal shall pay GTE's costs, if any, pursuant to the pricing standards of Section 252(d) of the Act, and in such amounts or levels as determined by the Commission for implementation of such routing.

- 4.2.1.29. If Focal requests the termination of Local Switching, GTE shall promptly remove the class of service assignment from the line.
- 4.2.1.30. If an Focal Customer subscribes to Focal provided voice mail and messaging services, GTE shall redirect incoming calls to the Focal system based upon presubscribed service arrangements (e.g., busy, don't answer, number of rings). GTE shall provide, where available, the following feature capabilities allowing for voice mail services: SMDI-E (Station Message Desk Interface-Enhanced) or SMDI (Station Message Desk Interface), MWI (Message Waiting Indicator) stutter dialtone and message waiting light feature capabilities; CF-B/DA (Call Forward on Busy/Don't Answer); CF/B (Call Forward on Busy); and CF/DA (Call Forward Don't Answer).
- 4.2.1.31. Local Switching shall be offered in accordance with the requirements of the technical references listed in Appendix A to this Attachment 2, under paragraph 3 thereof.
- 4.2.2. Interface Requirements:
 - 4.2.2.1. GTE shall provide the following interfaces (i.e. ports) to loops:
 - 4.2.2.2. Standard Tip/Ring interface including loopstart or groundstart, on-hook signaling (e.g., for calling number, calling name and message waiting lamp);
 - 4.2.2.3. Coin phone signaling;
 - 4.2.2.4. Basic Rate Interface ISDN;
 - 4.2.2.5. Two-wire analog interface to PBX;
 - 4.2.2.6. Four-wire analog interface to PBX;
 - 4.2.2.7. Four-wire DS1 interface to PBX or customer provided equipment (e.g. computers and voice response systems);

- 4.2.2.8. Primary Rate ISDN to PBX;
- 4.2.2.9. Switched Fractional DS1 with capabilities to configure Nx64 channels (where N = 1 to 24); and
- 4.2.2.10. GTE shall provide access to, but not limited to the following:
- 4.2.2.11. SS7 Signaling Network or Multi-Frequency trunking if requested by Focal;
- 4.2.2.12. Interface to Focal operator services systems or Operator Services through appropriate trunk interconnections for the system; and
- 4.2.2.13. Interface to Focal directory assistance services through the Focal switched network or to Directory Services through the appropriate trunk interconnections for the system; and 950 access or other Focal required access to interexchange carriers as requested through appropriate trunk interfaces.
- 4.2.2.14. Interfaces to Loops provided under this Agreement shall meet or exceed the applicable interface requirements set forth in the technical references listed in Appendix A to this Attachment 2, under paragraph 4 thereof.

4.3. Integrated Services Digital Network (ISDN)

Integrated Services Digital Network (ISDN) is defined in two variations. The first variation is Basic Rate ISDN (BRI). BRI consists of 2 Bearer (B) Channels and one Data (D) Channel. The second variation is Primary Rate ISDN (PRI). PRI consists of 23 B Channels and one D Channel. Both BRI and PRI B Channels may be used for voice, Circuit Switched Data (CSD) or Packet Switched Data (PSD). The BRI D Channel may be used for call related signaling, non-call related signaling or packet switched data. The PRI D Channel may be used for call related signaling.

4.3.1. Technical Requirements - ISDN

- 4.3.1.1. Where available, GTE shall offer Data Switching providing ISDN that, at a minimum:
- 4.3.1.2. Provides integrated packet handling capabilities;
- 4.3.1.3. Allows for full 2B+D Channel functionality for BRI; and.
- 4.3.1.4. Allows for full 23B+D Channel functionality for PRI.

- 4.3.1.5. Each B Channel shall allow for voice, 64Kbs CSD, and PSD of 128 logical channels at minimum speeds of 19Kbs throughput of each logical channel up to the total capacity of the B Channel.
- 4.3.1.6. Each B Channel shall provide capabilities for alternate voice and data on a per call basis.
- 4.3.1.7. The BRI D Channel shall allow for call associated signaling, non-call associated signaling and PSD of 16 logical channels at minimum speeds of 9.6 Kbs throughput of each logical channel up to the total capacity of the D channel.
- 4.3.1.8. The PRI D Channel shall allow for call associated signaling.

4.3.2. Interface Requirements - ISDN

- 4.3.2.1. GTE shall provide the BRI U interface using 2 wire copper loops.
- 4.3.2.2. GTE shall provide the BRI interface using Digital Subscriber Loops.
- 4.3.2.3. GTE shall offer PSD interfaces.
- 4.3.2.4. GTE shall offer PSD trunk interfaces operating at 56Kbs.
- 4.3.2.5. Interfaces to Loops for ISDN requirements provided under this Agreement shall meet or exceed the applicable interface requirements set forth in the technical references listed in Appendix A to this Attachment 2, under paragraph 5 thereof.

5. Operator Service

5.1. [Intentionally Deleted]

5.1.1. Definition.

Operator Service provides where technically feasible: (1) operator handling for call completion (for example, collect, third number billing, and manual credit card calls), (2) operator or automated assistance for billing after the customer has dialed the called number; and (3) special services including Busy Line Verification and Emergency Line Interrupt (ELI), Emergency Agency Call, Operator-assisted Directory Assistance, and Rate Quotes.

5.1.2. Requirements

- 5.1.2.1. Operator Services for calls which are routed from the local switch shall include but not be limited to the following:
- 5.1.2.2. GTE shall complete 0+ and 0- dialed local calls.
- 5.1.2.3. GTE shall complete 0+ and 0- intraLATA toll calls.
- 5.1.2.4. GTE shall complete calls that are billed to a GTE calling card and Focal shall designate to GTE the acceptable types of special billing.
- 5.1.2.5. GTE shall complete person-to-person calls.
- 5.1.2.6. GTE shall complete collect calls.
- 5.1.2.7. GTE shall provide the capability for callers to bill to a third party and complete such calls.
- 5.1.2.8. GTE shall complete station-to-station calls.
- 5.1.2.9. GTE shall process emergency calls.
- 5.1.2.10. GTE shall process Busy Line Verify and Emergency Line Interrupt requests.
- 5.1.2.11. GTE shall process emergency call trace.
- 5.1.2.12. GTE shall process operator-assisted directory assistance calls.
- 5.1.2.13. GTE shall provide rate quotes and process time-and-charges requests on 0- calls, and shall provide Focal's rates where technically feasible.
- 5.1.2.14. GTE shall route 0- traffic directly to a "live" operator team.
- 5.1.2.15. Operator Services provided by GTE to Focal local service customers under this Agreement will be customized for Focal, where technically feasible, at rates specified in Attachment 14. GTE will perform necessary software upgrades to allow for customized Operator Services on a switch-by-switch basis, subject to capability and capacity limitations.
- 5.1.2.16. GTE shall provide caller assistance for the handicapped at parity with what is provided under GTE's tariff.

- 5.1.2.17. [Intentionally deleted.]
- 5.1.2.18. [Intentionally deleted]
- 5.1.2.19. GTE shall provide notification of the length of call.
- 5.1.2.20. Operator Service shall adhere to equal access requirements consistent with GTE Equal Access Deployment Schedule.
- 5.1.2.21. GTE shall exercise at least the same level of fraud control in providing Operator Service to Focal that GTE provides for its own operator service.
- 5.1.2.22. GTE shall perform Billed Number Screening when handling Collect, Person-to-Person, and Billed-to-Third-Party calls.
- 5.1.2.23. GTE shall provide to Focal such service measurements and accounting reports as it prepares to meet Commission requirements.
- 5.1.2.24. GTE shall direct customer inquiries to a single, Focal-designated customer service center.
- 5.1.2.25. [Intentionally deleted]
- 5.1.2.26. GTE will offer Focal a level of Operator Services which is at parity with what it provides itself, and, at a minimum, meets all criteria, requirements and guidelines established by the Commission, if any. To the extent that the level of service GTE provides to its own customers exceeds any criterion, requirement or guideline set by the applicable state regulatory commission, GTE shall offer the same level of service to Focal.
- 5.1.2.27. GTE will make all of its automation and other new technology related to the provision of Operator Services available to Focal as soon as it is available to GTE. GTE will otherwise make all tariffed Operator Service offerings available to Focal.
- 5.2. **Interface Requirements:**
With respect to Operator Services for calls that originate on local switching capability provided by or on behalf of Focal, the interface requirements shall conform to the then current established system interface specifications for the platform used to provide Operator Service and the interface shall conform to industry standards.

6. **Directory Assistance Service**

6.1. **Definition:**

Directory Assistance Service is a service that provides telephone number information to local end users that GTE serves on behalf of Focal who dial 411, 1411 or 555-1212 to obtain directory assistance for local numbers within their NPA.

6.1.1. [Intentionally deleted]

6.2. **Requirements**

6.2.1. GTE shall offer Directory Assistance Service which allows Focal Customers to obtain two listings at parity with the service provided to GTE's customers in accordance with tariff.

6.2.2. Directory Assistance Service provided by GTE to Focal local service customers under this Agreement will be customized for Focal, where technically feasible, at rates specified in Attachment 14. GTE will perform necessary software upgrades to allow for customized Directory Assistance on a switch-by-switch basis, subject to capability and capacity limitations.

6.2.3. GTE Directory Assistance Service will provide optional call completion service to Focal Customers in areas where call completion denial is available; Call completion services shall be provided at parity with that which GTE provides to its own end users.

6.2.4. GTE shall provide data regarding billable events.

6.2.5. To the extent that GTE provides free call allowances to Directory Assistance to its customers as part of any local service offering, GTE shall provide the same to Focal for Focal Customers to whom such local service offerings are resold;

6.2.6. GTE shall ensure that any Directory Assistance information that is provided by ARU shall be repeated twice for Focal Customers;

6.2.7. GTE Directory Assistance will provide emergency listings and related services to Focal Customers at service levels equivalent to those provided to GTE customers;

- 6.2.8. GTE Directory Assistance Services will include a service which intercepts calls placed to an Focal Customer whose number has been disconnected or changed. GTE shall provide a recorded announcement to (i) notify a calling party that the end user customer has transferred to a new telephone number of Focal and (ii) provide such calling party with details concerning the new telephone number to be dialed to reach the customer. GTE shall provide such announcement for the same length of time that GTE provides intercept or referral information for its customers that have changed telephone numbers.
- 6.2.9. GTE shall waive all Directory Assistance charges to Focal for calls placed by handicapped Focal Customers, provided however, that in accordance with GTE tariff for such services, Focal will submit to GTE, at the same time Focal requests such service, a doctor's letter or other proper certification, certifying that the Focal customer is qualified to receive such service.
- 6.2.10. Directory Assistance Service Updates
- 6.2.10.1. GTE shall update the GTE DA database with Focal customer listing changes daily. These changes include:
- 6.2.10.2. New customer connections;
- 6.2.10.3. Customer disconnections; and
- 6.2.10.4. Customer changes, including but not limited to name, address and listing status.
- 6.2.10.5. These updates shall also be provided for non-listed and non-published numbers for use in emergencies.

7. Common Transport

7.1. Definition:

Common Transport is an interoffice transmission path between GTE Network Elements that carries the traffic of more than one carrier and is not dedicated to a single carrier. Where GTE Network Elements are connected by intra-office wiring, such wiring is provided as a part of the Network Elements and is not Common Transport. For tandem interconnection, GTE shall provide interoffice transmission for common transport.

7.2. Technical Requirements

7.2.1. [Intentionally deleted.]

7.2.2. Common Transport provided on DS1 or VT1.5 circuits, shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for Central Office to Central Office "CO to CO" connections in the technical reference in Appendix A to this Attachment 2, under paragraph 6 thereof.

7.2.3. Common Transport provided on DS3 circuits, STS-1 circuits, and higher transmission bit rate circuits, Common Transport shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for Central Office to Central Office "CO to CO" connections in the technical reference set forth in Appendix A to this Attachment 2, under paragraph 6 thereof.

7.2.4. GTE shall be responsible for the engineering, provisioning, and maintenance of the underlying equipment and facilities that are used to provide Common Transport.

7.2.5. At a minimum, Common Transport shall meet all of the requirements set forth in the technical references in Appendix A to this Attachment 2, under paragraph 6 thereof (as applicable for the transport technology being used).

8. Dedicated Transport

8.1. Definition:

Dedicated Transport is an interoffice transmission path between Focal designated locations. Such locations may include GTE central offices or other equipment locations, Focal network components, other carrier network components, or customer premises.

8.1.1. GTE shall offer Dedicated Transport in each of the following ways:

8.1.1.1. As capacity on a shared circuit.

8.1.1.2. As a circuit (e.g., DS1, DS3, STS-1) dedicated to Focal.

8.1.1.3. As a system (i.e., the equipment and facilities used to provide Dedicated Transport such as SONET ring) dedicated to Focal.

8.1.2. When Dedicated Transport is provided as a circuit or as capacity on a shared circuit, it shall include (as appropriate):

8.1.2.1. Multiplexing functionality;

8.1.2.2. [intentionally deleted]

8.1.2.3. [intentionally deleted]

8.1.3. When Dedicated Transport is provided as a system it shall include:

8.1.3.1. Transmission equipment such as multiplexers, line terminating equipment, amplifiers, and regenerators;

8.1.3.2. Inter-office transmission facilities such as optical fiber, copper twisted pair, and coaxial cable. The specific arrangements with respect to dark fiber are covered in this Attachment 2, Section 14, "Unused Transmission Media";

8.1.3.3. Redundant equipment and facilities necessary to support protection and restoration; and,

8.1.3.4. Dedicated Transport includes the Digital Cross-Connect System (DCS) functionality as an option. DCS is described below in Section 8.4.

8.2. Technical Requirements

This Section sets forth technical requirements for all Dedicated Transport.

8.2.1. When GTE provides Dedicated Transport as a circuit or a system, the entire designated transmission circuit or system (e.g., DS1, DS3, STS-1) shall be dedicated to Focal designated traffic.

8.2.2. GTE shall offer Dedicated Transport in all then currently available technologies including, but not limited to, DS1 and DS3 transport systems, SONET (or SDH) Bi-directional Line Switched Rings, SONET (or SDH) Unidirectional Path Switched Rings, and SONET (or SDH) point-to-point transport systems (including linear add-drop systems), at all available transmission bit rates.

8.2.3. For DS1 or VT1.5 circuits, Dedicated Transport shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for Customer Interface to Central Office "CI

to CO” connections in the technical references listed in Appendix A to this Attachment 2, at paragraph 2.6 thereof.

- 8.2.4. For DS3 circuits, STS-1 circuits, and higher rate circuits, Dedicated Transport shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for Customer Interface to Central Office “CI to CO” connections in the technical reference listed in Appendix A to this Attachment 2, at paragraph 2.13 thereof.
- 8.2.5. When requested by Focal, Dedicated Transport shall provide physical diversity. Physical diversity means that two circuits are provisioned in such a way that no single failure of facilities or equipment will cause a failure on both circuits.
- 8.2.6. When physical diversity is requested by Focal, GTE shall provide the maximum feasible physical separation between intra-office and inter-office transmission paths (unless otherwise agreed by Focal).
- 8.2.7. Upon Focal’s request, GTE shall provide Real Time and continuous remote access to performance monitoring and alarm data affecting, or potentially affecting, Focal’s traffic.
- 8.2.8. GTE shall offer the following interface transmission rates for Dedicated Transport:
 - 8.2.8.1. DS1 (Extended SuperFrame - ESF, D4, and unframed applications shall be provided);
 - 8.2.8.2. DS3 (C-bit Parity, M13, and unframed applications shall be provided);
 - 8.2.8.3. SONET standard interface rates in accordance with ANSI T1.105 and ANSI T1.105.07 and physical interfaces per ANSI T1.106.06 (including referenced interfaces). In particular, VT1.5 based STS-1s will be the interface at an Focal service node.
 - 8.2.8.4. SDH Standard interface rates in accordance with International Telecommunications Union (ITU) Recommendation G.707 and Plesiochronous Digital Hierarchy (PDH) rates per ITU Recommendation G.704.
- 8.2.9. GTE shall provide cross-office wiring up to a suitable Point of Termination (POT) between Dedicated Transport and Focal

designated equipment. GTE shall provide the following equipment for the physical POT:

- 8.2.9.1. DSX1 for DS1s or VT1.5s;
- 8.2.9.2. DSX3 for DS3s or STS-1s; and
- 8.2.9.3. LGX for optical signals (e.g., OC-3 and OC-12)
- 8.2.10. [Intentionally deleted.]
- 8.2.11. For Dedicated Transport provided as a system, GTE shall design the system (including but not limited to facility routing and termination points and facility routing over existing transport facilities between GTE and a second carrier to carry traffic designated for that carrier) according to Focal specifications. If Focal requests higher quality specifications than GTE provides to itself, Focal shall pay the incremental cost of implementing such higher quality specification.
- 8.2.12. Upon Focal's request, GTE shall provide Focal with electronic provisioning control of Dedicated Transport purchased by Focal and connected to a Digital Cross Connect System (DCS), if the DCS has Customer Network Controller capability.
- 8.2.13. [Intentionally deleted]
- 8.2.14. At a minimum, Dedicated Transport shall meet each of the requirements set forth in Section 7.2 and in the technical references listed in Appendix A to this Attachment 2, under paragraph 7 thereof.
- 8.3. Technical Requirements for Dedicated Transport Using SONET technology.

This Section sets forth additional technical requirements for Dedicated Transport using SONET technology including rings, point-to-point systems, and linear add-drop systems.
- 8.3.1. All SONET Dedicated Transport provided as a system shall:
 - 8.3.1.1. Be synchronized from both a primary and secondary Stratum 1 level timing source. Additional detail on synchronization requirements are given in Section 13.4.

- 8.3.1.2. Provide SONET standard interfaces which properly interwork with SONET standard equipment from other vendors. This includes, but is not limited to, SONET standard Section, Line, and Path performance monitoring, maintenance signals, alarms, and data channels.
- 8.3.1.3. Provide Data Communications Channel (DCC) or equivalent connectivity through the SONET transport system. Dedicated Transport provided over a SONET transport system shall be capable of routing DCC messages between Focal SONET network components connected to the Dedicated Transport. For example, if Focal leases a SONET ring from GTE, that ring shall support DCC message routing between Focal SONET network components connected to the ring.
- 8.3.1.4. Support the following performance requirements for each circuit (STS-1, DS1, DS3, etc.):
 - 8.3.1.4.1. No more than 10 Errored Seconds Per Day (Errored Seconds are defined in the technical reference at Appendix A to this Attachment 2 at paragraph 7.5); and
 - 8.3.1.4.2. No more than 1 Severely Errored Second Per Day (Severely Errored Seconds are defined in the technical references set forth in Appendix A to this Attachment 2, at paragraph 7.5).
- 8.3.2. All SONET rings shall:
 - 8.3.2.1. Be provisioned on physically diverse fiber optic cables (including separate building entrances where available and diversely routed intra-office wiring). "Diversely routed" shall be interpreted as the maximum feasible physical separation between transmission paths, unless otherwise agreed by Focal.
 - 8.3.2.2. Support dual ring interworking per SONET Standards.
 - 8.3.2.3. Provide the necessary redundancy in optics, electronics, and transmission paths (including intra-office wiring) such that no single failure will cause a service interruption.
 - 8.3.2.4. Provide the ability to disable ring protection switching at Focal's direction (selective protection lock-out). This requirement applies to line switched rings only.

- 8.3.2.5. Provide the ability to use the protection channels to carry traffic (extra traffic). This requirement applies to line switched rings only.
- 8.3.2.6. Provide 50 millisecond restoration unless a ring protection delay is set to accommodate dual ring interworking schemes.
- 8.3.2.7. Have settable ring protection switching thresholds that shall be set in accordance with Focal's specifications.
- 8.3.2.8. Provide revertive protection switching with a settable wait to restore delay with a default setting of 5 minutes. This requirement applies to line switched rings only.
- 8.3.2.9. Provide non-revertive protection switching. This requirement applies to path switched rings only.
- 8.3.2.10. Adhere to the following availability requirements, where availability is defined in the technical reference listed in Appendix A to this Attachment 2, at paragraph 7.5 thereof.
 - 8.3.2.10.1. No more than 0.25 minutes of unavailability month; and
 - 8.3.2.10.2. No more than 0.5 minutes of unavailability per year.

8.4. Digital Cross-Connect System (DCS)

8.4.1. Definition:

- 8.4.1.1. DCS is a function which provides automated cross connection of Digital Signal level 0 (DS0) or higher transmission bit rate digital channels within physical interface facilities. Types of DCSs include but are not limited to DCS 1/0s, DCS 3/1s, and DCS 3/3s, where the nomenclature 1/0 denotes interfaces typically at the DS1 rate or greater with cross-connection typically at the DS0 rate. This same nomenclature, at the appropriate rate substitution, extends to the other types of DCSs specifically cited as 3/1 and 3/3. Types of DCSs that cross-connect Synchronous Transport Signal level 1 (STS-1s) or other Synchronous Optical Network (SONET) signals (e.g., STS-3) are also DCSs, although not denoted by this same type of nomenclature. DCS may provide the functionality of more than one of the aforementioned DCS types (e.g., DCS 3/3/1 which combines functionality of DCS 3/3 and DCS 3/1). For such DCSs, the requirements will be, at least, the aggregation of requirements on the "component" DCSs.

- 8.4.1.2. In locations where automated cross connection capability does not exist, DCS will be defined as the combination of the functionality provided by a Digital Signal Cross-Connect (DSX) or Light Guide Cross-Connect (LGX) patch panels and D4 channel banks or other DS0 and above multiplexing equipment used to provide the function of a manual cross connection.
- 8.4.1.3. Interconnection between a DSX or LGX, to a switch, another cross-connect, or other service platform device, is included as part of DCS.
- 8.5. DCS Technical Requirements
 - 8.5.1. DCS shall provide completed end-to-end cross connection of the channels designated by Focal.
 - 8.5.2. DCS shall perform facility grooming, multipoint bridging, one-way broadcast, two-way broadcast, and facility test functions.
 - 8.5.3. DCS shall provide multiplexing, format conversion, signaling conversion, or other functions.
 - 8.5.4. The end-to-end cross connection assignment shall be input to the underlying device used to provide DCS from an operator at a terminal or via an intermediate system. The cross connection assignment shall remain in effect whether or not the circuit is in use.
 - 8.5.5. GTE shall continue to administer and maintain DCS, including updates to the control software to current available releases.
 - 8.5.6. GTE shall provide various types of Digital Cross-Connect Systems including:
 - 8.5.6.1. DS0 cross-connects (typically termed DCS 1/0);
 - 8.5.6.2. DS1/VT1.5 (Virtual Tributaries at the 1.5Mbps rate) cross-connects (typically termed DCS 3/1);
 - 8.5.6.3. DS3 cross-connects (typically termed DCS 3/3);
 - 8.5.6.4. STS-1 cross-connects; and
 - 8.5.6.5. Other technically feasible cross-connects designated by Focal.

- 8.5.7. GTE shall provide immediate and continuous configuration and reconfiguration of the channels between the physical interfaces (i.e., GTE shall establish the processes to implement cross connects on demand, or, at Focal's option, permit Focal control of such configurations and reconfigurations).
- 8.5.8. GTE shall provide scheduled configuration and reconfiguration of the channels between the physical interfaces (i.e., GTE shall establish the processes to implement cross connects on the schedule designated by Focal, or, at Focal's option, permit Focal to control such configurations and reconfigurations).
- 8.5.9. DCS shall continuously monitor protected circuit packs and redundant common equipment.
- 8.5.10. DCS shall automatically switch to a protection circuit pack on detection of a failure or degradation of normal operation.
- 8.5.11. The underlying equipment used to provide DCS shall be equipped with a redundant power supply or a battery back-up.
- 8.5.12. GTE shall make available to Focal spare facilities and equipment, at Focal's expense to the extent such costs are not included in the cost of the unbundled network element, necessary for provisioning repairs, and to meet Focal's Direct Measures Of Quality (DMOQs) as specified in the Provisioning and Maintenance sections.
- 8.5.13. At Focal's option, GTE shall provide Focal with Real Time performance monitoring and alarm data on the signals and the components of the underlying equipment used to provide DCS that actually impact or might impact Focal's services. GTE will need to establish processes that allow GTE to provide these capabilities to Focal. For example, this may include hardware alarm data and facility alarm data on a DS3 in which an Focal DS1 is traversing.
- 8.5.14. At Focal's option, GTE shall provide Focal with Real Time ability to initiate tests on integrated equipment used to test the signals and the underlying equipment used to provide DCS, as well as other integrated functionality for routine testing and fault isolation.
- 8.5.15. DCS shall provide SONET to asynchronous gateway functionality (e.g., STS-1 to DS1 or STS-1 to DS3).
- 8.5.16. DCS shall perform optical to electrical conversion where the underlying equipment used to provide DCS contains optical

interfaces or terminations (e.g., Optical Carrier level 3, i.e., OC-3, interfaces on a DCS 3/1).

- 8.5.17. DCS shall have SONET ring terminal functionality where the underlying equipment used to provide DCS acts as a terminal on a SONET ring.
- 8.5.18. DCS shall provide multipoint bridging of multiple channels to other DCSs. Focal may designate multipoint bridging to be one-way broadcast from a single master to multiple tributaries, or two-way broadcast between a single master and multiple tributaries.
- 8.5.19. DCS shall multiplex lower speed channels onto a higher speed interface and demultiplex higher speed channels onto lower speed interfaces as designated by Focal.

8.6. DCS Interface Requirements

- 8.6.1. GTE shall provide physical interfaces on DS0, DS1, and VT1.5 channel cross-connect devices at the DS1 rate or higher. In all such cases, these interfaces shall be in compliance with applicable Bellcore, ANSI, ITU, and Focal standards.
- 8.6.2. GTE shall provide physical interfaces on DS3 channel cross-connect devices at the DS3 rate or higher. In all such cases, these interfaces shall be in compliance with applicable Bellcore, ANSI, ITU, and Focal standards.
- 8.6.3. GTE shall provide physical interfaces on STS-1 cross-connect devices at the OC-3 rate or higher. In all such cases, these interfaces shall be in compliance with applicable Bellcore, ANSI, ITU, and Focal standards.
- 8.6.4. Interfaces on all other cross-connect devices shall be in compliance with applicable Bellcore, ANSI, ITU, and Focal standards.
- 8.6.5. DCS shall, at a minimum, meet all the requirements set forth in the technical references listed in Appendix A to this Attachment 12, under paragraph 8 thereof.

9. Signaling Link Transport

9.1. Definition:

Signaling Link Transport is a set of two or four dedicated 56 Kbps. transmission paths between Focal-designated Signaling Points of Interconnection (SPOI) that provides appropriate physical diversity.

9.2. Technical Requirements

Signaling Link Transport shall consist of full duplex mode 56 kbps transmission paths.

9.3. Of the various options available, Signaling Link Transport shall perform in the following two ways:

9.3.1. As an "A-link" which is a connection between a switch and a home Signaling Transfer Point Switch (STPS) pair; and

9.3.2. As a "D-link" which is a connection between two STPS pairs in different company networks (e.g., between two STPS pairs for two Competitive Local Exchange Carriers (CLECs)).

9.4. Signaling Link Transport shall consist of two or more signaling link layers as follows:

9.4.1. An A-link layer shall consist of two links.

9.4.2. A D-link layer shall consist of four links.

9.4.3. A signaling link layer shall satisfy a performance objective such that:

9.4.3.1. There shall be no more than two minutes down time per year for an A-link layer; and

9.4.3.2. There shall be negligible (less than 2 seconds) down time per year for a D-link layer.

9.4.4. A signaling link layer shall satisfy interoffice and intraoffice diversity of facilities and equipment, such that:

9.4.5. No single failure of facilities or equipment causes the failure of both links in an A-link layer; and

9.4.6. No two concurrent failures of facilities or equipment shall cause the failure of all four links in a D-link layer.

9.5. Interface Requirements

9.5.1. There shall be a dedicated DS1 (1.544 Mbps) interface at the Focal-designated SPOIs. Each 56 kbps transmission path shall appear as a DS0 channel within the DS1 interface.

10. Signaling Transfer Points (STPs)

10.1. **Definition:** Signaling Transfer Points is a signaling network function that includes all of the capabilities provided by the signaling transfer point switches (STPs) and their associated signaling links which enable the exchange of SS7 messages among and between switching elements, database elements and signaling transfer point switches.

10.2. Technical Requirements

10.2.1. STPs shall provide access to all other Network Elements connected to the GTE SS7 network. These include:

10.2.1.1. GTE Local Switching or Tandem Switching;

10.2.1.2. GTE Service Control Points/DataBases;

10.2.1.3. Third-party local or tandem switching systems; and

10.2.1.4. Third-party-provided STPs.

10.2.2. The connectivity provided by STPs shall fully support the functions of all other Network Elements connected to the GTE SS7 network. This explicitly includes the use of the GTE SS7 network to convey messages which neither originate nor terminate at a signaling end point directly connected to the GTE SS7 network (i.e., transient messages). When the GTE SS7 network is used to convey transient messages, there shall be no alteration of the Integrated Services Digital Network User Part (ISDNUP) or Transaction Capabilities Application Part (TCAP) user data that constitutes the content of the message.

10.2.3. If a GTE tandem switch routes calling traffic, based on dialed or translated digits, on SS7 trunks between an Focal local switch and third party local switch, the GTE SS7 network shall convey the TCAP messages that are necessary to provide Call Management features (Automatic Callback, Automatic Recall, and Screening List Editing) between the Focal local STPs and the STPs that provide connectivity with the third party local switch, even if the third party local switch is not directly connected to the GTE STPs.

- 10.2.4. STPs shall provide all functions of the SCCP necessary for Class 0 (basic connectionless) service. In cases where the destination signaling point is a GTE local or tandem switching system or data base, or is an Focal or third party local or tandem switching system directly connected to the GTE SS7 network, STPs shall perform final GTT of messages to the destination and SCCP Subsystem Management of the destination. In all other cases, STPs shall perform intermediate GTT of messages to a gateway pair of STPs in an SS7 network connected with the GTE SS7 network, and shall not perform SCCP Subsystem Management of the destination.
- 10.2.5. When such capability is deployed in the GTE network, STPs shall provide all functions of the OMAP commonly provided by STPs, as specified in the reference set forth in Appendix A to this Attachment 2, at paragraph 9.5. This includes:
- 10.2.5.1. MTP Routing Verification Test (MRVT); and,
- 10.2.5.2. SCCP Routing Verification Test (SRVT).
- 10.2.6. This Section 10.2.8 applies when such capabilities are deployed in the GTE network. In cases where the destination signaling point is a GTE local or tandem switching system or DB, or is an Focal or third party local or tandem switching system directly connected to the GTE SS7 network, STPs shall perform MRVT and SRVT to the destination signaling point. In all other cases, STPs shall perform MRVT and SRVT to a gateway pair of STPs in an SS7 network connected with the GTE SS7 network. This requirement shall be superseded by the specifications for Internetwork MRVT and SRVT if and when these become approved ANSI standards and available capabilities of GTE STPs.
- 10.2.7. Focal and GTE agree to participate in the industry IN Forum "Interconnection and Access Group" project to address interconnection requirements for multiple third party AIN SCP access to GTE's switch triggers. Focal and GTE recognize that actual commencement of tests under this project will be determined by all participants in the project.

10.3. Interface Requirements

- 10.3.1. GTE shall provide the following STPs options to connect Focal or Focal-designated local switching systems or STPs to the GTE SS7 network:

- 10.3.1.1. An A-link interface from Focal local switching systems; and,
- 10.3.1.2. A D-link interface from Focal local STPSs.
- 10.3.2. Each type of interface shall be provided by one or more sets (layers) of signaling links, as follows:
 - 10.3.2.1. An A-link layer shall consist of two links.
 - 10.3.2.2. A D-link layer shall consist of four links.
- 10.3.3. The Signaling Point of Interconnection (SPOI) for each link shall be located at a cross-connect element, such as a DSX-1, in the Central Office (CO) where the GTE STPS is located. There shall be a DS1 or higher rate transport interface at each of the SPOIs. Each signaling link shall appear as a DS0 channel within the DS1 or higher rate interface. GTE shall offer higher rate DS1 signaling for interconnecting Focal local switching systems or STPSs with GTE STPSs as soon as these become approved ANSI standards and available capabilities of GTE STPs.
- 10.3.4. GTE shall provide intraoffice diversity between the SPOIs and the GTE STPS, so that no single failure of intraoffice facilities or equipment shall cause the failure of both D-links in a layer connecting to a GTE STPS.
- 10.4. Message Screening**
 - 10.4.1. GTE shall set message screening parameters so as to accept messages from Focal local or tandem switching systems destined to any signaling point in the GTE SS7 network with which the Focal switching system has a legitimate signaling relation.
 - 10.4.2. GTE shall set message screening parameters so as to accept messages from Focal local or tandem switching systems destined to any signaling point or network interconnected within the GTE SS7 network with which the Focal switching system has a legitimate signaling relation.
 - 10.4.3. GTE shall set message screening parameters so as to accept messages destined to an Focal local or tandem switching system from any signaling point or network interconnected within the GTE SS7 network with which the Focal switching system has a legitimate signaling relation.

10.4.4. GTE shall set message screening parameters so as to accept and send messages destined to an Focal SCP from any signaling point or network interconnected within the GTE SS7 network with which the Focal SCP has a legitimate signaling relation.

10.5. STPs shall meet or exceed the requirements for STPs set forth in the technical references listed in Appendix A to this Attachment 2, under paragraph 9 thereof.

11. Service Control Points/Databases

11.1. Definition:

Databases are the Network Elements that provide the functionality for storage of, access to, and manipulation of information required to offer a particular service and/or capability.

11.1.1. A Service Control Point (SCP) is a specific type of Database Network Element functionality deployed in a Signaling System 7 (SS7) network that executes service application logic in response to SS7 queries sent to it by a switching system also connected to the SS7 network. SCPs also provide operational interfaces to allow for provisioning, administration and maintenance of subscriber data and service application data. (e.g., an 800 database stores customer record data that provides information necessary to route 800 calls).

11.2. Technical Requirements for SCPs/Databases

Requirements for SCPs/Databases within this section address storage of information, access to information (e.g. signaling protocols, response times), and administration of information (e.g., provisioning, administration, and maintenance). All SCPs/Databases shall be provided to Focal in accordance with the following requirements, except where such a requirement is superseded by specific requirements set forth in Sections 11.3 to 11.7.

11.2.1. GTE shall make available physical interconnection to SCPs through the SS7 network and protocols, as specified in Section 10 of this Attachment, with TCAP as the application layer protocol.

11.2.2. Except for GTE's directory assistance databases, GTE shall provide physical interconnection to databases via industry standard interfaces and protocols. GTE will provide Focal with copies of its directory assistance databases on magnetic tape. GTE will also

provide to Focal daily updates to its directory assistance databases on magnetic tape. Focal and GTE shall agree on the type of magnetic tape, the format of the data on the tapes, the locations for delivery of the tapes, and all other implementation issues that the parties need to be resolved within ten days of the Effective Date of this Agreement. If the parties fail to reach agreement pursuant to this Section, the parties will submit the disputed issues to the alternative dispute resolution process as set forth in this Agreement.

11.2.3. The reliability of interconnection options shall be consistent with requirements for diversity and survivability as specified in Section 10 of this Attachment (which applies to both SS7 and non-SS7 interfaces).

11.2.4. [Intentionally deleted.]

11.2.5. GTE shall provide Database provisioning consistent with the provisioning requirements of this Agreement (e.g., data required, edits, acknowledgments, data format and transmission medium and notification of order completion).

11.2.6. GTE shall provide Database maintenance consistent with the maintenance requirements as specified in this Agreement.

11.2.7. GTE shall provide billing and recording information to track database usage consistent with connectivity billing and recording requirements as specified in this Agreement.

11.2.8. GTE shall provide SCPs/Databases in accordance with the physical security requirements specified in this Agreement.

11.2.9. GTE shall provide SCPs/Databases in accordance with the logical security requirements specified in this Agreement.

11.3. Line Information Database (LIDB).

This Subsection defines and sets forth additional requirements for the Line Information Database.

11.3.1. Definition:

The Line Information Database (LIDB) is a transaction-oriented database accessible through Common Channel Signaling (CCS)

networks. It contains records associated with customer Line Numbers and Special Billing Numbers (in accordance with the requirements set forth in the technical reference listed in Appendix A to this Attachment 2, at paragraph 10.5.). LIDB accepts queries from other Network Elements and provides appropriate responses. The query originator need not be the owner of LIDB data. LIDB queries include functions such as screening billed numbers that provides the ability to accept Collect or Third Number Billing calls and validation of Telephone Line Number based non-proprietary calling cards. The interface for the LIDB functionality is the interface between the GTE CCS network and other CCS networks. LIDB also interfaces to administrative systems. The administrative system interface provides Work Centers with an interface to LIDB for functions such as provisioning, auditing of data, access to LIDB measurements and reports.

11.3.2. Technical Requirements

- 11.3.2.1. Prior to the availability of a long-term solution for Local Number Portability, GTE shall enable Focal to store in GTE's LIDB any customer Line Number or Special Billing Number record, for which the NPA-NXX or NXX-0/1XX Group is supported by that LIDB.
- 11.3.2.2. Prior to the availability of a long-term solution for Local Number Portability, GTE shall enable Focal to store in GTE's LIDB any customer Line Number or Special Billing Number record, and NPA-NXX and NXX-0/1XX Group Records, belonging to an NPA-NXX or NXX-0/1XX owned by Focal.
- 11.3.2.3. Subsequent to the availability of a long-term solution for Local Number Portability, GTE shall enable Focal to store in GTE's LIDB any customer Line Number or Special Billing Number record, regardless of the number's NPA-NXX or NXX-0/1XX.
- 11.3.2.4. GTE shall perform the following LIDB functions for Focal's customer records in LIDB:
 - 11.3.2.4.1. Billed Number Screening (provides information such as whether the Billed Number may accept Collect or Third Number Billing calls); and
 - 11.3.2.4.2. Calling Card Validation
- 11.3.2.5. GTE shall process Focal's customer records in LIDB at least at parity with GTE customer records. With respect to other LIDB

functions, GTE shall indicate to Focal what additional functions (if any) are performed by LIDB in their network.

- 11.3.2.6. Within two (2) weeks after a request by Focal, GTE shall provide Focal with a list of the customer data items which Focal would have to provide in order to support each required LIDB function. The list shall indicate which data items are essential to LIDB function, and which are required only to support certain services. For each data item, the list shall show the data formats, the acceptable values of the data item and the meaning of those values.
- 11.3.2.7. [Intentionally deleted.]
- 11.3.2.8. [Intentionally deleted.]
- 11.3.2.9. [Intentionally deleted.]
- 11.3.2.10. GTE shall make changes to NPA-NXX and NXX-0/1XX Group Records, and Line Number and Special Billing Number Records associated with Focal Customer, as requested by Focal, within time frames at parity with those time frames in which GTE makes such changes for its own or any other carrier's customers.
- 11.3.2.11. In the event that end user customers change their local service provider, GTE shall maintain customer data (for line numbers, card numbers, and for any other types of data maintained in LIDB excluding GTE-issued line based calling card numbers) so that such customers shall not experience any interruption of service due to the lack of such maintenance of customer data.
- 11.3.2.12. All additions, updates and deletions of Focal data to the LIDB shall be solely at the direction of Focal.
- 11.3.2.13. GTE shall provide priority updates to LIDB for Focal data upon Focal's request (e.g., to support fraud protection).
- 11.3.2.14. [Intentionally deleted.]
- 11.3.2.15. GTE shall perform backup and recovery of all of Focal's data in LIDB as frequently as Focal may reasonably specify, including sending to LIDB all changes made since the date of the most recent backup copy.

- 11.3.2.16. GTE shall provide to Focal access to LIDB measurements and reports at least at parity with the capability GTE has for its own customer records and that GTE provides to any other party.
- 11.3.2.17. GTE shall provide Focal with LIDB reports of data which are missing or contain errors, as well as any misroute errors, within the time period reasonably designated by Focal.
- 11.3.2.18. GTE shall prevent any access to or use of Focal data in LIDB by GTE personnel or by any other party that is not authorized by Focal in writing.
- 11.3.2.19. Where technically feasible and currently available, GTE shall provide Focal performance of the LIDB Data Screening function, which allows a LIDB to completely or partially deny specific query originators access to LIDB data owned by specific data owners, (in accordance with the technical reference listed in Appendix A to this Attachment 2, at paragraph 10.5.) for Customer Data that is part of an NPA-NXX or NXX-0/1XX wholly or partially owned by Focal at least at parity with GTE Customer Data. Focal will provide GTE the screening information associated with LIDB Data Screening of Focal data in accordance with this requirement.
- 11.3.2.20. GTE shall accept queries to LIDB associated with Focal Customer records, and shall return responses in accordance with the requirements of this Section 11.
- 11.3.2.21. [Intentionally deleted.]
- 11.3.2.22. [Intentionally deleted.]
- 11.3.2.23. [Intentionally deleted.]
- 11.3.2.24. [Intentionally deleted.]
- 11.3.2.24.1. [Intentionally deleted.]
- 11.3.2.24.2. [Intentionally deleted.]
- 11.3.2.24.3. [Intentionally deleted.]
- 11.3.2.24.4. [Intentionally deleted.]
- 11.3.2.24.5. [Intentionally deleted.]

11.3.2.24.6. [Intentionally deleted.]

11.3.2.24.6.1. [Intentionally deleted.]

11.3.2.24.6.2. [Intentionally deleted.]

11.3.2.24.6.3. [Intentionally deleted.]

11.3.3. **LIDB Interface Requirements.**

GTE shall offer LIDB in accordance with the requirements of this Subsection.

11.3.3.1. The interface to LIDB shall be in accordance with the technical reference listed in Appendix A to this Attachment 2, at paragraph 10.3.

11.3.3.2. The CCS interface to LIDB shall be the standard interface listed in Appendix A to this Attachment 2, at paragraph 10.3.

11.3.3.3. The LIDB Data Base interpretation of the ANSI-TCAP messages shall comply with the technical reference listed in Appendix A to this Attachment 2, at paragraph 10.4. Global Title Translation shall be maintained in the signaling network in order to support signaling network routing to the LIDB.

11.4. **Toll Free Number Database**

The Toll Free Number Database is a SCP that provides functionality necessary for toll free (e.g., 800 and 888) number services by providing routing information and additional so-called vertical features during call set-up in response to queries from SSPs. GTE shall provide the Toll Free Number Database in accordance with the following:

11.4.1. **Technical Requirements**

11.4.1.1. GTE shall make the GTE Toll Free Number Database available for Focal to query with a toll-free number and originating information.

11.4.1.2. The Toll Free Number Database shall return carrier identification and, where applicable, the queried toll free number, translated

numbers and instructions as it would in response to a query from a GTE switch.

11.4.2. Signaling Interface Requirements

The signaling interface between the Focal or other local switch and the Toll-Free Number database shall use the TCAP protocol as specified in the technical reference listed in Appendix A to this Attachment 2, at paragraph 10.1, together with the signaling network interface as specified in the technical reference listed in Appendix A to this Attachment 2, at paragraphs 10.2. and 10.6.

11.5. **Automatic Location Identification/Data Management System (ALI/DMS)**

11.5.1. The ALI/DMS Database contains customer information (including name, address, telephone information, and sometimes special information from the local service provider or customer) used to determine to which Public Safety Answering Point (PSAP) to route the call. The ALI/DMS database is used to provide more routing flexibility for E911 calls than Basic 911.

11.6. **Technical Requirements**

11.6.1. GTE shall provide the Emergency Services Data Base in accordance with the following: GTE shall offer Focal a data link to the ALI/DMS database or permit Focal to provide its own data link to the ALI/DMS database. GTE shall provide error reports from the ALI/DMS data base to Focal immediately after Focal inputs information into the ALI/DMS data base. Alternately, Focal may utilize GTE to enter customer information into the data base on a demand basis, and validate customer information on a demand basis.

11.6.2. The ALI/DMS database shall contain the following customer information:

11.6.2.1. Name;

11.6.2.2. Address;

11.6.2.3. Telephone number; and

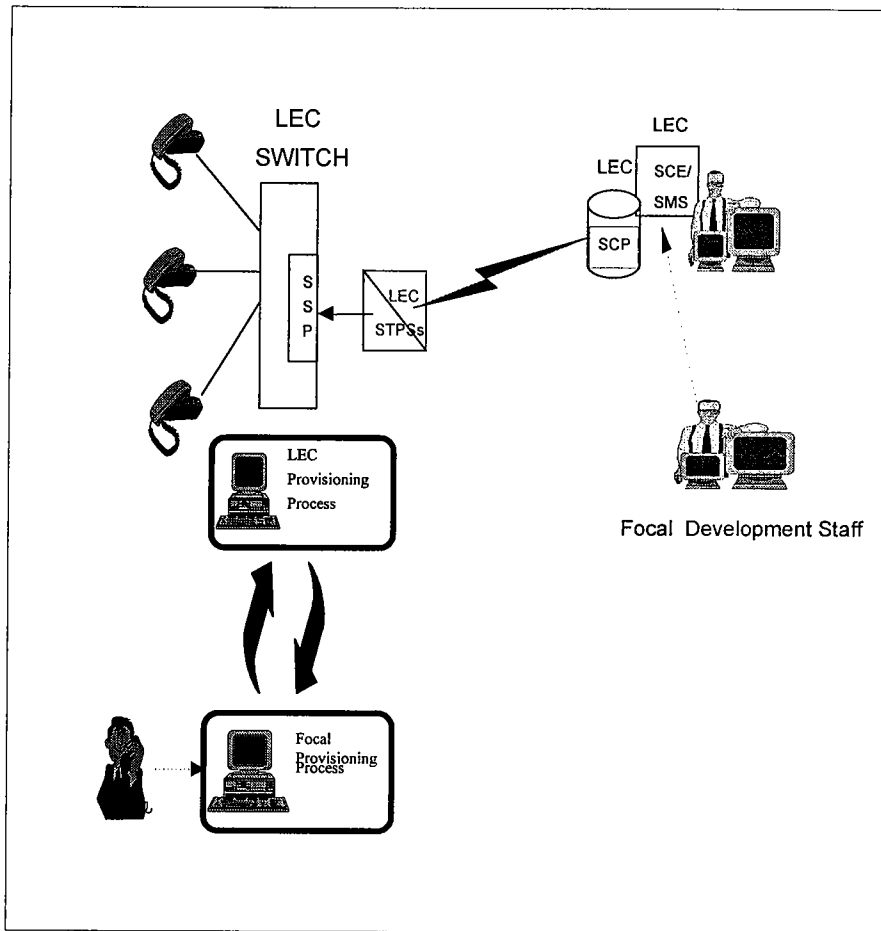
- 11.6.2.4. Other information as appropriate (e.g., whether a customer is blind or deaf or has another disability).
- 11.6.2.5. When GTE is responsible for administering the ALI/DMS database in its entirety, ported number NXXs entries for the ported numbers should be maintained unless Focal requests otherwise and shall be updated if Focal requests.
- 11.6.2.6. When Remote Call Forwarding (RCF) is used to provide number portability to the local customer and a remark or other appropriate field information is available in the database, the shadow or "forwarded-to" number and an indication that the number is ported shall be added to the customer record.
- 11.6.2.7. If GTE is responsible for configuring PSAP features (for cases when the PSAP or GTE supports an ISDN interface) it shall ensure that CLASS Automatic Recall (Call Return) is not used to call back to the ported number.
- 11.6.2.8. [Intentionally deleted.]
- 11.6.3. SCPs/Databases shall meet or exceed the requirements for SCPs/Databases set forth in the technical references listed in Appendix A to this Attachment 2, under paragraph 10.
- 11.7. Service Creation Environment and Service Management System (SCE/SMS) Advanced Intelligent Network (AIN) Access
 - 11.7.1. Advanced Intelligent Network (AIN) Database. Focal shall have the right to obtain access to and to use GTE's service applications in the GTE SMS in addition to Focal's own service applications that Focal deploys via the GTE SMS to the GTE SCP, as required below. Focal may use and access such service applications either through Focal Switch(es) to the GTE AIN SCP via interconnection of the GTE SS7 and Focal SS7 networks or through its purchase of unbundled elements, including local switching, from GTE. When Focal obtains access to GTE's service applications using an Focal switch, this interconnection arrangement shall result in the GTE AIN SCP recognizing the Focal Switch as at least at parity with GTE's Local Switch in terms of interfaces, performance and capabilities.
 - 11.7.1.1. GTE STPs shall maintain global title translations necessary to direct AIN queries for select global title address and translation

type values to and from the Focal SS7 network, within the global title translation capacity to the STP.

- 11.7.1.2. Requirements for billing and recording information to track AIN query-response usage shall be consistent with Connectivity Billing and Recording requirements as specified in Attachment 6 (e.g., recorded message format and content, timeliness of feed, data format and transmission medium).
- 11.7.1.3. GTE shall provide to Focal all necessary testing resources and staff to perform service certification testing prior to service deployment in accordance with the Cooperative Testing section of this Agreement provided that Focal shall reimburse GTE for the cost of providing such resources.
- 11.7.1.4. [Intentionally deleted]
- 11.7.1.5. When Focal selects SS7 Access, GTE will provide interconnection of its SS7 network per Section 10 of this Attachment 10 with Focal's SS7 network for exchange of AIN TCAP messages between Focal's SSP and GTE's AIN SCP.
- 11.7.1.6. STPs shall offer SS7 AIN Access in accordance with the requirements of the technical references listed in Appendix A to this Attachment 2, under paragraph 11.
- 11.7.2. SCE/SMS AIN Access shall provide Focal the ability to create service applications in the GTE SCE and deploy those applications via the GTE SMS to the GTE SCP. This interconnection arrangement shall provide Focal access to the GTE development environment and administrative system in a manner at least at parity with GTE's ability to deliver its own AIN-based services, subject to reasonable security arrangements. SCE/SMS AIN Access is the development of service applications within the GTE Service Creation Environment, and deployment of service applications via the GTE Service Management System. Focal requests to use the GTE SCE will be subject to request, review and testing procedures to be agreed upon by the Parties. See Figure 2 below.

FIGURE 2

Figure 2



- 11.7.2.1. GTE shall make SCE hardware, software, testing and technical support (e.g., technical contacts, system administrator) resources available to Focal. Scheduling of SCE resources shall allow Focal at least equal priority to GTE provided that Focal shall reimburse GTE for the cost of providing such resources.
- 11.7.2.2. The GTE SCE/SMS shall allow for multi-user access with proper source code management and other logical security functions as specified in the Security section of this Agreement.
- 11.7.2.3. The GTE SCP shall partition and protect Focal service logic and data from unauthorized access, execution or other types of compromise.
- 11.7.2.4. GTE shall provide training and documentation for Focal development staff only in cases in which such training or documentation is not reasonably available from another source. If training or documentation is required in accordance with this section, it will be provided in a manner at least at parity with that provided by GTE to its development staff. Training will be conducted at a mutually agreed upon location provided that Focal shall reimburse GTE for the cost of providing such resources.

- 11.7.2.5. When Focal selects SCE/SMS AIN Access, GTE shall provide for a secure, controlled access environment on-site, and, if technically feasible, via remote data connections (e.g., dial up, LAN, WAN).
- 11.7.2.6. When Focal selects SCE/SMS AIN Access, GTE shall allow Focal to download data forms and/or tables to GTE SCP via GTE SMS without intervention from GTE (e.g., customer subscription).
- 11.7.2.7. Service Control Points (SCP)/Databases shall offer SCE/SMS AIN Access in accordance with requirements of GR-1280-CORE, AIN SCP Generic Requirements.
- 11.7.3. Any mediation to GTE's AIN database that GTE decides to apply, including the application of network management controls determined by GTE to be necessary to protect the SCP from an overload condition, will be done in a competitively neutral and nondiscriminatory basis for all users of the AIN database, including GTE and its customers. For example, any load mediation will affect all links to the STP, including those of GTE or its customers, in a like manner. Focal agrees to provide forecast information of its AIN requirements sufficient to permit GTE to engineer sufficient capacity on GTE's AIN SCP platform.

12. Tandem Switching

12.1. Definition:

Tandem Switching is the function that establishes a communications path between two switching offices through a third switching office (the tandem switch).

12.2. Technical Requirements

Tandem switching shall provide the following capabilities, where technically feasible:

- 12.2.1. Signaling to establish a tandem connection;
- 12.2.2. Screening and routing;
- 12.2.3. Recording of all billable events;
- 12.2.4. Connectivity to Operator Systems;
- 12.2.5. **Access to Toll Free number portability database;**
- 12.2.6. Tandem Switching shall provide all trunk interconnections discussed under the "Network Interconnection" section (e.g., SS7, MF, DTMF, DialPulse, PRI-ISDN, DID, and CAMA-ANI (if appropriate for 911));
- 12.2.7. Tandem Switching shall provide connectivity to PSAPs where 911 solutions are deployed and the tandem is used for 911; and
- 12.2.8. Tandem Switching shall provide connectivity to transit traffic to and from other carriers.
- 12.2.9. Tandem Switching shall accept connections (including the necessary signaling and trunking interconnections) between end offices, other tandems, IECs, ICOs, CAPs and CLEC switches.
- 12.2.10. Tandem Switching shall provide local tandeming functionality between two end offices including two offices belonging to different CLEC's (e.g., between an Focal end office and the end office of another CLEC).
- 12.2.11. Tandem Switching shall preserve CLASS/LASS features and Caller ID as traffic is processed. Additional signaling information and requirements are provided in Section 10.
- 12.2.12. Tandem Switching shall record billable events and send them to the area billing centers designated by Focal. Billing requirements are specified in Attachment 6 of this Agreement.
- 12.2.13. GTE shall perform routine testing and fault isolation on the underlying switch that is providing Tandem Switching and all its interconnections. When requested by Focal, the results and reports of the testing shall be made available to Focal. If Focal requests testing and fault isolation which GTE does not provide for itself, Focal shall pay all costs associated therewith to the extent

that such costs are not otherwise included in the cost of the element.

- 12.2.14. GTE shall maintain Focal's trunks and interconnections associated with Tandem Switching at least at parity to its own trunks and interconnections.
- 12.2.15. When requested by Focal, GTE shall provide performance data regarding traffic characteristics or other measurable elements to Focal for review.
- 12.2.16. Tandem Switching shall control congestion using capabilities such as Automatic Congestion Control and Network Routing Overflow. Congestion control provided or imposed on Focal traffic shall be at parity with controls being provided or imposed on GTE traffic (e.g., GTE shall not block Focal traffic and leave its traffic unaffected or less affected).
- 12.2.17. Tandem Switching shall route calls to GTE or Focal endpoints or platforms (e.g., operator services and PSAPs) on a per call basis as designated by Focal. Focal shall pay all costs associated therewith to the extent that such costs are not otherwise included in the cost of the element. Detailed primary and overflow routing plans for all interfaces available within the GTE switching network shall be mutually agreed to by Focal and GTE. Such plans shall meet Focal requirements for routing calls through the local network.
- 12.2.18. Tandem Switching shall process originating toll-free traffic received from an Focal local switch.
- 12.2.19. The Local Switching and Tandem Switching functions may be combined in an office. If this is done, both Local Switching and Tandem Switching shall provide all of the functionality required of each of those Network Elements in this Agreement.

12.3. Interface Requirements

- 12.3.1. Tandem Switching shall provide interconnection to the E911 PSAP where the underlying Tandem is acting as the E911 Tandem.
- 12.3.2. Tandem Switching shall interconnect, with direct trunks, to all carriers with which GTE interconnects.
- 12.3.3. GTE shall provide all signaling necessary to provide Tandem Switching with no loss of feature functionality.

- 12.3.4. Tandem Switching shall interconnect with Focal's switch, using two-way trunks, for traffic that is transiting via the GTE network to interLATA or intraLATA carriers GTE shall record tandem switching events necessary for GTE to bill Focal for tandem switching and any applicable transport. =
- 12.3.5. At Focal's request, Tandem Switching shall provide overflow routing of traffic from a given trunk group or groups onto another trunk group or groups according to the methodology that Focal designates.
- 12.3.6. Tandem Switching shall adhere to the Trunk Interface Requirements provided in the "Network Interconnection" section.
- 12.4. Tandem Switching shall meet or exceed each of the requirements for Tandem Switching set forth in the technical references listed in Appendix A to this Attachment 2, under paragraph 12.

13. **Additional Requirements**

This Section 13 of Attachment 2 sets forth the additional requirements for unbundled Network Elements which GTE agrees to offer to Focal under this Agreement.

13.1. **Cooperative Testing**

13.1.1. **Definition:**

Cooperative Testing means that GTE shall cooperate with Focal upon request or as needed to (1) ensure that any designed Network Elements provided to Focal by GTE are in compliance with the requirements of this Agreement, (2) test the overall functionality of various designed Network Elements provided by GTE to Focal in combination with each other or in combination with other equipment and facilities provided by Focal or third parties, and (3) ensure that all operational interfaces and processes are in place and functioning properly and efficiently for the provisioning and maintenance of designed Network Elements so that all appropriate billing data can be provided to Focal.

13.1.2. **Requirements**

Within 60 days of the Effective Date of this Agreement, Focal and GTE will agree upon a process to resolve technical issues relating

to interconnection of Focal's network to GTE's network and Network Elements and Ancillary Functions. The agreed upon process shall include procedures for escalating disputes and unresolved issues up through higher levels of each company's management. If Focal and GTE do not reach agreement on such a process within 60 days, any issues that have not been resolved by the parties with respect to such process shall be submitted to the ADR procedures set forth in Section 15 and Attachment 1 of this Agreement unless both parties agree to extend the time to reach agreement on such issues.

- 13.1.2.1. GTE shall provide Focal access for testing at the MDF. Such test access shall be sufficient to ensure that the applicable requirements can be tested by Focal. This access shall be available seven (7) days per week, 24 hours per day.
- 13.1.2.2. Focal may test any interfaces, Network Elements or Ancillary Functions and additional requirements provided by GTE pursuant to this Agreement.
- 13.1.2.3. GTE shall provide engineering data as requested by Focal for the loop components as set forth in Sections 2 and 3 of this Attachment which Focal may desire to test. Such data shall include equipment engineering and cable specifications, signaling and transmission path data. GTE shall provide to Focal the same type and quality of loop testing information that it provides to itself. Where GTE develops loop testing information as a matter of course, it will make that information available to Focal where such information is relevant to Focal's business. Where GTE maintains the internal discretion to test loops as needed, GTE will provide similar testing discretion to Focal.
- 13.1.2.4. [Intentionally Deleted]
- 13.1.2.5. [Intentionally Deleted]
- 13.1.2.6. GTE shall temporarily provision selected Local Switching features for testing. Within 60 days of the Effective Date of this Agreement Focal and GTE shall mutually agree on the procedures to be established between GTE and Focal to expedite such provisioning processes for feature testing.

- 13.1.2.7. Upon Focal's request, GTE shall provide technical staff to meet with Focal representatives to provide required support for Cooperative Testing.
- 13.1.2.8. Dedicated Transport and Loop Feeder may experience alarm conditions due to in-progress tests. GTE shall not remove such facilities from service without obtaining Focal's prior approval.
- 13.1.2.9. GTE shall conduct tests or maintenance procedures on Network Elements or Ancillary Functions or on the underlying equipment that is then providing a Network Element or Ancillary Function, that may cause a service interruption or degradation if such tests and procedures are at a time that is mutually acceptable to Focal and GTE.
- 13.1.2.10. GTE shall provide a single point of contact to Focal that is available 7 days per week, 24 hours per day for trouble status, sectionalization, resolution, escalation, and closure. Such staff shall be adequately skilled to allow expeditious problem resolution.
- 13.1.2.11. [Intentionally Deleted]
- 13.1.2.12. GTE shall participate in Cooperative Testing with Focal upon Focal's request to test any operational interface or process used to provide any designed Network Elements to Focal.
- 13.1.2.13. Focal and GTE shall endeavor to complete Cooperative Testing expeditiously.
- 13.1.2.14. During Cooperative Testing, GTE provisioning processes shall be enhanced to deliver designed Network Elements to Focal in shorter intervals than during subsequent normal service periods upon development of a rate for premium service provisioning.
- 13.1.2.15. GTE shall participate in Cooperative Testing requested by Focal as mutually required to insure service performance, reliability and customer serviceability of a designed Network Element.
- 13.1.2.16. Focal may accept or reject the designed Network Element ordered by Focal if upon completion of cooperative acceptance testing, the tested designed Network Element does not meet the technical or performance requirements for such designed Network Element.

13.2. Performance

- 13.2.1. Scope:
This section addresses performance requirements for Network Elements and Ancillary Functions to provide local service. It includes requirements for the reliability and availability of Network Elements and Ancillary Functions, and quality parameters such as transmission quality (analog and digital), and speed (or delay). In addition, an overview of service performance requirements is given.
- 13.2.1.1. The General Performance Requirements in this section apply to all aspects of Network Elements and Ancillary Functions. Additional requirements are given in this performance section and in the individual Network Elements sections.
- 13.2.1.2. GTE shall work cooperatively with Focal to determine appropriate performance allocations across Network Elements.
- 13.2.2. GTE shall meet or exceed the performance standards and requirements set forth in the technical references listed in Appendix A to this Attachment 2, under paragraph 13.
- 13.2.3. Services and Capabilities
- 13.2.3.1. All Network Elements shall provide performance sufficient, in combination with other Network Elements, to provide the following applications in accordance with the requirements of this document:
- 13.2.3.1.1. All types of voice services.
- 13.2.3.1.2. All types of voice-band data modem connections up to and including 28.8 kbps V.34.
- 13.2.3.1.3. All types of FAX transmissions up to and including 14.4 kbps group 3.
- 13.2.3.1.4. All CLASS/LASS features.
- 13.2.3.1.5. All Operator Systems.
- 13.2.3.2. The following capabilities shall be provided as applicable:
- 13.2.3.2.1. ISDN BRI
- 13.2.3.2.2. ISDN PRI

- 13.2.3.2.3. Switched Digital Data
- 13.2.3.2.4. Non-Switched Digital Data
- 13.2.3.2.5. Any types of Video applications that a customer may order
- 13.2.3.2.6. Any Coin Services the customer may order
- 13.2.3.2.7. Frame Relay and ATM

Private Line Services

13.2.4. Specific Performance Requirements for Network Elements and Ancillary Functions

13.2.4.1. The following sections itemize performance parameters for Network Elements and Ancillary Functions. GTE shall provide performance equal to or better than all of the requirements set forth in this Section. Unless noted otherwise, requirements and objectives are given in terms of specific limits. This means that all tests (acceptance and ongoing performance) shall meet the limit(s) to satisfy the requirement.

13.2.4.2. Performance Allocation Transmission path impairments may be classified as either analog or digital, and will depend on the nature of the signal transmitted across the Network Element. Analog impairments are introduced on any analog portion of the loop, typically between the NID portion of Loop Distribution and the analog to digital (A/D) conversion, and are usually correlated with the length of the physical plant. Digital impairments are introduced by A/D conversion and by interfaces between digital Network Elements. In addition, noise can be introduced by either analog transmission or the A/D conversion.

13.2.4.3. Loop Combination Architecture Constraints

13.2.4.3.1. The following constraints will limit not only the variety of Loop Combination architectures that may be considered, but also the architectures GTE may consider to deliver any Ancillary Function or Network Element. These constraints apply to the entire path between the NID portion of Loop Distribution and the GTE switch. Any exceptions to these restrictions shall be specifically requested or approved by Focal in writing.

13.2.4.3.1.1. No more than 1 A-D conversion.

- 13.2.4.3.1.2. No more than 1, 2-to-4-wire hybrid.
- 13.2.4.3.1.3. No voice compression.
- 13.2.4.3.1.4. No echo cancelers or suppressers.
- 13.2.4.3.1.5. One digital loss pad per PBX.
- 13.2.4.3.1.6. No digital gain.
- 13.2.4.3.1.7. No additional equipment that might significantly increase intermodulation distortion.
- 13.2.4.4. Transmission Impairments
 - 13.2.4.4.1. Analog Impairments Analog impairments are those introduced on portions of the end-to-end circuit on which communications signals are transmitted in analog format. These portions of the transmission path would typically be between NID and an A/D conversion, most commonly on the metallic loop. The performance on the analog portion of a circuit is typically inversely proportional to the length of that circuit.
 - 13.2.4.4.1.1. Loss
 - 13.2.4.4.1.1.1. Electrical loss is measured using a 1004 Hz 0.0dB one Milliwatt 900 ohm test tone.
 - 13.2.4.4.1.1.2. Off-hook electrical loss between the NID and the switch shall be no more than 8.0 dB for any line, and the mean value for all lines shall be 3.5 dB \pm 0.5 dB. On-hook electrical loss between the NID and the switch shall be no more than 4.0 dB above the off-hook electrical loss for any line.
 - 13.2.4.4.1.2. Idle Channel Circuit Noise
 - 13.2.4.4.1.2.1. Idle channel circuit noise (C-message) is added by analog facilities, by the A/D conversion of signals, by digital processing equipment (e.g. echo cancelers, digital loss pads), robbed bit signaling, and errors on digital facilities.
 - 13.2.4.4.1.2.2. Idle channel circuit noise shall be less than or equal to 18 dBmC.
 - 13.2.4.4.1.3. Talker Echo

- 13.2.4.4.1.3.1. The primary source of echo is improper impedance-matching at the 2-to-4 wire hybrid in the GTE network. The impact on customer perception is a function of both echo return loss and delay.
- 13.2.4.4.1.3.2. Echo Return Loss (ERL) shall be greater than 26dB to a standard termination (900 ohms, 2.16 mFd), and greater than 14 dB to a telephone set off-hook. Singing Return Loss (SRL) shall be greater than 21dB to a standard termination, and greater than 11 dB to a telephone set off-hook.
- 13.2.4.4.1.4. Listener Echo
Listener echo is a double reflection of a transmitted signal at two different impedance mismatches in the end-to-end connection. While in extreme cases it can degrade voice transmission performance, listener echo is primarily an issue for voiceband data. The requirements on Talker Echo shall apply to Listener Echo.
- 13.2.4.4.1.5. Propagation and Processing Delay
- 13.2.4.4.1.5.1. Propagation delay is the delay involved in transmitting information from one location to another. It is caused by processing delays of equipment in the network and delays associated with traveling across transmission facilities.
- 13.2.4.4.1.5.2. GTE shall cooperate with Focal to limit total service propagation and processing delay to levels at parity with that within the GTE local network.
- 13.2.4.4.1.6. Signal-to-Noise Ratio
- 13.2.4.4.1.6.1. The Signal-to-Noise Ratio (S/N) is a critical parameter in determining voiceband data performance. It is typically measured with a 1004 Hz tone.
- 13.2.4.4.1.6.2. GTE must provide on the Loop Combination a signal-to-noise ratio of at least 37 dB between the NID and the end office.
- 13.2.4.4.1.7. C-Notched Noise
The requirements for Signal-to-Noise Ration shall apply to C-Notched Noise.
- 13.2.4.4.1.8. Attenuation Distortion

- 13.2.4.4.1.8.1. Attenuation distortion, also known as frequency distortion or gain slope, measures the variations in loss at different frequencies across the voice frequency spectrum (200 Hz - 3400 Hz). It is measured by subtracting the loss at 1004 Hz from the loss at the frequency of interest.
- 13.2.4.4.1.8.2. Attenuation distortion from the NID to the switch shall be within the range ± 0.5 dB for frequencies between 304 and 3004 Hz; from the switch to NID attenuation distortion shall be within the range ± 0.5 dB for frequencies between 204 Hz and 3004 Hz. In addition, attenuation distortion shall remain within the range +1dB/-3dB for frequencies between 200 Hz and 3500 Hz.
- 13.2.4.4.1.9. Envelope Delay Distortion
- 13.2.4.4.1.9.1. Envelope Delay Distortion (EDD) measures the difference in transit time of signals at different frequencies. EDD is measured relative to the transit time of a 1704 Hz. tone, and is given in microseconds. EDD is used as an approximation of the group delay of the channel.
- 13.2.4.4.1.9.2. EDD shall be: 1704 Hz to 604 Hz -- ≤ 350 msec.; 1704 Hz to 2804 Hz -- ≤ 195 msec.; 1704 Hz to 204 Hz -- ≤ 580 msec.; 1704 Hz to 3404 Hz -- ≤ 400 msec.
- 13.2.4.4.1.10. Phase Jitter
- 13.2.4.4.1.10.1. Phase jitter measures the unwanted angular modulation of a signal. It is caused by noise or the actual modulation of the signal by another unwanted signal. It displaces the zero crossings of a signal. It is measured in terms of peak-to-peak deviations of a 1004 Hz. tone from its nominal zero crossings, and in a particular frequency band (20-300 Hz and either 4-300 Hz or 2-300 Hz). Phase jitter impacts voiceband data performance and can make modems more susceptible to other impairments, including noise.
- 13.2.4.4.1.10.2. From the NID to the interexchange carrier point of termination, phase jitter shall be $<1.5^\circ$ point-to-point in the 20-300 Hz band, and $<1.8^\circ$ point-to-point in the 4-300 Hz. band.
- 13.2.4.4.1.11. Amplitude Jitter
- 13.2.4.4.1.11.1. Amplitude jitter is any deviation of the peak value of a 1004 Hz signal from its nominal value. Excessive amounts can impair voiceband data performance. It is primarily caused by noise but

can also be caused by phase jitter, gain hits, or single frequency interference.

13.2.4.4.1.11.2. In NID-interexchange carrier point of termination, $\leq 2.5\%$ of amplitude jitter is permitted in the 20-300 Hz band and $\leq 2.9\%$ in the 4-300 Hz band.

13.2.4.4.1.12. Intermodulation Distortion

13.2.4.4.1.12.1. Intermodulation distortion (IMD) measures non-linear distortions of a signal. It compares the power of harmonic tones to the power of the transmitted tones. It is measured for both the 2nd and 3rd harmonics of the transmitted tones. IMD is caused by compression or clipping and can impair voiceband data performance. Both 2nd and 3rd order IMD between the NID and end office must be $\geq 52\text{dB}$.

13.2.4.4.1.13. Impulse Noise

13.2.4.4.1.13.1. Impulse noise is a sudden and large increase in noise on a channel for a short duration of time. Impulse noise is measured as a count of the number of times a noise threshold is exceeded during a given time period (typically 5 or 15 minutes). It is caused by protection switching, maintenance activities, electromechanical switching systems, digital transmission errors, and line coding mismatches. Impulse noise sounds like clicking noises or static on voice connections. Impulse noise impairs voiceband data performance.

13.2.4.4.1.13.2. The NID to interexchange carrier point of termination portions of connections shall introduce no impulse noise events within 6dB of the received signal power on 93% of all 15 minute connections. In addition, there shall be no more than 1 impulse noise event within 6 dB of the received signal power during any 30-minute period.

13.2.4.4.1.14. Phase Hits

13.2.4.4.1.14.1. Phase hits are a sudden change in the phase of a signal lasting at least 4 msec. Phase hits are measured using a threshold which indicates how much the phase of the signal has changed with respect to its nominal phase. Phase hits are caused by protection switching and slips or other synchronization errors. Phase hits can impair voiceband data performance.

- 13.2.4.4.1.14.2. Between the NID and interexchange carrier point of termination, 99.75% of all 15-minute connections shall have no phase hits exceeding 10°. In addition, there shall be no more than 1 phase hit exceeding 10° in any 30-minute period.
- 13.2.4.4.1.15. Gain Hits
- 13.2.4.4.1.15.1. Gain hits are sudden changes in the level of a signal that last at least 4 msec. Gain hits are measured against a threshold of typically 2-5 dB relative to the signal's nominal level. Gain hits are usually caused by protection switches and can impair voiceband data performance.
- 13.2.4.4.1.15.2. Between the NID and the interexchange carrier point of termination, 99.5% of all 15-minute connections shall have no gain hits exceeding 3 dB. In addition, there shall be no more than 1 gain hit exceeding 3 dB in any 30-minute period.
- 13.2.4.4.1.16. Dropouts
- 13.2.4.4.1.16.1. Dropouts are drops in the level of a signal of 12 dB or more for at least 4 msec. They are caused by protection switching events, radio fading, and conditions causing digital carrier systems to lose frame. Dropouts are critical for voiceband data performance but, if severe enough, will also affect voice quality.
- 13.2.4.4.1.16.2. Between the NID and the interexchange carrier point of termination, 99.9% of all 15-minute connections shall have no dropouts and in addition, no connection shall suffer more than 1 dropout in any 60-minute period.
- 13.2.4.4.1.17. Frequency Shift
- 13.2.4.4.1.17.1. Frequency shift measures any frequency changes that occur when a signal is transmitted across a channel. It is typically measured using a 1004 Hz tone. Frequency shift has very little impact on voice or voiceband data performance; however, round-trip frequency shifts can affect the ability of echo cancelers to remain converged.
- 13.2.4.4.1.17.2. No more than 0.2 Hz frequency shift shall be on any connection. In addition, 99.5% of all calls shall have frequency shift < 0.1 Hz.
- 13.2.4.4.1.18. Crosstalk

- 13.2.4.4.1.18.1. Crosstalk is the presence of signals from other telephone connections on a circuit. Crosstalk can be either intelligible, when speech from other connections can be heard and understood, or unintelligible. Crosstalk is caused by inter-channel interference on the transmission system. Crosstalk is difficult to measure: it requires correlating signals on different circuits or using human listeners to identify its presence. Trouble reports may be used to estimate the probability of crosstalk.
- 13.2.4.4.1.18.2. 99% of Loop Combinations shall have probability $\leq 0.1\%$ of experiencing crosstalk exceeding -65 dBm0.
- 13.2.4.4.1.19. Clipping
- 13.2.4.4.1.19.1. Clipping occurs when part of a transmitted signal is dropped and does not reach the receiving portion on a connection. It can be caused by Digital Speech Interpolation (DSI) equipment used in Digital Circuit Multiplication Systems (DCMS) which increase the amount of traffic that transmission facilities carry, and by echo cancelers or echo suppressers.
No clipping incidents shall occur on any call.
- 13.2.4.4.2. Digital Impairments
Digital impairments occur in the signal wherever it is transmitted in digital format. These errors are usually introduced upon conversion of the signal from analog to digital, as well as at interfaces between digital components. While many digital impairments have little impact on subjective voice quality, they can impact voiceband data performance.
- 13.2.4.4.2.1. Signal Correlated Distortion
- 13.2.4.4.2.1.1. Signal correlated distortion (SCD) is unwanted noise or distortion introduced into a signal through the conversion of a signal from analog to digital format or through digital processing that changes the transmitted signal. SCD affects performance when a sign is being transmitted. The primary sources of SCD are signal encoders, echo cancelers, digital loss pads, and robbed bit signaling. SCD affects both voice and voiceband data performance.
- 13.2.4.4.2.1.2. The NID-to-end-office connection shall allow:

- 13.2.4.4.2.1.2.1. A maximum of 1 A/D conversion, using 64Kbps m-law (m=255) PCM;
- 13.2.4.4.2.1.2.2. No voice compression;
- 13.2.4.4.2.1.2.3. No echo cancellation; and
- 13.2.4.4.2.1.2.4. Robbed bit signaling only if SS7 or ISDN are not used.
- 13.2.4.4.2.2. Slips
 - 13.2.4.4.2.2.1. Slips occur when a frame of digital data is either deleted or repeated because of differences in the clocks used to synchronize digital facilities. Slips sound like clicks or pops on voice calls and have major impact on voiceband data performance.
 - 13.2.4.4.2.2.2. The NID-to-interexchange carrier point of termination portion of connections shall have fewer than 0.45 slips every 24 hours on average.
- 13.2.4.4.2.3. Digital Timing Jitter and Wander
 - 13.2.4.4.2.3.1. Digital timing jitter is the unwanted phase modulation of digital signals at rates above 10 Hz. Wander is the unwanted phase modulation of digital signals at rates below 10 Hz. Digital timing jitter is caused by imperfections in the timing recovery process of repeaters and the stuffing synchronization process used by multiplexer/demultiplexers. Wander is caused by slowly varying changes in digital signal phase due to clock frequency offset and drift, changes in propagation delay of terrestrial facilities due to temperature changes and changes in the distance of satellites from the earth. These events have a major impact on voiceband data performance.
 - 13.2.4.4.2.3.2. The maximum digital timing jitter allowed in the 10 Hz to 8 kHz frequency band at any network interface or any terminal equipment in the network is 5 Unit Intervals (UI). The maximum digital timing jitter allowed in the 8 kHz to 40 kHz frequency band is 0.1 UI. The objective for wander is less than 28 UI at any network interface or terminal equipment.
- 13.2.4.4.2.4. DS-1 Errored Seconds
 - 13.2.4.4.2.4.1. An Errored Second (ES) on a DS-1 facility is any second during which at least 1 bit is in error. The impact of an ES on performance

depends on the number of errors that occur during a second. Typically, voice performance is not significantly impacted by ES but they can cause errors in voiceband data transmissions.

13.2.4.4.2.4.2. Each GTE network shall have less than 20 ESs per 24 hour period.

13.2.4.4.2.5. DS-1 Severely Errored Seconds

13.2.4.4.2.5.1. A severely Errored Second (SES) is any second during which a DS-1 has an error rate exceeding 0.001. An SES can be caused by a loss of framing, a slip, or a protection switch. SESs have impacts on both voice and voiceband data performance. For voice, an SES will sound like a burst of noise or static. SESs that occur during a voiceband data transmission cause a significant burst of errors and can cause modems to retrain.

13.2.4.4.2.5.2. The digital portion of each NID to POP connection shall have less than 2 SESs per 24 hour period).

13.2.4.4.2.6. Short Failure Events

13.2.4.4.2.6.1. A Short Failure Event (SFE) is a Loss of Frame (LOF) event of less than two minutes' duration. An LOF event is declared when, on detection of a Loss of Signal (LOS) or Out-of-Frame (OOF), a rise-slope-type integration process starts that declares a LOF after 2.5 ± 0.5 sec. of continuous LOS or OOF. If the LOS or OOF is intermittent, the integration process shall decay at a slope of 1/5 the rise slope during the period when the signal is normal. Thus, if the ratio of a LOS or OOF to a normal signal is greater than 1/2, a LOF will be declared. A LOS condition shall be declared when the Network Channel Terminating Equipment has determined that 175 ± 75 successive pulse positions with no pulses of either positive or negative polarity have occurred. An OOF condition shall be declared when either Network equipment or Digital Terminal Equipment detects errors in the framing pattern.

13.2.4.4.2.6.2. There shall be fewer than 1 SFE per month.

13.2.4.5. Service Availability and Reliability

Availability refers to the time period during which the service is up and usable for its intended purpose. Reliability refers to the probability that a task will be completed successfully, given that it is successfully begun.

13.2.4.5.1. Blocked Calls

13.2.4.5.1.1. Blocking is the fraction of call origination attempts denied service during a stated measurement period. Blocking occurs because of competition for limited resources within the network.

13.2.4.5.1.2. For intraLATA toll service as well as for local exchange service, the blocking level from originating network interface (NID) to terminating NID shall not exceed 1% in any hour, except under conditions of service disruption. For access to or egress from the Focal long distance network, the blocking rate shall not exceed 0.5% in any hour, except under conditions of service disruption.

13.2.4.5.2. Blocked Dial Tone

13.2.4.5.2.1. Blocked dial tone occurs when the subscriber does not receive dial tone within 3 seconds of going off-hook.

13.2.4.5.2.2. Customers shall not experience more than 0.1% dial tone blocking during average busy season busy hour (ABSBH).

13.2.4.5.3. Downtime

Downtime is the period of time that a system is in a failed state.

13.2.4.5.3.1. The average downtime for all subscriber Loop Combinations shall be less than 49 minutes per year. The maximum downtime for 99% of all subscriber Loop Combinations shall be less than 74 minutes per year.

13.2.4.5.3.2. The average downtime for an end office switch shall be less than 3 minutes per year. The average downtime for individual trunks shall be less than 28 minutes per year. The average downtime for digital trunk groups shall be less than 20 minutes per year. The average downtime for an individual line appearance at the switch shall be less than 28 minutes per year. The average downtime for a Remote Terminal (RT) shall be less than 17 minutes per year. The average downtime for an individual line on a Remote Terminal (RT) shall be less than 13 minutes per year.

13.2.4.5.3.3. The mean time to repair (MTTR) of any equipment at an attended site shall be less than 3 hours. The mean time to repair (MTTR) of any equipment at an unattended site shall be less than 4 hours. 95% of all repairs to the network interface (NID) shall be completed within 24 hours.

- 13.2.4.5.3.4. There shall be no downtime due to power failures at the switch.
- 13.2.4.5.3.5. The probability of a stable call being cut off shall be less than 20 cutoffs per one million 1 minute calls.
- 13.2.4.5.3.6. The rate of ineffective machine attempts at the end office shall be less than 0.0005 (5 failures per 10,000 call attempts).
- 13.2.4.5.3.7. GTE shall meet all requirements for private line services in TR-NWT-000335, ANSI T1.512-1994, and Focal Technical References as listed in this Section 13.2.
- 13.2.4.5.4. Dial Tone Delay
- 13.2.4.5.4.1. Dial-Tone Delay is the time period between a customer off-hook and the receipt of dial tone from an originating end office. Dial-Tone Delay has a significant effect on customer opinion of service quality.
- 13.2.4.5.4.2. The average dial-tone delay shall not exceed 0.6 seconds. At most 0.5% of calls during the average-season busy hour (ABSBH) shall experience dial-tone delay greater than 3 seconds. At most 8% of calls during the ten-high-day busy hour (THDBH) shall experience dial-tone delay greater than 3 seconds. At most 10% of calls during the high-day busy hour (HDBH) shall experience dial-tone delay greater than 3 seconds.
- 13.2.4.5.5. Dial Tone Removal
- 13.2.4.5.5.1. Dial tone removal is the time between recognition of the first address digit to the removal of dial tone on the line.
The maximum dial tone removal interval shall be ≤ 500 milliseconds.
- 13.2.4.5.6. Post Dial Delay
- 13.2.4.5.6.1. Post Dial Delay (PDD) is the amount of time a caller must wait after entering or dialing the last digit of a Destination Telephone Number (DTN) before hearing a valid audible network response. The PDD for an end user is measured from the time the caller has pressed or dialed the last digit of a DTN until receipt of an audible network response.

- 13.2.4.5.6.2. The requirements given reflect an end-to-end CCS7 protocol for Focal end users. Where a mixture of CCS7 and inband (MF) signaling protocols are employed, an increase in the PDD can be expected.
- 13.2.4.5.6.2.1. PDD 1 - A - Intra Focal LSO
 - 13.2.4.5.6.2.1.1. Intra-LSO calls do not employ external signaling protocols. The PDD for intra-LSO calls flows are dependent upon the processor cycle time and traffic load conditions. This PDD is assumed to be between customers on the same Focal LSO, between the Remote Switch Modules (RSMs) on the same Host, or between an RSM and 5ESS Host customers.
 - 13.2.4.5.6.2.1.2. The objective for intra-LSO PDD is less than 310 milliseconds for 50% of all calls and less than 460 milliseconds for 95% of all calls.
- 13.2.4.5.6.2.2. PDD1 - B - Focal LSO to Another Focal Local LSO
 - 13.2.4.5.6.2.2.1. The signaling protocols from an Focal LSO to another Focal LSO are assumed to employ out-of-band Common Channel Signaling System 7 (CCS7) format. Local calls, that is, calls from an Focal LSO to another Focal LSOs are assumed to have no more than one pair of Signaling Transfer Point Switches (STPSs) and no more than one data base dip.
 - 13.2.4.5.6.2.2.2. This PDD is expected to be better than the Focal Long Distance objective with an average PDD of $\leq .870$ seconds with 95% ≤ 1.34 seconds.
- 13.2.4.5.6.2.3. PDD1 - C - Focal LSO to Other LSO
 - 13.2.4.5.6.2.3.1. Calls from an Focal LSO to other LSOs are dependent upon the interface agreements between Focal and the LSO service provider and may employ CCS7, inband (MF) or a combination of both protocols.
 - 13.2.4.5.6.2.3.2. Calls from an Focal LSO to another LSO via the Public Switched Telecommunications Network (PSTN), using end-to-end CCS7 signaling protocols, can expect to meet the Focal PDD objectives of an average of 2.0 seconds with 95% in ≤ 2.5 seconds. Calls from an Focal LSO via the PSTN to LSOs outside the local service area are assumed to use CCS7 signaling protocols to the Focal #4ESS. The egress signaling protocols from the Focal Switched Network (ASN) to the many different local telephone company

service providers however does not necessarily utilize CCS7 signaling. There are three basic egress signaling configuration. They are:

- 13.2.4.5.6.2.3.2.1. Network Inter-Connect, CCS7 between Focal and the local telephone company.
- 13.2.4.5.6.2.3.2.2. Inband Multifrequency (MF) signaling protocols without a GTE egress tandem in the connection.
- 13.2.4.5.6.2.3.2.3. Inband MF signaling protocols with a GTE egress tandem in the connection.
- 13.2.4.6.3.2.3.2.3.1 Calls from an Focal LSO to other LSOs outside the local service area are assumed to have multiple STPSs for 1+ traffic in the access and ASN portion of the connection. The egress from the ASN for 1+ traffic is again dependent upon the interface agreements in that service area and may consist of CCS7 or inband MF protocols.
- 13.2.4.6.3.2.3.2.3.2 Calls from an Focal's LSO to another Focal LSO with a mixture of CCS7 or all inband signaling protocols are expected to receive PDDs on the average of 2.9 seconds with 95% in ≤ 6.5 seconds.
- 13.2.4.5.6.2.4. PDD2 - Focal LSO to Operator Services
 - 13.2.4.5.6.2.4.1. The signaling protocols between an Focal LSO and the Focal ASN 5ESS® Operator Services Position Systems (OSPS) will employ IN-band Feature Group C Modified Operator Services Multifrequency signaling format. As with 1+ traffic, the egress from the ASN to the local service providers LSO is dependent upon the interface.
- 13.2.4.5.6.2.5. PDD2 - A - Focal LSO to 5ESS® OSPS 0 Only
 - 13.2.4.5.6.2.5.1. When a "0" has been entered by the customer, timing is applied in the absence of a DTMF "#". If a "#" is not entered, the objective is for the timer to expire in 4 seconds +/- 1 second. After the timer has expired, or the "#" has been entered, the average PDD shall not exceed 2.2 seconds.
- 13.2.4.5.6.2.6. PDD2 - B - 0 Plus Calls
 - 13.2.4.5.6.2.6.1. On calls where analysis of the first 6 digits (area code + central office code) is required, the PDD shall not exceed 2.0 seconds on the average, and 2.5 seconds in 95% of all occurrences. For calls

that require analysis of the 10-digits CALLED number and the 7 digits of calling number (ANI, e.g. Automatic Charge Quotation Service) the PDD is expected to be 4.5 seconds on the average and < 5.0 seconds in 95% of all occurrences. These delays are based on the calling customer receiving a network response as described above, specifically the calling card alerting tone from the 5ESS® OSPS. The remaining call completion PDD to the DTN, after the customer has completed the Operator Service function, will take the form of the PDDs discussed in PDD1-C.

13.2.4.5.6.2.7. Impact of Local Number Portability (LNP)

13.2.4.5.6.2.7.1. Local Number Portability will increase PDDs. If a call forwarding option is used as an interim solution for LNP, the delay due to additional switching in the local access is estimated to be 0.3 seconds (mean) and 0.4 seconds (95th percentile) in addition to the PDDs described earlier. These estimates assumes CCS7 signaling between LSOs. If inband signaling is used between LSOs, the PDD will be increased by 1.9 to 3.6 (1.7+1.9) seconds compared to the PDDs provided in the section on Post Dial Delay.

13.2.4.5.6.2.8. Custom Local Area Subscriber Services (CLASS)

13.2.4.5.6.2.8.1. CLASSSM features such as Calling Name Delivery can contribute to the PDD of a call. This delay is caused by the additional time (GTE option) before the ringing interval commences. This default delay is 3 seconds. Optional settings are available in 1 second intervals from 1 to 6 seconds. Calls to DTNs that have CLASSSM features, particularly with calling name delivery, can expect to experience from 1 to 6 seconds (3 seconds default) of additional PDD compared to the PDDs shown for PDD1-C.

13.2.4.5.6.2.9. Partial Dial Timing

13.2.4.5.6.2.9.1. The interval between each information digit from a customer's line, until the LSO or switching system has determined that the digit string is incomplete.

13.2.4.5.6.2.9.2. For customer lines, partial dial timing shall be ≥ 16 seconds and ≤ 24 seconds. For trunks, inband signaling time-out shall be ≥ 5 seconds and ≤ 20 seconds.

13.2.5. Test and Verification

- 13.2.5.1. GTE will provision, test, and restore any Network Element to the appropriate technical specifications for such Network Element.
- 13.2.5.1.1. At Focal's request, GTE will provide access to the Network Element sufficient for Focal to test the performance of that Network Element to Focal's satisfaction.
- 13.2.5.1.2. GTE will perform all necessary testing to provision and restore a Network Element to technical specifications. When GTE documents the performance of a test, GTE will provide such test results to Focal.

13.3. Protection, Restoration, and Disaster Recovery

13.3.1. Scope:

This Section refers specifically to requirements on the use of redundant network equipment and facilities for protection, restoration, and disaster recovery.

13.3.2. Requirements

- 13.3.2.1. GTE shall provide protection, restoration, and disaster recovery capabilities at parity with those capabilities provided for GTE's own services, facilities and equipment (e.g., equivalent circuit pack protection ratios, facility protection ratios).
- 13.3.2.2. GTE shall provide Network Elements and Ancillary Functions equal priority in protection, restoration, and disaster recovery as provided to GTE's own services, facilities and equipment.
- 13.3.2.3. GTE shall provide Network Elements and Ancillary Functions equal priority in the use of spare equipment and facilities as provided to GTE's own services, facilities and equipment.
- 13.3.2.4. GTE shall restore Network Elements which are specific to Focal end user customers on a priority basis as Focal may designate.

13.4. Synchronization

13.4.1. Definition

Synchronization is the function which keeps all digital equipment in a communications network operating at the same average frequency. With respect to digital transmission, information is coded into discrete pulses. When these pulses are transmitted through a digital communications network, all synchronous Network Elements are traceable to a stable and accurate timing source. Network synchronization is accomplished by timing all synchronous Network Elements in the network to a stratum 1 traceable timing source so that transmission from these network points have the same average line rate.

13.4.2. Technical Requirements

The following requirements are applicable to the case where GTE provides synchronization to equipment that Focal owns and operates within a GTE location. In addition, these requirements apply to synchronous equipment that is owned by GTE and is used to provide a Network Element to Focal.

13.4.2.1. The synchronization of clocks within digital networks is divided into two parts: intra-building and inter-building. Within a building, a single clock is designated as the Building Integrated Timing Supply (BITS), which provides all of the DS1 and DS0 synchronization references required by other clocks in such building. This is referred to as intra-building synchronization. The BITS receives synchronization references from remotely located BITS. Synchronization of BITS between buildings is referred to as inter-building synchronization.

13.4.2.2. To implement a network synchronization plan, clocks within digital networks are divided into four stratum levels. All clocks in strata 2, 3, and 4 are synchronized to a stratum 1 clock, that is, they are traceable to a stratum 1 clock. A traceable reference is a reference that can be traced back through some number of clocks to a stratum 1 source. Clocks in different strata are distinguished by their free running accuracy or by their stability during trouble conditions such as the loss of all synchronization references.

13.4.2.2.1. Intra-Building

13.4.2.2.1.1. Within a building, there are different kinds of equipment that require synchronization at the DS1 and DS0 rates. Synchronization at the DS1 rate is accomplished by the frequency synchronizing presence of buffer stores at various DS1 transmission interfaces. Synchronization at the DS0 rate is accomplished by using a

composite clock signal that phase synchronizes the clocks. Equipment requiring DS0 synchronization frequently does not have adequate buffer storage to accommodate the phase variations among different equipment. Control of phase variations to an acceptable level is accomplished by externally timing all interconnecting DS0 circuits to a single clock source and by limiting the interconnection of DS0 equipment to less than 1,500 cable feet. Therefore, a BITS shall provide DS1 and composite clock signals when appropriate. The composite signal is a 64-kHz 5/8th duty cycle, return to zero with a bipolar violation every eighth pulse (B8RZ).

13.4.2.2.2. Inter-Building

13.4.2.2.2.1. GTE shall provide inter-building synchronization at the DS1 rate, and the BITS shall accept the primary and secondary synchronization links from BITS in other buildings. From hierarchical considerations, the BITS shall be the highest stratum clock within the building and GTE shall provide operations capabilities (this includes, but is not limited to: synchronization reference provisioning; synchronization reference status inquiries; timing mode status inquiries; and alarm conditions).

13.4.3. Synchronization Distribution Requirements

13.4.3.1. Central office BITS shall contain redundant clocks meeting or exceeding the requirements for a stratum 2 clock as specified in ANSI T1.101-1994 and Bellcore TR-NWT-001244 Clocks for the Synchronized Network: Common Generic Criteria.

13.4.3.2. Central office BITS shall be powered by primary and backup power sources.

13.4.3.3. If both reference inputs to the BITS are interrupted or in a degraded mode (meaning off frequency greater than twice the minimum accuracy of the BITS, loss of frame, excessive bit errors, or in Alarm Indication Signal), then the stratum clock in the BITS shall provide the necessary bridge in timing to allow the network to operate without a frame repetition or deletion (slip free) with better performance than 1 frame repetition or deletion (slip) per week.

13.4.3.4. DS1s multiplexed into a SONET synchronous payload envelope within an STS-n (where n is defined in ANSI T1.105-1995) signal shall not be used as reference facilities for network synchronization.

- 13.4.3.5. The total number of Network Elements cascaded from the stratum 1 source shall be minimized.
- 13.4.3.6. A Network Element shall receive the synchronization reference signal only from another Network Element that contains a clock of equivalent or superior quality (stratum level).
- 13.4.3.7. GTE shall select for synchronization those facilities shown to have the greatest degree of availability (absence of outages).
- 13.4.3.8. Where possible, all primary and secondary synchronization facilities shall be physically diverse (this means the maximum feasible physical separation of synchronization equipment and cabling).
- 13.4.3.9. No timing loops shall be formed in any combination of primary and secondary facilities.
- 13.4.3.10. An Operations Support System (OSS) shall continuously monitor the BITS for synchronization related failures or degradation.
- 13.4.3.11. An OSS shall continuously monitor all equipment transporting synchronization facilities for synchronization related failures or degradation.
- 13.4.3.12. For non-SONET equipment, GTE shall provide synchronization facilities which, at a minimum, comply with the standards set forth in ANSI T1.101-1994.
For SONET equipment, GTE shall provide synchronization facilities that have time deviation (TDEV) for integration times greater than 0.05 seconds and less than or equal to 10 seconds, that is less than or equal to 10 nanoseconds. TDEV, in nanoseconds, for integration times greater than 10 seconds and less than 1000 seconds, shall be less than 3.1623 times the square-root of the integration time. For example, for integration times of 25 seconds, TDEV shall be less than 15.8 nanoseconds.

13.5. SS7 Network Interconnection

13.5.1.

Definition:

SS7 Network Interconnection is the Interconnection of GTE Signal Transfer Points (STPs) with Focal STPs or Focal local or tandem switching systems. This connectivity enables the exchange of SS7 messages between Focal local or tandem switching systems and GTE's local or tandem switching systems, and between Focal local

or tandem switching systems and other third-party local or tandem switching systems with signaling connectivity to the same STPs. This connectivity also enables the exchange of messages between Focal local or tandem switching systems, and GTE databases.

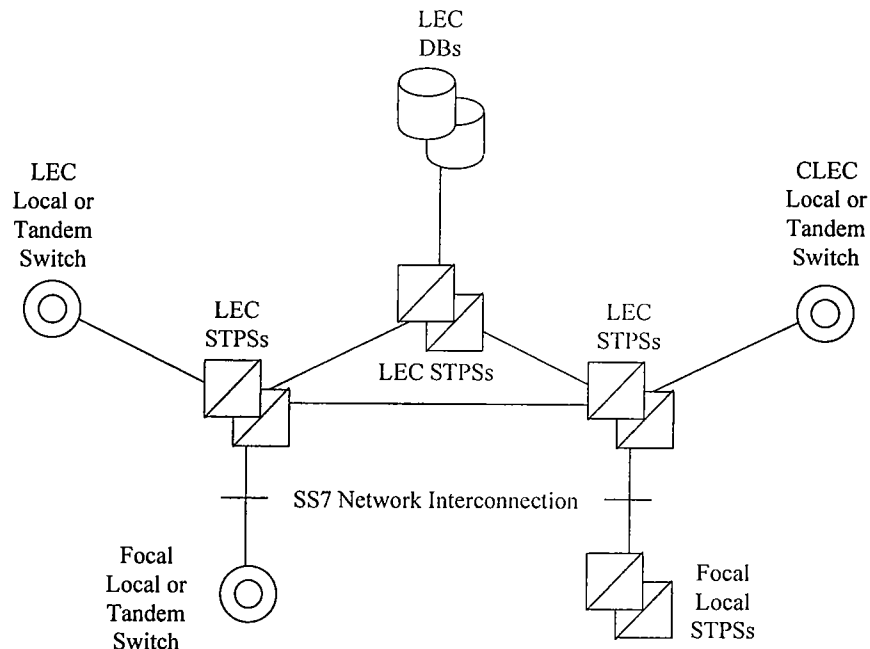


Figure 3. SS7 Network Interconnection

13.5.2. Technical Requirements

13.5.2.1. SS7 Network Interconnection shall provide connectivity to all components of the GTE SS7 network. These include:

13.5.2.1.1. GTE local or tandem switching systems;

13.5.2.1.2. GTE DBs; and

13.5.2.1.3. Other third-party local or tandem switching systems.

13.5.2.2. The connectivity provided by SS7 Network Interconnection shall fully support the functions of GTE switching systems and DBs and Focal or other third-party switching systems with A-link access to the GTE SS7 network.

13.5.2.3. In particular Figure 4 depicts a circumstance where SS7 Network Interconnection shall provide transport for certain types of

Transaction Capabilities Application Part (TCAP) messages. If traffic is routed based on dialed or translated digits between an Focal local switching system and a GTE or other third-party local switching system, either directly or via a GTE tandem switching system, then it is a requirement that the GTE SS7 network convey via SS7 Network Interconnection the TCAP messages that are necessary to provide Call Management services (Automatic Callback, Automatic Recall, and Screening List Editing) between the Focal local STPSs and the GTE or other third-party local switch.

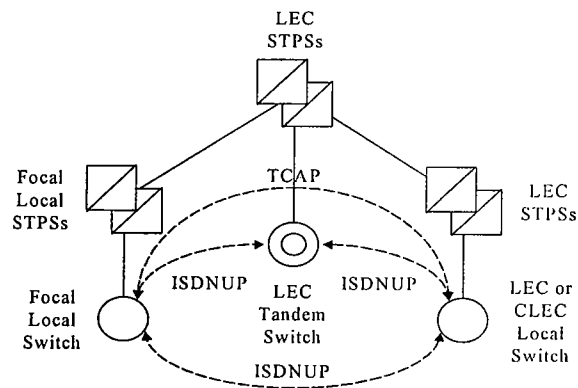


Figure 4. Interswitch TCAP Signaling for SS7 Network Interconnection

- 13.5.2.4. When the capability to route messages based on Intermediate Signaling Network Identifier (ISNI) is generally available on GTE STPSs, the GTE SS7 Network shall also convey TCAP messages using SS7 Network Interconnection in similar circumstances where the GTE switch routes traffic based on a Carrier Identification Code (CIC).
- 13.5.2.5. SS7 Network Interconnection shall provide all functions of the MTP as specified in ANSI T1.111. This includes Signaling Data Link functions, as specified in ANSI T1.111.2; Signaling Link functions, as specified in ANSI T1.111.3; and Signaling Network Management functions, as specified in ANSI T1.111.4.
- 13.5.2.6. SS7 Network Interconnection shall provide all functions of the SCCP necessary for Class 0 (basic connectionless) service, as specified in ANSI T1.112 (Reference 13.5.2.5). In particular, this includes Global Title Translation (GTT) and SCCP Management procedures, as specified in T1.112.4. Where the destination signaling point is a GTE switching system or DB, or is another third-party local or tandem switching system directly connected to the GTE SS7 network, SS7 Network Interconnection shall include final GTT of messages to the destination and SCCP Subsystem Management of the destination. Where the destination signaling point is an Focal local or tandem switching system, SS7 Network Interconnection shall include intermediate GTT of messages to a gateway pair of Focal local STPSs, and shall not include SCCP Subsystem Management of the destination.
- 13.5.2.7. SS7 Network Interconnection shall provide all functions of the Integrated Services Digital Network User Part (ISDNUP), as specified in ANSI T1.113 (Reference 13.5.2.5).
- 13.5.2.8. SS7 Network Interconnection shall provide all functions of the TCAP, as specified in ANSI T1.114 (Reference 13.5.2.5).
- 13.5.2.9. If and when Internetwork MTP Routing Verification Test (MRVT) and SCCP Routing Verification Test (SRVT) become approved ANSI standards and available capabilities of GTE STPSs, SS7 Network Interconnection shall provide these functions of the OMAP.

13.5.3. Link Interface Requirements

13.5.3.1. GTE shall offer the following SS7 Network Interconnection options to connect Focal or Focal-designated local or tandem switching systems or STPSs to the GTE SS7 network:

13.5.3.1.1. A-link interface from Focal local or tandem switching systems; and

13.5.3.1.2. D-link interface from Focal STPSs.

13.5.3.2. Each interface shall be provided by one or more sets (layers) of signaling links, as follows:

13.5.3.2.1. An A-link layer shall consist of two links, as depicted in Figure 5.

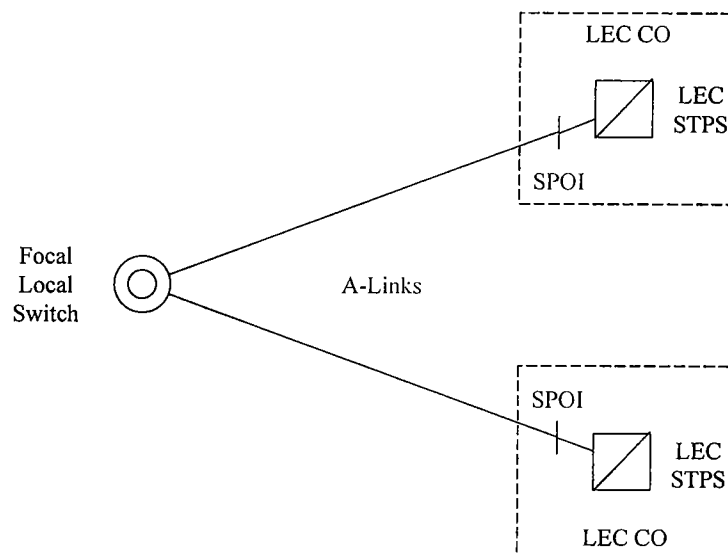


Figure 5. A-Link Interface

13.5.3.2.2. A D-link layer shall consist of four links, as depicted in Figure 6.

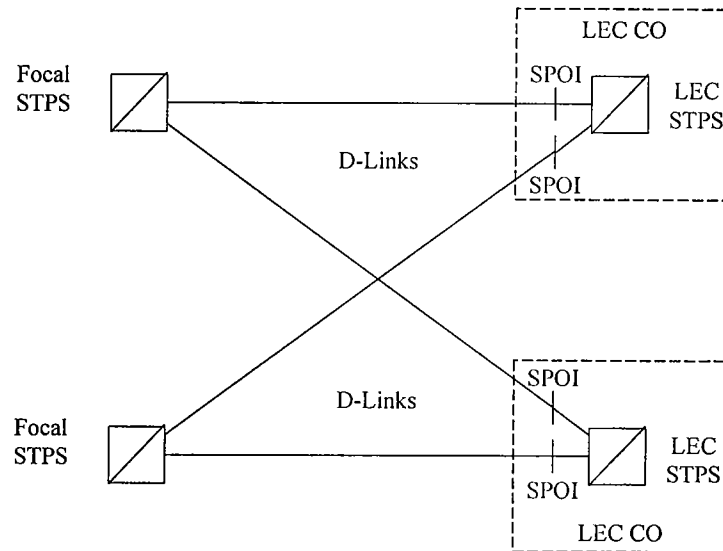


Figure 6. D-Link Interface

13.5.3.3. The Signaling Point of Interconnection (SPOI) for each link shall be located at a cross-connect element, such as a DSX-1, in the Central Office (CO) where the GTE STPS is located. There shall be a DS1 or higher rate transport interface at each of the SPOIs. Each signaling link shall appear as a DS0 channel within the DS1 or higher rate interface. GTE shall offer higher rate DS1 signaling links for interconnecting Focal local switching systems or STPSs with GTE STPSs as soon as these become approved ANSI standards and available capabilities of GTE STPSs.

13.5.3.4. GTE CO shall provide intraoffice diversity between the SPOIs and the GTE STPS, so that no single failure of intraoffice facilities or equipment shall cause the failure of both D-links in a layer connecting to a GTE STPS.

13.5.3.5. The protocol interface requirements for SS7 Network Interconnection include the MTP, ISDNUP, SCCP, and TCAP. These protocol interfaces shall conform to the specifications contained in the technical references listed in Appendix A to this Attachment 2, under paragraph 14.

13.5.3.6. SS7 Network Interconnection shall be provided to Focal in accordance with the technical references listed in Appendix A to this Attachment 2, under paragraph 15.

14. **Unused Transmission Media**

14.1. **Definitions:**

14.1.1. Unused Transmission Media is physical inter-office transmission media (e.g., optical fiber, from an LGX in one central office to another LGX in another central office, copper twisted pairs from the MDF of one central office to the MDF in another central office, coaxial cable) which has no lightwave or electronic transmission equipment terminated to such media to operationalize its transmission capabilities. This media may exist in aerial or underground structure or within a building.

14.1.2. Dark Fiber, one type of unused transmission media, is unused strands of optical fiber. Dark Fiber also includes strands of optical fiber existing in aerial or underground structure which have lightwave repeater (regenerator or optical amplifier) equipment interspliced to it at appropriate distances, but which has no line terminating elements terminated to such strands to operationalize its transmission capabilities

14.1.3. GTE is not responsible for the end-to-end performance in those applications where Focal is utilizing unused transmission media.

14.2. **Requirements**

14.2.1. GTE shall make available, for lease by Focal, its dark fiber in the feeder segment of GTE's loops and, when Focal has collocation space in a GTE tandem or end office, in the dedicated interoffice transport segment of GTE's network, subject to the conditions and requirements set forth in sections 14.2.2 through 14.3.2.

14.2.1.1. Focal will bear the cost of extending dark fiber in the feeder segment of GTE's network to Focal end-user premises or Focal's facility access locations within the loop access network.

- 14.2.2. GTE shall provide a Single Point of Contact (SPOC) for negotiating all Unused Transmission Media lease agreements.
- 14.2.3. Focal may test the quality of the Unused Transmission Media to confirm its usability and performance specifications. Focal may only test from its point of physical collocation, Focal's end-user premises or Focal's facility access locations at which Focal has access to such unused Transmission Media. For virtual collocation applications, GTE will perform test(s) on the dark fiber as requested by Focal and provide the results of the test(s) to Focal, at Focal's expense. Should such test results not meet Focal specifications, GTE will only be obligated to perform those maintenance activities it would have performed for itself.
- 14.2.4. Upon receipt of a bona fide request, GTE shall provide to Focal information regarding the location, availability of Unused Transmission Media within twenty (20) business days after receiving a request for a specific location from Focal.
- 14.2.5. GTE shall make Unused Transmission Media available to Focal within twenty (20) business days after it receives written confirmation from Focal that the Unused Transmission Media previously deemed available by GTE is wanted for use by Focal at the price established by the Commission or at an agreed upon lease price if the Commission does not establish a price. If a written confirmation is not received from Focal within thirty (30) business days after verification of availability, GTE may make such Unused Transmission Media available for its own use or, may make it available to another requesting party.
- 14.2.6. In leasing loop feeder dark fiber and dedicated interoffice dark fiber to Focal, GTE will allocate its dark fiber capacity among requesting CLECs on a first-come, first-served basis and in a competitively neutral manner.
- 14.3. **Requirements Specific to Dark Fiber**
- 14.3.1. Focal will provide sufficient fiber cable from their LGX located in their physical collocation space to allow GTE personnel to terminate the GTE LGX. Where Focal is obtaining access to dark fiber through virtual collocation, Focal will provide the appropriate electronic equipment to terminate the fiber and GTE will provide the cross connection of the fiber to Focal's equipment at Focal's expense.

14.3.2.

In those applications where Focal requests optical regenerators, such regeneration will be provided by GTE on a case by case basis with additional costs to be borne by Focal. However, in all events, Focal may provide its own optical regenerators within Focal's physical/virtual collocation space.

APPENDIX A

1. The Network Interface Device (NID) shall be provided to Focal in accordance with the following technical references:
 - 1.1 Bellcore Technical Advisory TA-TSY-000120 "Customer Premises or Network Ground Wire";
 - 1.2 Bellcore Generic Requirement GR-49-CORE "Generic Requirements for Outdoor Telephone Network Interface Devices";
 - 1.3 Bellcore Technical Requirement TR-NWT-00239 "Indoor Telephone Network Interfaces";
 - 1.4 Bellcore Technical Requirement TR-NWT-000937 "Generic Requirements for Outdoor and Indoor Building Entrance"; and,
 - 1.5 Bellcore Technical Requirement TR-NWT-000133 "Generic Requirements for Network Inside Wiring."

2. The Loop shall be equal to or better than each of the applicable interface requirements set forth in the following technical references:
 - 2.1 Bellcore TR-NWT-000049, "Generic Requirements for Outdoor Telephone Network Interface Devices," Issued December 1, 1994;
 - 2.2 Bellcore TR-NWT-000057, "Functional Criteria for Digital Loop Carrier Systems," Issued January 2, 1993;
 - 2.3 Bellcore TR-NWT-000393, "Generic Requirements for ISDN Basic Access Digital Subscriber Lines";
 - 2.4 Bellcore TR-NWT-000253, SONET Transport Systems: Common Criteria (A module of TSGR, FR-NWT-000440), Issue 2, December 1991;
 - 2.5 AT&T Data Communications Technical Reference TR 62310, DS0 Digital Local Channel Description and Interface Specification, August 1993; Also Addendum 1 and Addendum 2; and

- 2.6 AT&T Technical Reference TR 62411, ACCUNET T1.5 Service Description and Interface Specification, December 1990; Addendum 1, March 1991; Addendum 2, October 1992.
- 2.7 AT&T Technical Reference TR 62421, ACCUNET Spectrum of Digital Services Description and Interface Specification, December 1989; Also TR 62421A Addendum 2, November 1992.
- 2.8 ANSI T1.106 - 1988, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (Single Mode).
- 2.9 ANSI T1.105 - 1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats.
- 2.10 ANSI T1.102 - 1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces.
- 2.11 ANSI T1.403- 1989, American National Standard for Telecommunications - Carrier to Customer Installation, DS1 Metallic Interface Specification
- 2.12 Bellcore GR-253-CORE, Synchronous Optical Network Systems (SONET), Common Generic Criteria.
- 2.13 AT&T Technical Reference TR 54014, ACCUNET T45 Reserved Services - Service Description and Interface Specification, May 1992.
- 2.14 AT&T Technical Reference TR 54018, ACCUNET T155 Service Description and Interface Specification.
- 2.15 Bellcore TR-TSY-000008, Digital Interface Between the SLC 96 Digital Loop Carrier System and a Local Digital Switch, Issue 2, August 1987.
- 2.16 Bellcore TR-NWT-000303, Integrated Digital Loop Carrier System Generic Requirements, Objectives and Interface, Issue 2, December 1992; Rev.1, December 1993; Supplement 1, December 1993.
- 2.17 Bellcore TR-TSY-000673, Operations Systems Interface for an IDLC System, (LSSGR) FSD 20-02-2100, Issue 1, September 1989.

- 2.18 AT&T Technical Reference TR-62415 "Access Specifications for High Capacity DS1/DS3 Dedicated Digital Service";
- 2.19 Bellcore Technical Requirement TR-NWT-000499, Issue 5, December 1993, section 7 for DS1 interfaces.

- 3. Local Switching shall be equal to or better than the requirements for Local Switching set forth in Bellcore's Local Switching Systems General Requirements (FR-NWT-000064) and shall be offered in accordance with the requirements of the following technical references:
 - 3.1 GR-1298-CORE, AIN Switching System Generic Requirements;
 - 3.2 GR-1299-CORE, AIN Switch-Service Control Point (SCP)/Adjunct Interface Generic Requirements;
 - 3.3 TR-NWT-001284, AIN 0.1 Switching System Generic Requirements;
 - 3.4 SR-NWT-002247, AIN Release 1 Update.

- 4. Interface to Loop Requirements:
 - 4.1 Basic Rate Interface ISDN adhering to ANSI standards Q.931, Q.932 and appropriate Bellcore Technical Requirements;
 - 4.2 Primary Rate ISDN to PBX adhering to ANSI standards Q.931, Q.932 and appropriate Bellcore Technical Requirements;
 - 4.3 Loops adhering to Bellcore TR-NWT-08 and TR-NWT-303 specifications to interconnect Digital Loop Carriers.

- 5. Interface to Loop for ISDN Requirements
 - 5.1 GTE shall provide the BRI U interface using 2 wire copper loops in accordance with TR-NWT-000393, January 1991, Generic Requirements for ISDN Basic Access Digital Subscriber Lines.
 - 5.2 GTE shall provide the BRI interface using Digital Subscriber Loops adhering to Bellcore TR-NWT-303 specifications to interconnect Digital Loop Carriers.

- 5.3 GTE shall offer PSD interfaces adhering to the X.25, S.75 and S.75' ANSI and Bellcore requirements.
6. At a minimum, Common Transport shall be provided to Focal in accordance with the following technical references (as applicable for the transport technology being used):
- 6.1 ANSI T1.101-1994, American National Standard for Telecommunications - Synchronization Interface Standard Performance and Availability;
- 6.2 ANSI T1.102-1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces;
- 6.3 ANSI T1.102.01-199x, American National Standard for Telecommunications - Digital Hierarchy - VT1.5;
- 6.4 ANSI T1.105-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats;
- 6.5 ANSI T1.105.01-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Automatic Protection Switching;
- 6.6 ANSI T1.105.02-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Payload Mappings;
- 6.7 ANSI T1.105.03-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Jitter at Network Interfaces;
- 6.8 ANSI T1.105.03a-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET): Jitter at Network Interfaces - DS1 Supplement;
- 6.9 ANSI T1.105.05-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Tandem Connection;
- 6.10 ANSI T1.105.06-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Physical Layer Specifications;

- 6.11 ANSI T1.105.07-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Sub STS-1 Interface Rates and Formats;
- 6.12 ANSI T1.105.09-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Network Element Timing and Synchronization;
- 6.13 ANSI T1.106-1988, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (Single Mode);
- 6.14 ANSI T1.107-1988, American National Standard for Telecommunications - Digital Hierarchy - Formats Specifications;
- 6.15 ANSI T1.107a-1990 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications (DS3 Format Applications);
- 6.16 ANSI T1.107b-1991 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications;
- 6.17 ANSI T1.117-1991, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (SONET) (Single Mode - Short Reach);
- 6.18 ITU Recommendation G.707, Network node interface for the synchronous digital hierarchy (SDH);
- 6.19 ITU Recommendation G.704, Synchronous frame structures used at 1544, 6312, 2048, 8488 and 44736 kbit/s hierarchical levels;
- 6.20 Bellcore FR-440 and TR-NWT-000499, Transport Systems Generic Requirements (TSGR): Common Requirements;
- 6.21 Bellcore GR-820-CORE, Generic Transmission Surveillance: DS1 & DS3 Performance;
- 6.22 Bellcore GR-253-CORE, Synchronous Optical Network Systems (SONET); Common Generic Criteria;
- 6.23 Bellcore TR-NWT 000507, Transmission, Section 7, Issue 5 (Bellcore, December 1993). (A module of LSSGR, FR-NWT-000064.);

- 6.24 Bellcore TR-INS-000342, High-Capacity Digital Special Access Service-Transmission Parameter Limits and Interface Combinations, Issue 1 February 1991;
- 6.25 Bellcore ST-TEC 000052, Telecommunications Transmission Engineering Textbook, Volume 2: Facilities, Third Edition, Issue I May 1989;
- 6.26 Bellcore ST-TEC-000051, Telecommunications Transmission Engineering Textbook Volume 1: Principles, Third Edition. Issue 1 August 1987;
7. At a minimum, Dedicated Transport shall be provided to Focal in accordance with the following technical references:
- 7.1 ANSI T1.105.04-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Data Communication Channel Protocols and Architectures;
- 7.2 ANSI T1.119-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications;
- 7.3 ANSI T1.119.01-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications Protection Switching Fragment;
- 7.4 ANSI T1.119.02-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications Performance Monitoring Fragment;
- 7.5 ANSI T1.231-1993 -American National Standard for Telecommunications - Digital Hierarchy - Layer 1 In-Service Digital Transmission performance monitoring.
- 7.6 AT&T Technical Reference TR 54016, Requirements For Interfacing Digital Terminal Equipment To Services Employing The Extended Superframe Format, September 1989;

- 7.7 AT&T Technical Reference TR 62421 ACCUNET Spectrum of Digital Services Description And Interface Specification, December 1989 and all addenda;
- 7.8 AT&T Technical Reference TR 62310, DS0 Digital Local Channel Description And Interface Specification, August 1993 and all addenda; and
- 7.9 AT&T Technical Reference TR 62415, Access Specification For High Capacity (DS1/DS3) Dedicated Digital Service, June 1989 and all addenda.
- 8. Digital Cross-Connect System (DCS) shall be provided to Focal in accordance with the following technical references:
 - 8.1 AT&T Technical Reference TR 62421 ACCUNET® Spectrum of Digital Services Description And Interface Specification, December 1989 and TR 62421A Addendum 2, November 1992;
 - 8.2 AT&T Data Communications Technical Reference TR 62310 DS0 Digital Local Channel Description and Interface Specification, August 1993, and all addendums;
 - 8.3 AT&T Technical Reference TR 62415 Access Specification For High Capacity (DS1/DS3) Dedicated Digital Service, June 1989, and all addendums including TR 62415A3 July, 1992;
 - 8.4 AT&T Technical Reference TR 62411 ACCUNET® T1.5 Service Description And Interface Specification, December 1990 and all addendums including Addendum 2, October 1992;
 - 8.5 AT&T Technical Reference TR 54014 ACCUNET® T45 and T45 Reserved Services - Service Description And Interface Specification;
 - 8.6 AT&T Technical Reference TR 54018 OC-3 Optical Interface Specifications, November 1991;
 - 8.7 AT&T Technical Reference TR 54016 Requirements For Interfacing Digital Terminal Equipment To Services Employing The Extended Superframe Format, September 1989;
 - 8.8 ANSI T1.102-1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces;

- 8.9 ANSI T1.102.01-199x, American National Standard for Telecommunications - Digital Hierarchy - VT1.5;
- 8.10 ANSI T1.105-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats;
- 8.11 ANSI T1.105.03-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Jitter at Network Interfaces;
- 8.12 ANSI T1.105.03a-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET): Jitter at Network Interfaces - DS1 Supplement;
- 8.13 ANSI T1.105.06-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Physical Layer Specifications;
- 8.14 ANSI T1.106-1988, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (Single Mode);
- 8.15 ANSI T1.107-1988, American National Standard for Telecommunications - Digital Hierarchy - Formats Specifications;
- 8.16 ANSI T1.107a-1990 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications (DS3 Format Applications);
- 8.17 ANSI T1.107b-1991 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications;
- 8.18 ANSI T1.117-1991, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (SONET) (Single Mode - Short Reach);
- 8.19 ANSI T1.403-1989, Carrier to Customer Installation, DS1 Metallic Interface Specification;
- 8.20 ANSI T1.404-1994, Network-to-Customer Installation - DS3 Metallic Interface Specification;
- 8.21 ITU Recommendation G.707, Network node interface for the synchronous digital hierarchy (SDH);

- 8.22 ITU Recommendation G.704, Synchronous frame structures used at 1544, 6312, 2048, 8488 and 44736 kbit/s hierarchical levels;
 - 8.23 FR-440 and TR-NWT-000499, Transport Systems Generic Requirements (TSGR): Common Requirements;
 - 8.24 GR-820-CORE, Generic Transmission Surveillance: DS1 & DS3 Performance;
 - 8.25 GR-253-CORE, Synchronous Optical Network Systems (SONET); Common Generic Criteria; and
 - 8.26 TR-NWT-000776, Network Interface Description for ISDN Customer Access.
9. Signaling Transfer Points (STPs) shall be provided to Focal in accordance with the following technical references:
- 9.1 ANSI T1.111-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP);
 - 9.2 ANSI T1.111A-1994 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP) Supplement;
 - 9.3 ANSI T1.112-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Signaling Connection Control Part (SCCP);
 - 9.4 ANSI T1.115-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Monitoring and Measurements for Networks;
 - 9.5 ANSI T1.116-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Operations, Maintenance and Administration Part (OMAP);
 - 9.6 ANSI T1.118-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Intermediate Signaling Network Identification (ISNI);
 - 9.7 Bellcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network

- Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP); and
- 9.8 Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).
10. SCPs/Databases shall be equal to or better than all of the requirements for SCPs/Databases set forth in the following technical references:
- 10.1 GR-246-CORE, Bell Communications Research Specification of Signaling System Number 7, ISSUE 1 (Bellcore, December 1995);
- 10.2 GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP). (Bellcore, March 1994);
- 10.3 GR-954-CORE, CCS Network Interface Specification (CCSNIS) Supporting Line Information Database (LIDB) Service 6, Issue 1, Rev. 1 (Bellcore, October 1995);
- 10.4 GR-1149-CORE, OSSGR Section 10: System Interfaces, Issue 1 (Bellcore, October 1995) (Replaces TR-NWT-001149);
- 10.5 GR-1158-CORE, OSSGR Section 22.3: Line Information Database 6, Issue (Bellcore, October 1995)
- 10.6 GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service (Bellcore, May 1995); and
- 10.7 BOC Notes on the RLEC Networks, SR-TSV-002275, ISSUE 2, (Bellcore, April 1994).
11. Signalling Transfer Points (STPs) shall offer SS7 AIN Access in accordance with the requirements of the following technical references:
- 11.1 GR-2863-CORE, CCS Network Interface Specification Supporting Advanced Intelligent Network (AIN);

- 11.2 GR-2902-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll-Free Service Using Advanced Intelligent Network (AIN).

- 12. Tandem Switching shall meet or exceed the following technical references:
 - 12.1 Bell Communications Research TR-TSY-000540 issue 2R2, Tandem Supplement, 6/1/90.
 - 12.2 GR-905-CORE covering CCSNIS;
 - 12.3 GR-1429-CORE for call management features; and GR-2863-CORE and GR-2902-CORE covering CCS AIN interconnection.

- 13. GTE performance under Section 13 of Attachment 2 shall meet or exceed the performance standards and requirements set forth in the technical references listed below;
 - 13.1 Bell Communications Research, Inc. Documents
 - 13.1.1 FR-64, LATA Switching Systems Generic Requirements (LSSGR). This document contains 117 Technical References and Generic Requirements. Sections provide the requirements for local switching systems (also referred to as end offices) that serve customers' lines. Some modules of the LSSGR are also referenced separately in this document.
 - 13.1.2 TR-NWT-000499, Issue 5, Rev 1, April 1992, Transport Systems Generic Requirements (TSGR): Common Requirements.
 - 13.1.3 TR-NWT-000418, Issue 2, December 1992, Generic Reliability Assurance Requirements For Fiber Optic Transport Systems.
 - 13.1.4 TR-NWT-000057, Issue 2, January 1993, Functional Criteria for Digital Loop Carriers Systems.
 - 13.1.5 TR-NWT-000507, Issue 5, December 1993, LSSGR - Transmission, Section 7.
 - 13.1.6 GR-303-CORE, Issue 1, September 1995, Integrated Digital Loop Carrier System Generic Requirements, Objectives, and Interface.

- 13.1.7 GR-334-CORE, Issue 1, June 1994, Switched Access Service: Transmission Parameter Limits and Interface Combinations.
- 13.1.8 TR-NWT-000335, Issue 3, May 1993, Voice Grade Special Access Services - Transmission Parameter Limits and Interface Combinations.
- 13.1.9 TR-TSY-000529, Issue 2, July 1987, Public Safety - LSSGR.
- 13.1.10 GR-1158-CORE, Issue 2, October 1995, OSSGR Section 22.3: Line Information Database.
- 13.1.11 TR-TSY-000511, Issue 2, July 1987, Service Standards, a Module (Section 11) of LATA Switching Systems Generic Requirements (LSSGR, FR-NWT-000064).
- 13.1.12 TR-NWT-000393, January 1991, Generic Requirements for ISDN Basic Access Digital Subscriber Lines.
- 13.1.13 TR-NWT-000909, December 1991, Generic Requirements and Objectives for Fiber In The Loop Systems.
- 13.1.14 TR-NWT-000505, Issue 3, May 1991, LSSGR Section 5, Call Processing.
- 13.1.15 FR-NWT-000271, 1993, Operator Services Systems Generic Requirements (OSSGR).
- 13.1.16 TR-NWT-001156, Issue 2, July 1993, OSSGR Operator Services Systems Generic Requirements, Section 21, Operator Subsystem.
- 13.1.17 SR-TSY-001171, Issue 1, January 1989, Methods and Procedures for System Reliability Analysis.
- 13.1.18 Bellcore Telecommunications Transmission Engineering, 3rd Ed, 1990.
- 13.2 ANSI Standards
 - 13.2.1 ANSI T1.512-1994, Network Performance - Point-to-Point Voice-Grade Special Access Network Voiceband Data Transmission Objectives.
 - 13.2.2 ANSI T1.506-1990, Network Performance - Transmission Specifications for Switched Exchange Access Network.

- 13.2.3 ANSI T1.508-1992, Telecommunications - Network Performance - Loss Plan for Evolving Digital Networks. Also supplement T1.508a-1993.
- 13.2.4 ANSI T1.101-1994, Digital Synchronization Network Plan.
- 13.3 TIA/EIA Standards
 - 13.3.1 Requirements not specifically addressed here shall be found in the documents listed in Electronic Industries Association/Telecommunications Industries Association Standards and Engineering Publications.
 - 13.3.2 TIA/EIA TSB-37A, Telephone Network Transmission Model for Evaluating Modem Performance.
 - 13.3.3 TIA/EIA TSB-38, Test Procedure for Evaluation of 2-wire 4 kHz Voiceband Duplex Modems.
- 13.4 IEEE Standards
 - 13.4.1 IEEE Standard 743-1984, IEEE Standard Methods and Equipment for Measuring Transmission Characteristics of Analog Voice Frequency Circuits.
 - 13.4.2 ANSI/IEEE Standard 820-1984, Telephone Loop Performance Characteristics.
- 13.5 AT&T Standards
 - 13.5.1 Outside Plant Engineering Handbook, August 1994.
 - 13.5.2 AT&T Pub. 60220, Issue 1, April 1991, 5ESS OSPS Interface Technical Specification for Domestic Toll And Assistance Applications.
 - 13.5.3 AT&T Technical Reference TR 43202, May 1985, AT&T Analog Voice Total and Coordinated Services.
 - 13.5.4 AT&T Technical Reference TR 41458, April 1990, Special Access Connection to the Focal Network.
 - 13.5.5 AT&T Technical Reference TR 62415, June 1989, Access Specification For High Capacity (DS1/DS3) Dedicated Digital Service. Also TR 62415A2 November 1990, and TR 62415A3 July 1992 which are addenda to TR 62415.

- 13.5.6 AT&T Technical Reference TR 54016, September 1989, Requirements For Interfacing Digital Terminal Equipment To Services Employing The Extended Superframe Format.
- 13.5.7 AT&T Technical Reference TR 62411, December 1990, ACCUNET T1.5 Service Description And Interface Specification. Also Addendum 1 March 1991 and Addendum 2 October 1992.
- 13.5.8 AT&T Technical Reference TR 62421, December 1989, ACCUNET Spectrum of Digital Services Description And Interface Specification. Also TR 62421A Addendum 2 November 1992.
- 13.5.9 AT&T Data Communications Technical Reference TR 62310, August 1993, DS0 Digital Local Channel Description And Interface Specification. Also Addendum 2 November 1992.
- 13.5.10 AT&T Technical Reference TR 54014, 1992, ACCUNET T45 and T45 Reserved Services - Service Description And Interface Specification.
- 13.5.11 AT&T Technical Reference TR 54018, most current issue, ACCUNET T155 Service Description And Interface Specification.
- 14. The protocol interface requirements for SS7 Network Interconnection include the MTP, ISDNUP, SCCP, and TCAP. These protocol interfaces shall conform to the following specifications:
 - 14.1 Bellcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP);
 - 14.2 Bellcore GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service;
 - 14.3 Bellcore GR-1429-CORE, CCS Network Interface Specification (CCSNIS) Supporting Call Management Services; and
 - 14.4 Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).
 - 14.5 GTE shall set message screening parameters to block accept messages from Focal local or tandem switching systems destined

to any signaling point in the GTE SS7 network with which the Focal switching system has a legitimate signaling relation.

15. SS7 Network Interconnection shall be provided to Focal in accordance with the following technical references:
 - 15.1 ANSI T1.110-1992 American National Standard Telecommunications - Signaling System Number 7 (SS7) - General Information;
 - 15.2 ANSI T1.111-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP);
 - 15.3 ANSI T1.111A-1994 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP) Supplement;
 - 15.4 ANSI T1.112-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Signaling Connection Control Part (SCCP);
 - 15.5 ANSI T1.113-1995 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Integrated Services Digital Network (ISDN) User Part;
 - 15.6 ANSI T1.114-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Transaction Capabilities Application Part (TCAP);
 - 15.7 ANSI T1.115-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Monitoring and Measurements for Networks;
 - 15.8 ANSI T1.116-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Operations, Maintenance and Administration Part (OMAP);
 - 15.9 ANSI T1.118-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Intermediate Signaling Network Identification (ISNI);
 - 15.10 Bellcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network

Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP);

- 15.11 Bellcore GR-954-CORE, CCS Network Interface Specification (CCSNIS) Supporting Line Information Database (LIDB) Service;
- 15.12 Bellcore GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service;
- 15.13 Bellcore GR-1429-CORE, CCS Network Interface Specification (CCSNIS) Supporting Call Management Services; and,
- 15.14 Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).

ATTACHMENT 3

SERVICE DESCRIPTION: ANCILLARY FUNCTIONS

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
SERVICE DESCRIPTION: ANCILLARY FUNCTIONS.....	1
1. Introduction.....	1
2. Collocation	1
3. Poles, Ducts, Conduits, Rights of Way (ROW).....	9

SERVICE DESCRIPTION: ANCILLARY FUNCTIONS

1. Introduction

This Attachment sets forth the descriptions and requirements for Ancillary Functions that GTE agrees to offer to Focal under this Agreement.

2. Collocation

2.1 Definition: Collocation is the right of Focal to obtain dedicated space in GTE's Local Serving Office (LSO) or other GTE locations and to place equipment in such spaces to interconnect with the GTE network or obtain access to unbundled network elements. Collocation also includes GTE providing resources necessary for the operation and economical use of collocated equipment.

2.1.1 Terms: - GTE will provide collocation to Focal under the terms of its applicable collocation tariff. In addition, GTE agrees that the terms and conditions set forth in this Section 2 shall apply to physical collocation provided to Focal.

2.2 Technical Requirements

2.2.1 Upon request by Focal, GTE shall provide space as required by the FCC tariff on Expanded Interconnection Service.

2.2.1.1 GTE will not restrict Focal's access to existing space for collocation on the basis of GTE plans for future use of that space, except on terms and conditions for reserving future space that are made available to all collocating carriers who wish to hold space for future use and that do not favor GTE over such other carriers. If GTE refuses to release to Focal space which GTE has reserved for itself, GTE shall demonstrate with appropriate documentation and other supporting evidence that it has specific plans for the use of the space. Focal will pay for any space reserved for future use in accordance with such non-discriminatory terms for reserving collocation space and in accordance with the pricing terms of Attachment 14 and future order of the Commission.

2.2.1.2 GTE is not required to construct additional space when none is available to meet a physical collocation request. However, in determining whether space is available to meet a request for physical collocation, GTE will offer contiguous space to Focal where available. GTE will also take Focal and other collocator demand into account

when renovating existing facilities and constructing or leasing new facilities.

- 2.2.2 GTE shall provide intraoffice facilities (e.g., DS0, DS1, DS3, OC3, OC12, OC48, and STS-1 terminations) as requested by Focal to meet Focal's need for placement of equipment, interconnection, or provision of service.
- 2.2.3 Other than reasonable security restrictions, where Focal's physical collocated space is located in space that is partitioned separately from GTE facilities, GTE shall place no restriction on access to the Focal collocated space by Focal's employees and designated agents. Such space shall be available to Focal designated agents twenty-four (24) hours per day each day of the week. Where Focal's collocated space is located in space that is not partitioned separately from GTE's facilities, GTE shall provide Focal designated personnel escort service to and from Focal's collocated space, at Focal's expense. Such escort service shall be available twenty-four (24) hours per day each day of the week. In no case should any reasonable security restrictions be more restrictive than those GTE places on their own personnel.
- 2.2.4 GTE will not place any restrictions on Focal's use of its collocated space, other than limitations specified in this Agreement or limitations based on space availability and reasonable security requirements, applied in a nondiscriminatory manner. Focal may collocate the amount and type of equipment in its collocated space that is necessary for interconnection functions (which include interconnection with GTE's network and other collocated carriers or access to GTE's unbundled network elements), including but not limited to transmission equipment, multiplexing equipment, and remote switching units ("RSUs"); provided, however, that Focal may not collocate enhanced services equipment or fully equipped switching equipment (host class 5 switches), nor may it use physically collocated RSUs to avoid payment of access charges.
- 2.2.5 GTE shall allow the interconnection of Focal to other carriers who have collocated space within GTE's facility (e.g., GTE shall not require Focal to interconnect with other carriers outside of GTE's facilities). This connection will be provisioned using EISCC (expanded interconnection service cross connect jumper) and will be priced as set forth in Attachment 14.
- 2.2.6 Focal may select its own vendors for all required engineering and installation services associated with its physically collocated equipment

subject to GTE's reasonable restrictions on third party vendors that GTE has decertified with good cause. GTE shall maintain and provide Focal with a list of all such decertified vendors. Notwithstanding GTE decertification of a third party vendor, Focal may use such vendor for work associated with its collocated equipment if such vendor is the only third party vendor reasonably available to Focal to perform such work. In no event shall GTE require Focal to utilize GTE's internal engineering or installation work forces for the engineering and installation of Focal's physically collocated equipment.

- 2.2.7 GTE shall provide basic telephone service with a connection jack as requested by Focal from GTE for the collocated space. Upon Focal's request, this service shall be available at the Focal collocated space on the day that the space is turned over to Focal by GTE.
- 2.2.8 GTE shall provide adequate lighting, ventilation, power, heat, air conditioning, and other environmental conditions for Focal's space and equipment. These environmental conditions shall adhere to Bell Communication Research (Bellcore) Network Equipment-Building System (NEBS) standards TR-EOP-000063.
- 2.2.9 [This section intentionally deleted.]
- 2.2.10 GTE shall provide all ingress and egress of fiber and power cabling to Focal collocated spaces in compliance with Focal's cable diversity standards. The specific level of diversity required for each site or Network Element will be provided in the collocation request. Focal will pay for the provision of such diversity if Focal's requirements exceed those provided by GTE for itself in such site or to such Network Element. In such event, the price will be established on an individual case basis in accordance with the applicable GTE intrastate access tariff. Focal will also pay for the provision of such diversity in circumstances where Focal's requirements do not exceed those provided by GTE for itself in such site or to such Network Element, but where capacity does not exist in the fiber or power cabling to accommodate the provision of diversity requested by Focal. In such circumstances, the price will be established on an individual case basis in accordance with the applicable GTE intrastate access tariff.
- 2.2.11 This Section 2.2.11 left intentionally blank.
- 2.2.12 GTE shall adhere to the DMOQs, set forth in Attachment 12.

- 2.2.13 GTE will provide answers to Focal's Environmental, Health & Safety Questionnaire at the first contact meeting for each collocated space in each building in which collocated space is provided.
- 2.2.14 GTE shall provide Focal with written notice at least two (2) business days prior to those instances in which GTE or its subcontractors may be performing non-emergency work in the general area of the collocated space occupied by Focal, or in the general area of the AC and DC power plants which support Focal equipment that is, or potentially may be, service affecting. GTE will inform Focal by telephone of any emergency related activity that GTE or its subcontractors may be performing in the general area of the collocated space occupied by Focal, or in the general area of the AC and DC power plants which support Focal equipment. GTE will use diligent efforts to notify Focal of any emergency related activity prior to the start of the activity so that Focal can take any action required to monitor or protect its service.
- 2.2.15 GTE shall construct the collocated space in compliance with Focal's collocation request for cable holes, ground bars, doors, and convenience outlets as long as such request is in compliance with Applicable Laws and GTE's grounding requirements. To the extent that such request involves additional work beyond that required to construct the standard GTE collocation space, the price for such construction will be on an individual case basis or as established in accordance with Attachment 14.
- 2.2.16 Focal and GTE will complete an acceptance walk through of all collocated space requested from GTE. Exceptions that are noted during this acceptance walk through shall be corrected by GTE within five (5) business days after the walk through. The correction of these exceptions from the original collocation request shall be at GTE's expense.
- 2.2.17 GTE shall provide Telephone Equipment detailed drawings depicting the exact location, type, and cable termination requirements (i.e., connector type, number and type of pairs, and naming convention) for GTE Point of Termination Bay(s) to Focal at the first mutually scheduled GTE/Focal collocation meeting with respect to the specific request which meeting shall occur within thirty five (35) days of Focal's request for collocated space, except in unusual cases.

- 2.2.18 GTE shall provide Telephone Equipment detailed drawings depicting the exact path, with dimensions, for Focal Outside Plant Fiber ingress and egress into Focal collocated space at the first mutually scheduled collocation meeting which meeting shall occur within thirty five (35) days of Focal's request for collocated space, except in unusual cases. Such path and any areas around it in which Focal must work to perform installation shall be free of friable asbestos, lead paint (unless encapsulated), radon and other health or safety hazards.
- 2.2.19 GTE shall provide detailed power cabling connectivity information including the sizes and number of power feeders to Focal no later than five (5) days in advance of the first mutually scheduled collocation meeting.
- 2.2.20 GTE shall provide positive confirmation to Focal when construction of Focal collocated space is approximately 50% completed. This confirmation shall also include confirmation of the scheduled completion and turnover dates.
- 2.2.21 GTE will make every reasonable effort to meet the negotiated completion and turnover dates, which dates shall be no greater than 120 days from the original collocation request, except in unusual cases or in instances where GTE is precluded from meeting such dates because of delay caused by the need to obtain building permits, despite the use of every reasonable effort by GTE to obtain such permits in time to meet the negotiated dates.
- 2.2.22 GTE shall provide the following information to Focal no later than five (5) business days in advance of the first mutually scheduled collocation meeting:
- 2.2.22.1 Work restriction guidelines.
- 2.2.22.2 GTE or Industry technical publication guidelines that impact the design of Focal collocated equipment.
- 2.2.22.3 GTE contacts (names and telephone numbers) for the following areas:
- Engineering
 - Physical & Logical Security
 - Provisioning
 - Billing
 - Operations
 - Site and Building Managers
 - Environmental and Safety

- 2.2.22.4 Escalation process for GTE representatives (names, telephone numbers and the escalation order) for any disputes or problems that might arise pursuant to Focal's collocation.
- 2.2.23 Power as referenced in this Attachment 3 refers to any electrical power source supplied by GTE for Focal equipment. It includes all superstructure, infrastructure, and overhead facilities, including, but not limited to, cable, cable racks and bus bars. GTE will supply power to support Focal equipment at equipment specific DC and AC voltages. At a minimum, GTE shall supply power to Focal at parity with that provided by GTE to itself or to any third party. If GTE performance, availability, or restoration falls below industry standards, GTE shall bring itself into compliance with such industry standards as soon as technologically feasible.
 - 2.2.23.1 Central office power supplied by GTE into the Focal equipment area, shall be supplied in the form of power feeders (cables) on cable racking into the designated Focal equipment area. The power feeders (cables) shall efficiently and economically support the requested quantity and capacity of Focal equipment. The termination location shall be mutually agreed upon by the Parties.
 - 2.2.23.2 GTE shall provide power as requested by Focal to meet Focal's need for placement of equipment, interconnection, or provision of service.
 - 2.2.23.3 GTE power equipment supporting Focal's equipment shall:
 - 2.2.23.3.1 Comply with applicable industry standards (e.g., Bellcore, NEBS and IEEE) or manufacturer's equipment power requirement specifications for equipment installation, cabling practices, and physical equipment layout;
 - 2.2.23.3.2 Have redundant DC power through battery back-up as required by the equipment manufacturer's specifications for Focal equipment, or, at minimum, at parity with that provided for similar GTE equipment;
 - 2.2.23.3.3 GTE shall immediately notify Focal if an alarm condition exists with respect to such monitoring or if backup power has been engaged for any power supporting Focal's equipment;
 - 2.2.23.4 Provide central office ground, in accordance with GTE's grounding requirements; and

- 2.2.23.5 Provide power feeder capacity and quantity to support the equipment layout for Focal equipment in accordance with Focal's collocation request.
- 2.2.23.6 GTE shall:
 - 2.2.23.6.1 Provide installation sequences and access that will allow installation efforts in parallel without jeopardizing personnel safety or existing Focal services;
 - 2.2.23.6.2 Provide power plant alarms that adhere to Bell Communication Research (Bellcore) Network Equipment-Building System (NEBS) standards TR-EOP-000063;
 - 2.2.23.6.3 Provide cabling that adheres to Bell Communication Research (Bellcore) Network Equipment-Building System (NEBS) standards TR-EOP-000063;
 - 2.2.23.6.4 Provide Lock-Out Tag Out and other electrical safety procedures and devices in accordance with OSHA or industry guidelines.
- 2.2.23.7 GTE will provide Focal with written notification within ten (10) business days of any scheduled non-emergency AC or DC power work or related activity in the collocated facility that will or might cause an outage or any type of power disruption to Focal equipment located in the GTE facility. GTE will use diligent efforts to notify Focal by telephone of any emergency power activity that would impact Focal equipment.
- 2.2.23.8 With respect to any work to provide or prepare collocation space (including, without limitation, power supplies and cage construction) proposed to be performed by GTE or its subcontractors or vendors on behalf of Focal:
 - 2.2.23.8.1 GTE shall, within thirty (30) days after a request by Focal, provide Focal with a written price for any such work. The price will be accompanied by the following written information: (a) any terms under which the work is proposed to be performed, (b) a reasonably detailed breakdown or explanation of costs underlying the price, and (c) a reasonably detailed description of the technical specifications of the work to be performed. Focal must approve the price, terms, cost breakdown and technical specifications prior to any work being performed.

- 2.2.23.8.2 Following completion of the work, Focal and GTE will complete an acceptance walk through of the collocated space in accordance with Section 2.2.16.
- 2.2.24 GTE shall be required to take Focal demand for collocation space into account when expanding, adding to or altering existing facilities and constructing or leasing new facilities.
- 2.3 Technical References - GTE shall provide collocation in accordance with the following standards:
 - 2.3.1 Institute of Electrical and Electronics Engineers (IEEE) Standard 383, IEEE Standard for Type Test of Class 1 E Electric Cables, Field Splices, and Connections for Nuclear Power Generating Stations.
 - 2.3.2 National Electrical Code (NEC) use latest issue.
 - 2.3.3 TA-NPL-000286, NEBS Generic Engineering Requirements for System Assembly and Cable Distribution, Issue 2, (Bellcore, January 1989).
 - 2.3.4 TR-EOP-000063 Network Equipment-Building System (NEBS) Generic Equipment Requirements, Issue 3, March 1988.
 - 2.3.5 TR-EOP-000151, Generic Requirements for 24-, 48-, 130-, and 140-Volt Central Office Power Plant Rectifiers, Issue 1, (Bellcore, May 1985).
 - 2.3.6 TR-EOP-000232, Generic Requirements for Lead-Acid Storage Batteries, Issue 1 (Bellcore, June 1985).
 - 2.3.7 TR-NWT-000154, Generic Requirements for 24-, 48-, 130, and 140-Volt Central Office Power Plant Control and Distribution Equipment, Issue 2, (Bellcore, January 1992).
 - 2.3.8 TR-NWT-000295, Isolated Ground Planes: Definition and Application to Telephone Central Offices, Issue 2, (Bellcore, July 1992).
 - 2.3.9 TR-NWT-000840, Supplier Support Generic Requirements (SSGR), (A Module of LSSGR, FR-NWT-000064), Issue 1, (Bellcore, December 1991).
 - 2.3.10 TR-NWT-001275 Central Office Environment Installations/Removal Generic Requirements, Issue 1, January 1993.
 - 2.3.11 Underwriters' Laboratories Standard, UL 94.

3. **Poles, Ducts, Conduits, Rights of Way (ROW)**

3.1 **Definitions**

- 3.1.1 An "Attachment" is any placement of Focal's Facilities in or on GTE's poles, ducts, conduits, or rights of way.
- 3.1.2 A "conduit" is a tube or protected trough that may be used to house communication or electrical cables. Conduit may be underground or above ground and may contain one or more inner ducts.
- 3.1.3 A "duct" is a single enclosed path to house facilities to provide telecommunications services.
- 3.1.4 For the purpose of this Section 3, the terms "Facility" and "Facilities" include anchors, pole hardware, wires, cables, strands, apparatus enclosures, equipment boxes, optical conductors and associated hardware and other telecommunications equipment located on or in a Structure.
- 3.1.4.1 For purposes of this Section 3, the terms "Structure" and "Structures" refer to poles, ducts, conduits and ROW, to the extent owned or controlled by GTE.
- 3.1.5 An "inner duct" is one of the single enclosed pathways located within a duct, or buried separately without the benefit of conduit.
- 3.1.6 The term "make ready work" refers to all work performed or to be performed to prepare GTE's conduit systems, poles or anchors and related facilities for the requested occupancy or attachment of Focal's Facilities. "Make ready work" includes, but is not limited to, clearing obstructions, the rearrangement, transfer, replacement, and removal of existing Facilities on a pole or in a conduit system where such work is required solely to accommodate Focal's Facilities and not to meet GTE's business needs or convenience. "Make ready work" may include the repair, enlargement, or modification of GTE's Structures (including, but not limited to, conduits, ducts, or manholes) or the performance of other work required to make a pole, anchor, conduit or duct usable for the initial placement of Focal's Facilities.
- 3.1.7 A "manhole" is a subsurface enclosure that personnel may enter and use for the purpose of installing, operating, maintaining and repairing communications Facilities.

- 3.1.8 A "pole attachment" is the connection of a Facility to a utility pole.
- 3.1.9 A "Right of Way" ("ROW") is the right to use the land or other property of another party to place poles, conduits, cables, other structures and equipment, or to provide passage to access such structures and equipment. A ROW may run under, on, or above public or private property (including air space above public or private property) and may include the right to use discrete space in buildings, building complexes, or other locations. The existence of a ROW shall be determined in accordance with Applicable Law.
- 3.2 General Duties**
- 3.2.1 GTE shall make poles, ducts, conduits, and ROW available to Focal for Attachments under the terms and conditions set forth in this Section 3.
- 3.2.2 GTE shall provide Focal equal and non-discriminatory access to pole space, ducts, inner ducts, conduit, and ROW, as provided below, it owns or controls. Such access shall be provided to Focal on terms and conditions as favorable as is provided by GTE to itself or to any other party. Further, GTE shall not preclude or delay allocation of these Structures to Focal because of the potential needs of itself or of other parties, except as provided below. This general duty is subject to any agreements or easements that would prohibit GTE from providing such access on specific pole space, ducts, conduit, or ROW to Focal. If GTE determines that access to specific pole space, ducts, conduit, or ROW is precluded by an agreement or easement, Focal shall have the right to review the pertinent provisions of the agreement or easement.
- 3.2.3 GTE will not enter into any agreements with owners that restrict the ability of the owner to reach agreements with Focal regarding access to ROW and ancillary pathways to the customer, such as entrance facilities, cable vaults, telephone closets, equipment rooms, risers, and other similar passageways.
- 3.2.4 GTE shall provide to Focal a Regional Single Point of Contact to resolve issues that arise in the implementation of this Agreement.
- 3.2.5 Excepting maintenance and emergency ducts as provided below, all useable but unused space on poles, conduits, ducts or ROW owned or controlled by GTE shall be available for the attachments of Focal, GTE or other providers of Telecommunications Services or cable television systems; provided, however, GTE may exclude or condition access for

reasons of safety, reliability and generally applicable engineering standards, provided that such exclusions and conditions are consistent with those that GTE applies to its own use of poles, ducts, conduits and ROW. Neither Focal, GTE nor any other person may reserve space on GTE owned or controlled poles, conduits, ducts or ROW for its future needs, unless GTE permits Focal, GTE or any other person to reserve space on GTE-owned or controlled poles, conduits, ducts or ROW for specific planned projects over the same time period. To the extent that GTE decides to permit such reservations it shall do so in a nondiscriminatory and competitively neutral manner and shall not favor itself or any of its affiliates and it shall notify Focal in writing 30 days in advance of implementing such decision of the reservation process it intends to follow. Such reservations may only be for specific projects for which a party, including GTE or any of its affiliates, can demonstrate a specific commitment by producing detailed engineering plans. GTE may reserve for emergency and maintenance purposes one duct in each conduit section of its facility routes. Such duct shall be equally accessible and available by any party with Facilities in such conduit section to use to maintain its Facilities or to restore them in an emergency.

3.3 Pre-Ordering Disclosure Requirements

3.3.1 Focal may request information regarding the availability and conditions of poles, ducts, conduits, and ROW prior to the submission of Attachment Requests. GTE shall provide information regarding the availability and condition of GTE's poles, ducts, conduits, or ROW for Attachments within thirty (30) business days. If it is unable to inform Focal about availability and conditions within the thirty-day interval, GTE shall advise Focal within ten (10) days after receipt of Focal's information request and will seek a mutually satisfactory time period for GTE's response. If GTE's response requires a field-based survey, Focal shall have the option to be present at the field-based survey and GTE shall provide Focal at least twenty-four (24) hours notice prior to the start of such field survey. During and after this period, GTE shall allow Focal personnel to enter manholes and view pole structures to inspect such structures in order to confirm usability or assess the condition of the structure.

3.3.2 GTE shall make available to Focal for inspection marked street maps and as-built drawings showing existing poles, conduit or other ROW at GTE's area engineering offices, upon reasonable advance notification. If the Parties can ascertain the availability of a specific point-to-point route at the time of viewing, GTE will make the maps and pole prints

available for copying. In making these maps and prints available, GTE makes no express or implied warranty as to the accuracy of these maps and prints, other than to represent that they are the maps and prints GTE uses in its day-to-day operations. GTE reserves the right to deny subsequent requests to see previously viewed maps and prints if Focal does not have a good faith intention to submit an Attachment Request relating to the areas described.

3.3.3 Focal shall pay GTE a reasonable administrative fee to cover the direct cost of providing conduit maps and prints.

3.4 **Attachment Requests**

3.4.1 GTE agrees to permit Focal to place Focal's Facilities on or in GTE's poles, ducts, conduits, and ROW pursuant to Attachment Requests from Focal approved in accordance with this Section 3.4 on the terms and conditions set forth herein. GTE may not restrict Focal's ability to construct, maintain and monitor its facilities at these sites to any greater extent than GTE restricts its own ability to construct, maintain and monitor the same facilities.

3.4.2 For access to GTE owned or controlled poles, Focal will follow this process: (a) Focal forwards a completed pole attachment inquiry/request form to GTE; (b) GTE reviews inquiry/request form and verifies the availability of space and communicates availability information back to Focal within 30 business days; (c) Focal decides whether it wants space; (d) If Focal wants space, it will provide three (3) copies of maps, pole lease application and permit, permit compliance letter, rearrangement worksheet ("make ready" sheet); (e) Focal will provide a check to cover the costs of GTE inspection and the first year's rent pro-rated to the next (annual) billing period. At this point, Focal is guaranteed space and GTE opens a work order; (f) GTE uses make ready sheets to inspect the poles for proper build and identification of possible infractions. This process could take up to 45 days depending upon the size of the job; (g) GTE provides to Focal a corrected copy of the make ready sheets and gives Focal permission to start its build; (h) Focal has 60 to 90 days to begin construction, but can start construction immediately upon receiving permission; (i) After construction is complete Focal will notify GTE. GTE will complete a final inspection and identify infractions on a "gig" sheet provided back to Focal. Focal has 30 days to fix infractions; and (j) Focal will notify GTE when work is complete and GTE will do one last inspection and close work order.

3.4.3 For access to GTE owned or controlled ducts or conduit, Focal will follow this process: (a) Focal forwards a completed conduit/duct occupancy inquiry/request form to GTE; (b) GTE reviews inquiry/request form for availability, but not integrity of conduit/duct and communicates availability information back to Focal within 30 business days; (c) Focal decides whether it wants conduit/duct, and if so requests to know the integrity of the conduit/duct. Prior to integrity verification, GTE will require either an engineering deposit or an escrow account for the inspector's or single source provider's (SSP) time; (d) Upon receipt of the deposit or escrow funds, Focal can request GTE (SSP) to pull a slug through the duct to validate integrity. If and when requested, GTE will do so and will also attach a mule tape to the back end of the slug to get an accurate read (footage) from point A to point B of the conduit/duct. Alternatively, Focal can have its approved vendor pull a slug with GTE's inspector watching; (e) Once the integrity of the conduit/duct is validated, Focal will provide a check for the first year's rental associated with the amount of the actual footage to be leased pro-rated to the next (annual) billing period and an engineering design within 30 business days, which will provide procedures for access to the conduit/duct including, but not limited to a gas test procedure, a procedure for dealing with water in manholes which are used to access the conduit/duct, and how Focal will guard the other Facilities in the manhole during its work. At this point conduit/duct is guaranteed to Focal; (f) Focal will access the conduit/duct through a manhole, a cable equipment vault or another mutually agreed means; (g) Focal will be given 60 to 90 days to start construction, but can start construction immediately, at the point conduit/duct is guaranteed to Focal; (h) After construction is complete, Focal will notify GTE; and (i) GTE will complete a visual inspection of the job as well as any inspections during construction that GTE deems are necessary.

3.4.4 GTE's single point of contact will provide or will arrange to provide to Focal any information known or available to GTE regarding environmental, health and safety matters for each GTE Structure in or on which Focal seeks an Attachment no later than the time that GTE approves an Focal Attachment Request. Information is considered available if it is in GTE's possession. GTE represents that the information provided by GTE will be the best information available to GTE at the time the information is provided. GTE does not represent that any information provided reflects the actual condition of the Structure at the time the information is provided, or at the time Focal enters or seeks an Attachment at the Structure, nor that no change has occurred in such conditions between the time such information is provided and the time Focal enters or seeks an Attachment at the

Structure, and Focal acknowledges that no such representations are made, however, GTE shall inform Focal of any changes in the information provided to Focal as soon as practicable after the change is known or available to GTE.

3.5 **Authority to Place Attachments**

3.5.1 Before Focal places any Attachment pursuant to an approved Attachment Request, Focal shall submit evidence of its authority to erect and maintain the Facilities to be placed on GTE's Structures within the public streets, highways and other thoroughfares or on private property, where such authority is required by law. Focal shall be solely responsible for obtaining all licenses, authorizations, permits, and consent from federal, state and municipal authorities or private property owners that may be required to place Attachments on GTE's Structures.

3.5.2 GTE shall not unreasonably intervene against or attempt to delay the granting of any licenses, authorizations, permits or consents from federal, state and municipal authorities or private property owners that may be required for Focal to place its Attachments on or in any poles, ducts, conduits, or rights of way, including those that GTE owns or controls.

3.5.3 If any license, authorization, permit or consent obtained by Focal from an authority, which for the purposes of this Section 3.5.3 does not include GTE, is subsequently revoked or denied for any reason, permission to attach to GTE's Structures shall terminate immediately and Focal shall remove its Attachments within the time required by such authorities, or absent such time, within ninety (90) days after Focal receives notification of revocation or denial. Focal may, at its option, litigate or appeal any such revocation or denial and if Focal is diligently pursuing such litigation or appeal, Focal may continue to maintain its Attachment. In doing so, Focal agrees to indemnify GTE from and against any and all costs resulting from GTE's continuation of the Attachment which is the subject of such litigation or appeal. If Focal does not appeal and Focal fails to remove Focal's Attachments within the above specified time period, GTE shall have the option to remove Focal's Attachments and store them in a public warehouse at the expense of and for the account of Focal without GTE being deemed guilty of trespass or conversion, and without GTE becoming liable for any loss or damage to Focal's Attachments occasioned thereby. Alternatively, GTE may remove Focal's Attachments and store them upon GTE's premises, in which event, GTE shall use the same

standard of care to protect Focal's Attachments that GTE uses for protecting GTE's own facilities and equipment. All reasonable costs incurred by GTE to remove Focal's Attachments shall be reimbursed to GTE by Focal upon demand.

3.6 **Capacity**

3.6.1 When there is insufficient space on a GTE pole or in a GTE conduit to accommodate an Focal requested Attachment or occupancy, GTE shall take all reasonable steps to accommodate Focal's requests for Attachments or occupancy where such access would require expansion of capacity. The costs of modifications required for expansion will be paid as provided in the FCC First Report and Order Paras. 1211-1216 and 47 C.F.R. Sec. 1.1416 pursuant to the terms in Appendix 8 of Attachment 14. If an entity, including GTE (the "attaching entity"), makes an Attachment to the pole or occupies the conduit after the completion of the modification, the attaching entity shall reimburse Focal in an amount equal to the modification costs attributable to the proportionate use of the attachment or occupancy by the attaching entity.

3.6.2 With GTE's consent, which consent shall not be unreasonably withheld, Focal may break out of GTE conduit where there is no reasonable engineering alternative. Where required by GTE, GTE shall provide Focal designated personnel with an escort service at Focal's expense. Such escort service shall be available twenty-four (24) hours per day, each day of the week. Prior to the start of work, Focal and the GTE escort will discuss the manner in which the work will be performed and GTE's reasonable requirements for ensuring the integrity of the conduit, protecting the Facilities contained in the conduit, protecting personnel and public safety and for preventing service interruptions. GTE Outside Plant Personnel will determine whether escort services are required on a case by case basis. This determination will be based on Focal's adherence to GTE's requirements for plant protection procedures and the industry-standard construction and access procedures used by Focal. Nonetheless, GTE may require escort service in its sound discretion.

3.6.3 GTE shall permit manhole interconnections and breaking out of GTE manholes. Where required by GTE, GTE shall provide Focal designated personnel with an escort service, at Focal's expense. Such escort service shall be available twenty-four (24) hours per day each day of the week. Prior to the start of work, Focal and the GTE escort

will discuss the manner in which the work will be performed and GTE's reasonable requirements for ensuring the integrity of the manhole structure, protecting the Facilities contained in the manhole structure, protecting personnel and public safety and for preventing service interruptions. GTE Outside Plant Personnel will determine whether escort services are required on a case by case basis. This determination will be based on Focal's adherence to GTE's requirements for plant protection procedures and the industry-standard construction and access procedures used by Focal. Nonetheless, GTE may require escort service in its sound discretion. GTE reserves the right to deny Focal requests to break out of manholes where the break out does not occur at precast knockout locations or where the location in which Focal wants to break out is blocked by cable rack.

- 3.6.4 GTE shall take all reasonable measures to allow access and/or egress to all conduit systems. This shall include but not be limited to GTE's removal, upon Focal's request and at Focal's expense by paying GTE the actual costs incurred, of any retired cable from conduit systems to allow for the efficient use of conduit space within a reasonable period of time. If the Parties are unable to agree on what is reasonable (in terms of measures or time intervals), the matter may be submitted according to the Alternate Dispute Resolution Process, described in Attachment 1, by either Party. The costs of removal will be paid as provided in the FCC First Report and Order Paras. 1211-1216 pursuant to the terms in Appendix 8 of Attachment 14. If GTE knowingly permits an entity, including GTE (the "attaching entity"), to occupy the conduit after the completion of the removal, GTE shall notify Focal and, as a precondition to permitting such occupation, require that the attaching entity show that it has reimbursed Focal in an amount equal to the modification costs attributable to the proportionate occupancy by the attaching entity, prior to permitting such occupation.
- 3.6.5 [Intentionally deleted]
- 3.6.6 Where a spare inner duct does not exist, GTE shall allow and Focal shall be required to install all inner ducts in a spare GTE conduit. If another attaching entity, including GTE, uses the inner duct installed by Focal, GTE shall inform Focal and such entity shall share in the depreciated cost of the installation of the inner duct in proportion to the amount of the inner duct being used by that entity.
- 3.6.7 GTE shall not attach, or permit other entities to attach Facilities on existing Focal Facilities without Focal's prior written consent.

3.7 **Sharing of Rights of Way**

3.7.1 GTE shall offer the use of such ROW it has obtained from a third party to Focal, to the extent that GTE's agreement or easement with the third party does not prohibit GTE from granting such rights to Focal. Focal shall have the right to review the pertinent parts of the agreement or easement between GTE and the third party. In cases where GTE does not have the authority to grant access, GTE shall provide the owner contact information if known to GTE and will not interfere in Focal's obtaining such access and shall not prevent or delay any third party assignment of rights-of-way to Focal.

3.7.2 [Intentionally deleted].

3.8 **Emergency Situations**

3.8.1 Within fifteen (15) business days after the Effective Date, GTE shall establish a non-discriminatory priority method to access GTE manholes and conduits in emergency situations.

3.9 **Attachment Fees**

3.9.1 Focal shall pay to GTE an Attachment Fee, consistent with Applicable Law for each GTE Structure upon which Focal obtains authorization to place an Attachment.

3.9.2 GTE shall maintain an inventory of the GTE Structures occupied by Focal based upon the cumulative Facilities specified in all Requests for Attachment approved in accordance with Section 3.4 of this Attachment 3. Focal shall have the right to remove any Attachment at any time, and it shall be Focal's sole responsibility to notify GTE of any and all removals by Focal of its Attachments from GTE's Structures. Such notice shall be provided to GTE at least thirty (30) days prior to the removal of the Attachments and shall take the form of a Notice of Removal. Focal shall remain liable for an Attachment Fee for each GTE facility included in all approved Attachment Requests until the Attachment is removed by Focal. GTE may, at its option, conduct a physical inventory of Focal's Attachments for purposes of determining the Attachment Fees to be paid by Focal under this section.

3.10 **Additions and Modifications to Existing Attachments**

3.10.1 Focal shall not modify, add to or replace Facilities on any pre-existing Attachment without first notifying GTE in writing of the intended modification, addition or replacement at least thirty (30) days prior to

the date the activity is scheduled to begin. The required notification shall include: (1) the date the activity is scheduled to begin, (2) a description of the planned modification, addition or replacement, (3) a representation that the modification, addition or replacement will not require any space other than the space previously designated for Focal's Attachments, and (4) a representation that the modification, addition or replacement will not impair the structural integrity of the Structures and Facilities involved.

3.10.2 If the modification, addition or replacement specified by Focal in its notice will require more space than that allocated to Focal or will require the reinforcement of replacement of or an addition of support equipment to the Structures or Facilities involved in order to accommodate Focal's modification, addition or replacement, Focal will submit a Attachment Request in compliance with this Section in order to obtain authorization for the modification, addition or replacement of its Facilities.

3.11 **Charges for Unauthorized Attachments**

3.11.1 It is agreed that a charge equal to two (2) times the amount of the then current Attachment Fee shall be paid by Focal to GTE for each Unauthorized Attachment to a GTE Structure for the period of time for which the Attachment is unauthorized provided that the lack of authorization as due to the act, or failure to act, of Focal. Such payment shall be deemed liquidated damages and not a penalty. Focal also shall pay GTE an Attachment Fee for each Unauthorized Attachment accruing from the date the Unauthorized Attachment was first placed on the GTE Structure. In the event that the date the Unauthorized Attachment was first placed on a GTE Structure cannot be determined, such date shall be deemed the date of the last physical inventory made in accordance with this Agreement or, if no physical inventory has been conducted, the date the first Attachment Request from Focal was approved in accordance with this Agreement. If Focal elects to leave the Attachment in place, Focal also shall pay to GTE all costs incurred by GTE to rearrange any Unauthorized Attachment(s) of Focal in order to accommodate the Attachment(s) of another party whose Attachment(s) would not have required a rearrangement but for the presence of Focal's Unauthorized Attachment(s). If Focal elects to leave the Attachment in place, Focal shall also pay to GTE all costs incurred by GTE to reinforce, replace or modify a GTE Structure, which reinforcement, replacement or modification was required as a result of the Unauthorized Attachment of Focal. The Attachment Fee referenced in this subsection shall be determined in the same manner

as such fee would have been determined if the Attachment had been authorized by GTE.

- 3.11.2 For purposes of this section, an Unauthorized Attachment shall include, but not be limited to: (a) an Attachment on or in any GTE Structure, which Structure is not identified in any Attachment Request approved in accordance with this Attachment 3; (b) an Attachment that occupies more space than that allocated to Focal by GTE; (c) an addition or modification to a pre-existing Attachment that impairs the structural integrity of the involved GTE Structure or Facilities; (d) an Attachment installed by Focal for the use of a party other than Focal. An Unauthorized Attachment does not include an Attachment which Focal demonstrates was made mistakenly, but in good faith pursuant to an approved Attachment Request for another location(s).

3.12 **Surveys and Inspections of Attachments**

- 3.12.1 The exact location of Focal's Attachments on or in GTE's Structures may be determined, at GTE's discretion, through a survey to be made by GTE. If so requested, Focal and/or any other entity owning or jointly owning the Structures with GTE may participate in the survey. If the survey reveals one or more unauthorized Attachments by Focal, Focal shall reimburse GTE all expenses incurred in conducting the survey.

- 3.12.2 Apart from surveys conducted in accordance with Section 3.12.1 above, GTE shall have the right to inspect any Attachment of Focal on or in GTE's Structures as conditions may warrant. No joint survey or inspection by GTE shall operate to relieve Focal of any responsibility, obligation or liability assumed under this Agreement.

3.13 **Notice of Modification or Alteration of Poles by GTE**

If GTE plans to modify or alter any GTE Structures upon which Focal has Attachments, GTE shall provide Focal notice of the proposed modification or rearrangement at least sixty (60) days prior to the time the proposed modification or alteration is scheduled to take place. Focal shall be allowed to participate with GTE in such modification or rearrangement. Focal shall make all rearrangements of its Facilities within such period of time as is jointly determined to be reasonable by the Parties based on the amount of rearrangements necessary and a desire to minimize chances for service interruption or facility-based service denial to an Focal customer.

To the extent Focal benefits from such modification or rearrangement or obtains access to such Structure as a result of the modification, Focal shall pay GTE Focal's proportionate share of the costs incurred.

If Focal has a preexisting Attachment to the modified Structure it shall be deemed to directly benefit from a modification if, after receiving notification of such modification, it adds to or modifies its Attachment. Notwithstanding the foregoing, if Focal has a preexisting attachment to a Structure it shall not be required to bear any of the costs of rearranging or replacing its Attachment if such rearrangement or replacement is necessitated solely as a result of an additional Attachment or the modification of an existing Attachment sought by a third party or GTE. If Focal makes an Attachment to the Structure after the completion of the modification, it shall share proportionately in the cost of the modification with GTE and any contributing third parties, if such modification rendered possible the added Attachment.

3.14 Default and Remedies

- 3.14.1 The occurrence of any one of the following shall be deemed a Material Default by Focal: (a) Failure by Licensee to perform or observe any term, condition, covenant, obligation or provision of this Attachment 3 and such default continues for a period of thirty (30) days after written notice thereof from GTE (provided that if such default is not curable within such thirty (30) period, the period will be extended if Licensee commences to cure such default within such thirty (30) day period and proceeds diligently thereafter to effect such cure); (b) Focal's knowing use or maintenance of its Attachments in violation of any law or regulation, or in aid of any unlawful act or undertaking; (c) If any authorization which may be required of Focal by any governmental or private authority for the placement, operation or maintenance of Focal's Attachments is denied or revoked, and any appeals or other actions for review of such denial or revocation have been completed.
- 3.14.2 In the event of a Material Default, the provisions of Section 3.18.1 shall apply.
- 3.14.3 All rights and remedies of GTE set forth in this Agreement shall be cumulative and none shall exclude any other right or remedy, now or hereafter allowed by or available under any statute, ordinance, rule of court, or the common law, either at law or in equity, or both, except that GTE may not exercise any of the remedies set forth in § 3.14.2 if such Material Default is the subject of Alternate Dispute Resolution procedures as set forth in Attachment 1 to the Agreement.

3.15 Termination of Section 3 by Focal

- 3.15.1 Section 3 of Attachment 3 of this Agreement may be terminated by Focal any time prior to the expiration of its term by providing written

notice to GTE of its intent to terminate not less than ninety (90) days prior to the date such termination is to become effective. Within ninety (90) days after the date this Section 3 is terminated, Focal shall cause all of its Attachments to be removed from all of GTE's poles. In the event Focal fails to remove its Attachments as required by this section, GTE shall have the option to remove all such Attachments and store them in a public warehouse or elsewhere at the expense of and for the account of Focal without GTE being deemed guilty of trespass or conversion, and without GTE becoming liable for any loss or damages to Focal occasioned thereby.

3.16 Indemnification

Focal shall indemnify GTE as set forth in Section 10 of the General Terms and Conditions of this Agreement.

3.17 Abandonment

3.17.1 Nothing in this Agreement shall prevent or be construed to prevent GTE from abandoning, selling, assigning or otherwise disposing of any poles, conduit systems, or other GTE property used for Focal's Attachments, provided, however, that GTE shall condition any such sale, assignment or other disposition subject to the rights granted to Focal pursuant to this Agreement. GTE shall promptly notify Focal of any proposed sale, assignment or other disposition of any Structures or other GTE property used for Focal's Attachments.

3.18 Alternate Dispute Resolution

3.18.1 If GTE has declared Focal in default of any provisions of this Section 3, or has otherwise notified Focal that Focal is not in compliance with the terms of this Section 3, either party may invoke the Alternate Dispute Resolution Process, described in Attachment 1, or the procedures described in the Act, the *FCC's First Interconnection Order*, § 1217-1231 and the FCC's Rules at 47 CFR §1.1401-1.1416. GTE will continue to process Attachment Requests pursuant to this Section 3.18.1 so long as ADR or one of the other procedures described in this section has been initiated and is still pending.

3.18.2 GTE will not be relieved of its obligations to process Attachment Requests by Focal if Focal is alleged to be in default of this Section 3 for nonpayment of fees and charges due GTE under this Section 3, so long as such default is (1) the subject of good faith negotiations; (2) the subject of Alternate Dispute Resolution procedures as set forth in Attachment 1 to the Agreement; or (3) being adjudicated before the

FCC or any other court, regulatory body, agency, or tribunal having jurisdiction over such dispute.