



0000007346

ORIGINAL

RECEIVED

BEFORE THE ARIZONA CORPORATION COMMISSION

2001 FEB 26 P 4 43

WILLIAM A. MUNDELL  
Chairman  
JIM IRVIN  
Commissioner  
MARC SPITZER  
Commissioner

ARIZONA CORPORATION COMMISSION  
DOCUMENT CONTROL

IN THE MATTER OF U S WEST  
COMMUNICATIONS, INC.'S  
COMPLIANCE WITH § 271 OF THE  
TELECOMMUNICATIONS ACT OF  
1996.

DOCKET NO. T-00000B-97-0238

**QWEST'S RESPONSE TO RHYTHMS'  
STATEMENT REGARDING LINE  
SHARING PERFORMANCE**

Qwest hereby responds to Rhythms' statement regarding Line Sharing performance, which was entitled "Rhythms Links, Inc. Response to Staff's Information Request for Discovery."<sup>1</sup> Attached hereto is the Affidavit of Barry Orrel, in which Mr. Orrel addresses the Rhythms pleading.

At the workshop, the Facilitator approved the handling of this issue on paper without further workshop proceedings. Therefore, with this response, Qwest understands that this issue is closed.

Arizona Corporation Commission

**DOCKETED**

FEB 26 2001

DOCKETED BY

<sup>1</sup> Rhythms' pleading was not provided in a timely fashion and may not have been served. It was due on February 7, 2001. The pleading itself indicates it was filed and served by hand delivery on February 12, 2001. However, it does not appear that service was accomplished on that date. The undersigned was on the service list and did not receive a hand-delivered copy. Nor did the undersigned receive a copy by email, which is the normal mode of written communication of all communications in this docket. Having received nothing, on February 16, Qwest sent an email noting the lack of a response. Counsel for Rhythms responded that a pleading had been filed and that he would check on the issue. Qwest did not receive a copy of the pleading until February 20 with a cover email that stated the pleading was filed on February 13 (not February 12 as the pleading itself states). The February 20 email did not indicate if service was actually made or, if so, when. Regardless of Rhythms' tardiness and possible failure to serve, Qwest timely responds on the merits.

DATED this 26<sup>th</sup> day of February, 2001

Respectfully submitted,

By: 

Andrew D. Crain  
Charles W. Steese  
Qwest Policy & Law Department  
1801 California Street  
Suite 5900  
Denver, CO 80202  
(303) 672-2926

FENNEMORE CRAIG, P.C.  
Timothy Berg  
3003 North Central Ave., Suite 2600  
Phoenix, AZ 85012  
(602) 916-5421

Attorneys for Qwest Corporation

**ORIGINAL and 10 copies of the  
foregoing filed this 26<sup>th</sup> day of  
February, 2001 with:**

Docket Control  
ARIZONA CORPORATION COMMISSION  
1200 W. Washington St.  
Phoenix, AZ 85007

**COPY of the foregoing hand-delivered  
this 26<sup>th</sup> day of February, 2001, to:**

Maureen A. Scott  
Legal Division  
ARIZONA CORPORATION COMMISSION  
1200 W. Washington St.  
Phoenix, AZ 85007

Deborah Scott, Director  
Utilities Division  
ARIZONA CORPORATION COMMISSION  
1200 W. Washington St.  
Phoenix, AZ 85007

Lyn Farmer, Chief Administrative Law Judge  
Hearing Division  
ARIZONA CORPORATION COMMISSION  
1200 W. Washington  
Phoenix, AZ 85007

**COPY of the foregoing mailed and/  
or e-mailed  
this 26<sup>th</sup> day of February 2001, to:**

Steven H. Kukta  
Darren S. Weingard  
Sprint Communications Company, LP  
1850 Gateway Drive, 7<sup>th</sup> floor  
San Mateo, CA 94404-2567

Thomas Campbell  
Lewis & Roca  
40 N. Central Ave.  
Phoenix, AZ 85004

Joan S. Burke  
Osborn Maledon, P.A.  
2929 N. Central Ave., 21<sup>st</sup> Floor  
PO Box 36379  
Phoenix, AZ 85067-6379

Thomas F. Dixon  
Karen L. Clausen  
MCI Telecommunications Corp.  
707 17<sup>th</sup> Street # 3900  
Denver, CO 80202

Scott S. Wakefield  
Residential Utility Consumer Office  
2828 North Central Ave., Suite 1200  
Phoenix, AZ 85004

Michael M. Grant  
Gallagher & Kennedy  
2600 N. Central Ave.  
Phoenix, AZ 85004-3020

///

///

Michael Patten  
Brown & Bain  
2901 N. Central Ave.  
Phoenix, AZ 85012

Bradley Carroll, Esq.  
Cox Arizona Telcom, LLC  
1550 West Deer Valley Rd.  
Phoenix, AZ 85027

Daniel Waggoner  
Davis, Wright & Tremaine  
2600 Century Square  
1501 Fourth Avenue  
Seattle, WA 98101-1688

Richard S. Wolters  
Maria Arias-Chapleau  
AT&T Law Department  
1875 Lawrence Street # 1575  
Denver, CO 80202

David Kaufman  
e.spire Communications, Inc.  
343 W. Manhattan Street  
Santa Fe, NM 87501

Alaine Miller  
NEXTLINK Communications, Inc.  
500 108<sup>th</sup> Ave. NE, Suite 2200  
Bellevue, WA 98004

Diane Bacon, Legislative Director  
Communications Workers of America  
5818 N. 7<sup>th</sup> St., Suite 206  
Phoenix, Arizona 85014-5811

Nigel Bates  
Electric Lightwave, Inc.  
4400 NE 77<sup>th</sup> Ave.  
Vancouver, WA 98662

Philip A. Doherty  
545 South Prospect Street, Suite 22  
Burlington, VT 05401

W. Hagood Bellinger  
5312 Trowbridge Drive  
Dunwoody, GA 30338

Joyce Hundley  
U.S. Dept. of Justice  
Antitrust Division  
1401 H Street, NW, # 8000  
Washington, DC 20530

Andrew O. Isar  
Telecommunications Resellers Association  
4312 92nd Ave., NW  
Gig Harbor, WA 98335

Raymond S. Heyman  
Randall H. Warner  
Two Arizona Center  
400 North 5<sup>th</sup> Street, Suite 1000  
Phoenix, AZ 85004-3906

Craig Marks  
Citizens Utilities Company  
2901 North Central Avenue, Suite 1660  
Phoenix, Arizona 85012

Douglas Hsiao  
Rhythms Links, Inc.  
6933 Revere Parkway  
Englewood, CO 80112

Mark Dioguardi  
Tiffany and Bosco, PA  
500 Dial Tower  
1850 N. Central Avenue  
Phoenix, AZ 85004

Thomas L. Mumaw  
Snell & Wilmer  
One Arizona Center  
Phoenix, AZ 85004-0001

///

///

Richard Rindler  
Morton J. Posner  
Swider & Berlin  
3000 K Street, NW, Suite 300  
Washington, DC 20007

Charles Kallenbach  
American Communications Services, Inc.  
131 National Business Parkway  
Annapolis Junction, Maryland

Patricia Van Midde  
Assistant Vice President  
AT&T  
111 West Monroe  
Suite 1201  
Phoenix, AZ 85003

Gena Doyscher  
Global Crossing Services, Inc.  
1221 Nicollet Mall  
Minneapolis, MN 55403-2420

Karen L. Clauson  
Eschelon Telecom, Inc.  
730 Second Avenue South, Suite 1200  
Minneapolis, MN 55402

Mark N. Rogers  
Excell Agent Services, LLC  
2175 W. 14<sup>th</sup> Street  
Tempe, AZ 85281

Janet Livengood  
Regional Vice President  
Z-Tel Communications, Inc.  
601 S. Harbor Island Blvd.  
Tampa, FL 33602

Jonathan E. Curtis  
Michael B. Hazzard  
Kelly Drye & Warren, LLP  
1200 19<sup>th</sup> Street, NW, Fifth Floor  
Washington, DC 20036

///

Lindall Nipps  
Allegiance Telecom, Inc.  
845 Camino Sur  
Palm Springs, CA 92262

Andrea P. Harris  
Sr. Manager, Reg.  
Allegiance Telecom, Inc.  
PO Box 2610  
Dublin, CA 94568

Gary L. Lane, Esq.  
6902 East 1<sup>st</sup> Street, Suite 201  
Scottsdale, AZ 85251

J. David Tate  
Senior Counsel  
SBC Telecom, Inc.  
5800 Northeast Parkway, Suite 125  
San Antonio, Texas 78249

Todd C. Wiley  
Gallagher & Kennedy  
2575 E. Camelback Rd.  
Phoenix, AZ 85016

DPoole

BEFORE THE ARIZONA CORPORATION COMMISSION

WILLIAM A. MUNDELL  
Chairman  
JIM IRVIN  
Commissioner  
MARC SPITZER  
Commissioner

IN THE MATTER OF U S WEST  
COMMUNICATIONS, INC.'S  
COMPLIANCE WITH § 271 OF THE  
TELECOMMUNICATIONS ACT OF  
1996.

DOCKET NO. T-00000B-97-0238

**AFFIDAVIT OF BARRY ORREL**

Barry Orrel, of lawful age being first duly sworn, deposes and states:

1. My name is Barry Orrel. I am Director, Technical Regulatory of Qwest Communications in Littleton, Colorado.
2. Attached hereto and made a part hereof for all purposes is my testimony.
3. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded are true and correct to the best of my knowledge and belief.
4. In meetings scheduled by the FCC in December, 2000, Qwest represented to the FCC that it would provide quality checks of POTS splitters located in common bays in its central offices that support line sharing. Attachment A provides detail of Qwest's commitments made in these meetings. Since Rhythms' splitters in Qwest central offices are located in Rhythms collocation space and not in

common bays, Rhythms splitters were not included in the agreed upon audit.

5. As part of the FCC sponsored meetings, however, Qwest also agreed to provide its procedures for line sharing collocation walk-throughs and testing. In this document, proper procedures are explained for acceptance of line sharing arrangements and directions for addressing line sharing order failures. This document was provided to the FCC in December, 2000 and is included as Attachment B.
6. Essentially Attachment B separates quality activities supporting line sharing from those of provisioning individual line sharing orders. Validation of the line sharing arrangement is accomplished at the end of the collocation process with a joint walk-through. Once the line sharing arrangement is accepted, line sharing orders can be provisioned. At that point, failures in line sharing orders are reported to Qwest through normal repair processes.
7. Qwest, as part of its normal collocation procedures, provides a test access point for all collocated CLECs in a central office at a designated intermediate distribution frame. Accordingly, line sharing test access for splitter arrangements and line sharing orders is provided by Qwest and is available to Rhythms at designated intermediate distribution frames for each Rhythms collocation. These test access points provide Rhythms with the capability to test its splitters and identify any wiring errors between the frame and the splitter.
8. During December, 2000, Rhythms asserts it began experiencing large numbers of rejected line-sharing orders in Arizona associated with specific Qwest central offices. Each of these orders has been analyzed. Of the 41 line sharing orders in

question, 36 were determined by Rhythms to be delayed due to Rhythms own splitter wiring errors. Unilateral testing by Rhythms of its cabling at the test access point between the intermediate distribution frame and splitter would have allowed Rhythms to provision its line sharing orders without the need for Qwest intervention.

9. A December 12, 2000 meeting between Qwest and Rhythms resulted in a request by Rhythms for vendor meets to determine the cause of line sharing order provisioning delays. During this meeting Qwest advised Rhythms that the purpose of a vendor meet is to verify collocation installation quality, not to resolve service order provisioning issues. Qwest agreed to provide vendor meets at Rhythms specified collocations to re-certify those collocations. Qwest received an email list of central offices from Rhythms on January 13, 2001, over one month later.
10. Repair tickets were also established by Rhythms on individual service orders and Qwest provided commitment dates between January 29-31, 2001. Qwest technicians tested the appropriate telephone numbers for voice capability and closed the tickets with no trouble found.<sup>1</sup> In a line sharing arrangement, Qwest is responsible for voice signals and Rhythms is responsible for data signals. Each party's respective responsibility is set forth in the permanent line sharing agreement, attached hereto as Attachment C.

---

<sup>1</sup> Rhythms claims that Qwest missed vendor meets for all of the central offices. This is not what occurred. Qwest initially misunderstood the orders as repair tickets and dispatched technicians on the specified dates to verify whether any problems existed. Qwest did not ignore the repair tickets. This initial confusion was then rectified with true "vendor meets" on February 7, 2001.

11. Vendor meets were scheduled and completed February 7, 2001 to visually inspect the line sharing collocation arrangements. Of the 5 central offices recertified by Qwest, only one had stenciling errors attributable to Qwest. This central office (Scottsdale Shea) accounted for 5 of the 41 delayed line sharing orders. The remainder of the central offices suffered from a mistake in cabling connections at the Rhythms collocation caused by Rhythms splitter installers. Dennis Patterson of Rhythms indicated that this error extended to a total of nine central offices. Thus, Rhythms own cabling errors accounted for 36 of the 41 delayed line sharing orders for Rhythms.
12. In summary, Rhythms claim that Qwest delayed entry into the Arizona market because it took sixty days to re-certify Rhythms splitter installations. This is simply inaccurate. One month of the delay was directly attributable to Rhythms, which failed to respond to Qwest for over one month. Moreover, 9 of the Arizona central offices experiencing problems by Rhythms were problems Rhythms created for itself. Only one central office experiencing problems had any association with Qwest. It is not Qwest's responsibility to certify Rhythms' splitter installations. In the line sharing arrangement option where the CLEC places its splitter in its own collocation, as Rhythms has done, Qwest is responsible for cable terminations on the Qwest owned intermediate distribution frame and for correct stenciling of that frame. Walk throughs at the time of the line sharing collocation turnover to Rhythms is the appropriate time to identify intermediate distribution frame and stenciling errors. Rhythms chose not to have walk throughs performed for its collocations. The combination of no walk

throughs and testing of its own splitter is the cause for Rhythms' delayed line sharing entry in Arizona.

\_\_\_\_\_  
BARRY ORREL

SUBSCRIBED AND SWORN to before me this \_\_\_\_\_ day of February, 2001.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

**Steps required for reviewing installation quality for Line Sharing Splitter Collocation sites:**

- 1) Customer Application information must be checked vs. the Designed Work Package to ensure that what was engineered matches the customer desires.
  - a) Collocation Engineering group, Engineering Point of Contacts (EPOCs), and Project Management (CPMC – Collocation Project Management Center) contact.
  - b) Verification of all non-cancelled jobs will be completed by 11/30/00. This verification will involve checking the CLECs applications, changes, DWPs, and APOT data for validity. Discrepancies will be tracked and fixed in the field, working with the CLEC if needed.
- 2) Bay mounted Splitter Installations must be quality-checked via Corning (formerly Siecor) Splitter Card testing
  - a) Corning Streaker card part number is - cosk0pt20000
  - b) A spreadsheet has been generated that includes all of the Line Sharing jobs where Corning Splitters were installed. It is organized by state, then central office, then CLECs that ordered bay-mounted splitters in each central office.
    - i) This spreadsheet resides in the QTI Group Folder.
    - ii) Prior to the Corning Streakers being provided in late July and into September of 2000, manual tests were used to check the circuitry.
    - iii) Corning Streakers test continuity through the Splitter circuitry (NOT each card) by checking grounding vs. expected zero resistance – displays green LEDs if ok (card has own power source)
  - c) Timetable for completing all offices – December 31, 2000.
  - d) Initial Estimate of offices:
  - e) SICM, State Interconnection Manager, to be contacted upon streaker testing completion.

State	Total Offices	Offices Per Week over 6 weeks (11/19/00 – 12/31/00)
AZ	42	7
CO	36	6
IA	2	1
ID	7	2
MN	52	9
MT	1	1
NE	3	1
NM	15	3
OR	19	3 (4 in last week)
UT	21	4
WA	48	8
<b>Grand Total</b>	<b>194</b>	<b>45 (average)</b>

- 3) There is no physical circuitry check possible for “In-the-Cage” Line Sharing. There is also no special test above and beyond resistance testing for Frame-mounted splitters.
- 4) Future Jobs:
  - a) Corning Splitters will be ordered on CLEC 1<sup>st</sup> application Line Sharing jobs (per CLEC per office) by Collocation Engineering Team.
  - b) Training document to be created by 11/22/00 using manufacturer literature to provide to all Contract Liason Managers by ICC (ICC Training Manager)

## **Qwest Line Sharing Walkthrough and Testing**

- CLECs will have the opportunity to view Splitter Installations through their current Collocation/Splitter Collocation Walkthrough process with Qwest State Interconnect Manager (SICM). This process may include:
  - Showing the CLEC their voice and voice/data frame terminations.
  - Showing the data terminations hard-wired to the CLEC DSO terminations.
  - Showing the location of the splitter bay.
  - The SICM will include Central Office Representative and a review of the Line Sharing Central Office provisioning and maintenance process will take place. This review is similar to the process that Qwest representative, Jerry Shypulski conducted with Covad during initial order placement in Minnesota. That review included:
    - Cross-Connect Appearances
    - Use of Tie Cables between Frames
    - POTS Splitter Plug-In Cards
    - Work documents for wiring by Central Office personnel
    - Relationship of wiring of voice/data, voice and data.
  
- For CPE Sync tests, the CLEC has the ability to conduct this test at the Demarcation point at the splitter. CPE Sync tests are the responsibility of the CLEC.
  
- Any trouble reports on line sharing circuit installations should follow the current process for reporting trouble that exists today. (Refer to AMSC information provided on November 9, 2000)

**Amendment No. [REDACTED]**  
**to the Interconnection Agreement**  
**Between**  
**(CLEC)**  
**and**  
**Qwest Corporation**  
**(f/k/a U S WEST Communications, Inc.)**  
**for the State of \_\_\_\_\_**

This Amendment No. [REDACTED] ("Amendment") is made and entered into by and between \_\_\_\_\_ ("CLEC") and Qwest Corporation (formerly known as U S WEST Communications, Inc.) ("Qwest"). CLEC and Qwest may be referred to herein collectively as the "Parties" or individually as a "Party."

**RECITALS**

WHEREAS, CLEC and Qwest entered into an Interconnection Agreement (the "Underlying Agreement") for service in the state of \_\_\_\_\_ that was approved by the \_\_\_\_\_ Public Utility Commission ("Commission"); and

WHEREAS, CLEC and Qwest entered into an amendment to the Underlying Agreement, Amendment No. \_\_\_\_ related to Line Sharing that was approved by the Commission; and

WHEREAS, CLEC and Qwest desire to amend the Underlying Agreement, as amended in Amendment No. \_\_\_\_ to the Underlying Agreement, by incorporating the terms, conditions and rates contained herein.

**AGREEMENT**

NOW, THEREFORE, in consideration of the mutual terms, covenants and conditions contained in this Amendment and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

**1. General.**

This Amendment is made in order to replace the Interim Line Sharing Agreement entered into between CLEC and U S WEST Communications, Inc. on the 24<sup>th</sup> day of April, 2000, and to replace Amendment No. \_\_\_\_ to the Underlying Agreement with the terms, conditions and rates set forth in Attachment 1 to this Amendment and replace both with the terms, conditions and rates as set forth in Attachment 1 to this Amendment.

**2. Effective Date.**

This Amendment shall be deemed effective upon approval by the Commission;

however, the Parties may agree to implement the provisions of this Amendment upon execution. To accommodate this need, CLEC must generate, if necessary, an updated Customer Questionnaire. In addition to the Customer Questionnaire, all necessary billing codes will need to be loaded by Qwest into its billing systems. CLEC will be notified when all billing system updates have been made. Actual order processing may begin once these requirements have been met.

**3. Further Amendments.**

Except as modified herein, the provisions of the Underlying Agreement shall remain in full force and effect. Neither the Underlying Agreement nor this Amendment may be further amended or altered except by written instrument executed by an authorized representative of both Parties.

**4. Proprietary Information.**

Qwest and CLEC agree that the information exchanged during the negotiation of this Amendment, whether in oral, written, graphic, electromagnetic or other tangible form, is Proprietary Information under the Nondisclosure Section of the Underlying Agreement.

**5. Commission Approval.**

Qwest and CLEC agree to work together in good faith to secure expeditious approval of this Amendment by the Commission without modification.

The Parties, intending to be legally bound, have executed this Amendment as of the dates set forth below, in multiple counterparts, each of which is deemed an original, but all of which shall constitute one and the same instrument.

**(CLEC)**

**Qwest Corporation (f/k/a  
U S WEST Communications, Inc.)**

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Name Printed/Typed

\_\_\_\_\_  
Name Printed/Typed

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

## Attachment 1

### 1. Line Sharing

#### 1.1 Description

Line Sharing provides CLEC with the opportunity to offer advanced services simultaneously with an existing end user's analog voice-grade (POTS) service on a single copper loop, referred to herein as the "Shared Loop" or "Line Sharing," by using the frequency range above the voice band on the copper loop. This frequency range will be referred to herein as the high frequency spectrum network element or "HUNE." The POTS service must be provided to the end user by Qwest.

#### 1.2 Terms and Conditions

##### 1.2.1 General

1.2.1.1 To order the HUNE, CLEC must have a POTS splitter installed in the Qwest Wire Center that serves the end user as provided for in either Section 1.3 or Section 1.4 of this Amendment and the end user must have dial tone originating from a Qwest switch in that Wire Center. CLEC must provide the end user with, and is responsible for, the installation of any equipment necessary for the end user to receive separate voice and data service across a single copper loop.

1.2.1.2 POTS splitters must meet the requirements for central office equipment collocation set by the FCC or be compliant with ANSI T1.413.

1.2.1.3 CLEC may use the HUNE to provide any xDSL services that are compatible with Qwest's POTS service. Such services that currently are presumed to meet this standard are ADSL, RADSL, G.lite and Multiple Virtual Line transmission systems. In the future, additional services may be used by CLEC, to the extent those services are deemed acceptable for Line Sharing deployment under applicable FCC rules.

1.2.1.4 Neither CLEC nor Qwest may utilize the high frequency portion of a given copper loop if a different telecommunications carrier already is using the frequency range above the voice band on that loop to provide data services, unless the end user of that loop or Qwest or CLEC, with Proof of Authorization from the end user, disconnects the service of the original telecommunications

carrier being provided on the frequency range above the voice band.

1.2.1.5 CLEC will be able to request conditioning of Shared Loops. Qwest will perform requested conditioning, including removal of load coils and excess bridged taps, of loops. If CLEC requests conditioning, and such conditioning significantly degrades the voice services on a loop to the point that it is unacceptable to the end user, CLEC shall pay the rate set forth in Appendix A of the Underlying Agreement for conditioning to restore the loops to their original state.

1.2.1.6 Qwest will provide CLEC with access to the HUNE through POTS splitters installed in Qwest Wire Centers. POTS splitters may be installed in Qwest Wire Centers in either of the following ways at the discretion of CLEC: (a) via the standard Collocation arrangements set forth in the Collocation Section of the Underlying Agreement; or (b) via Common Area Splitter Collocation as set forth in Section 1.4 of this Amendment. Under either option, POTS splitters will be appropriately hard-wired or pre-wired so that Qwest is not required to inventory more than two points of termination.

1.2.1.7 CLEC will provide Qwest with non-binding, good faith rolling quarterly forecasts for Shared Loop volumes on a Wire Center-by-Wire Center basis. Qwest will keep CLEC forecasts confidential and will not share such forecasts with any person involved in Qwest retail operations, product planning or marketing.

### 1.3 CLEC Collocation Area POTS Splitter

1.3.1 If CLEC elects to have POTS splitters installed in Qwest Wire Centers via the standard Collocation arrangements set forth in the Collocation Section of the Underlying Agreement, CLEC will be responsible for purchasing the POTS splitters. CLEC also will be responsible for installing and maintaining POTS splitters in its Collocation areas within Qwest Wire Centers.

1.3.2 CLEC may designate some or all of its existing DS0 terminations for use in connection with Line Sharing. Qwest will perform any necessary DS0 termination reclassifications, frame re-stenciling and related work for which it is responsible and that is required to provision Line Sharing.

- 1.3.3 CLEC may choose to have Qwest provide the cabling used for DS0 terminations for Line Sharing subject to a charge that will cover the cost of the cabling, plus any additional pass through vendor invoice costs such as applicable state taxes, shipping and handling, incurred by Qwest. In the alternative, CLEC may provide all such cabling to Qwest. Qwest will not be responsible for any inability to obtain cabling from vendors because of equipment shortages or equipment delays.
- 1.3.4 Two Interconnection Tie Pairs (ITPs) and two pre-wired DS0 terminations will be needed to connect POTS splitters to the Qwest network. One ITP will carry both voice and data traffic from the COSMIC/MDF to an appropriate intermediate distribution frame. From this frame, one DS0 termination will carry both voice and data traffic to the POTS splitter located in CLEC's Collocation area. The voice and data traffic will be separated at the POTS splitter. The data traffic will be routed to CLEC's network within its Collocation area. The voice traffic will be routed to the COSMIC/MDF switch termination, COSMIC/MDF via the intermediate distribution frame, using a second DS0 termination and a second ITP.
- 1.3.5 The demarcation point between Qwest's network and CLEC's network will be the place where the combined voice and data loop is cross connected to the intermediate distribution frame.

#### 1.4 Common Area Splitter Collocation

- 1.4.1 If CLEC elects to have POTS splitters installed in Qwest Wire Centers via Common Area Splitter Collocation, the POTS splitters will be installed in those Wire Centers in one of the following locations: (a) in a relay rack as close to CLEC's DS0 termination points as possible; (b) on an intermediate distribution frame to the extent such a frame is available; or (c) where options (a) and (b) are not available due to physical space limitations in the Wire Centers, or in Wire Centers with network access line counts of less than 10,000, on the COSMIC/MDF or in some other appropriate location such as an existing Qwest relay rack or bay. CLEC either may purchase POTS splitters or have Qwest purchase POTS splitters on its behalf subject to full reimbursement as described in Section 2.4.1 of this Amendment. Qwest will be responsible for the installation and maintenance of the POTS splitters, but CLEC will lease the POTS splitters to Qwest at no cost. Qwest may co-mingle the POTS splitter shelves of different telecommunications carriers in a single relay rack or bay or, in the case of the option (c) above, Qwest may co-mingle the POTS splitter shelves with Qwest miscellaneous

equipment. Qwest will not be responsible for shortages of POTS splitters, or Qwest's inability to obtain POTS splitters from vendors, if acting as purchasing agent on behalf of CLEC.

- 1.4.2 CLEC may designate some or all of its existing DS0 terminations for use in connection with Line Sharing. Qwest will perform any necessary DS0 termination reclassifications, frame re-stenciling and related work for which it is responsible and that is required to provision Line Sharing.
  - 1.4.3 CLEC may choose to have Qwest provide the cabling used for DS0 terminations and/or TIE Cables subject to full reimbursement, or CLEC may provide all such cabling to Qwest. Qwest will be responsible for the installation and maintenance of the TIE Cables connecting the POTS splitters and the appropriate distribution frame. In addition, CLEC may request that Qwest directly cable the data port of the POTS splitter to its Collocation area under these same terms. Qwest will not be responsible for any inability to obtain cabling from vendors because of equipment shortages or equipment delays.
  - 1.4.4 Two ITPs and three pre-wired TIE Cables and one pre-wired DS0 termination will be needed to connect the POTS splitters to the Qwest network. One ITP will carry both voice and data traffic from the COSMIC/MDF to an appropriate intermediate distribution frame. From this frame, one TIE Cable will carry both voice and data traffic to the POTS splitter. The voice and data traffic will be separated at the POTS splitter, and the separated voice and data traffic will be routed to the intermediate distribution frame via separate TIE Cables (i.e., the second and third TIE Cables). At the intermediate distribution frame, the data traffic will be routed to CLEC's Collocation area via a DS0 termination, and the voice traffic will be routed to the COSMIC/MDF via a second ITP. In the alternative, CLEC may request that Qwest directly cable the data port of the POTS splitter to the CLEC Collocation area under these same terms.
  - 1.4.5 The demarcation point between Qwest's network and CLEC's network will be at the place where the data loop leaves the POTS splitter on its way to CLEC's Collocated equipment.
- 1.5 Line Sharing Deployment
- 1.5.1 With the exception of the true up described in Section 2.9 of this Amendment, the applications submitted by CLEC to

Qwest for installation of POTS splitters between March 24, 2000 and April 10, 2000 pursuant to the Interim Line Sharing Agreement dated April 24, 2000 will continue to be governed by the rates, terms and conditions of the Interim Line Sharing Agreement. All subsequent applications will be governed by this Amendment. The rates, terms and conditions of the Interim Line Sharing Agreement are incorporated into this Amendment, as Exhibit A attached hereto and incorporated herein, to govern applications submitted by CLEC between March 24, 2000 and April 10, 2000.

1.5.2 New applications for installation of POTS splitters will be processed in the manner outlined in the Collocation Section of the Underlying Agreement for Cageless or Common Collocation.

1.5.3 CLEC may submit applications for additional DS0 termination installations and/or reclassifications to support Line Sharing. Qwest will process any such applications for augmentation and/or reclassification of DS0 terminations under intervals as outlined in this Section.

1.5.3.1 Augmentation intervals will be 30 days, subject to the following terms and conditions identified below:

1.5.3.1.1 CLEC will provide a quarterly forecast to Qwest in advance of placing applications. Upon receipt of the initial forecast, the interval for augments forecasted in the first month will be 60 days. The interval for each subsequent month will be 30 days.

1.5.3.1.2 The forecast must include, at a minimum, the following:

- (a) Month each application will be sent;
- (b) The Wire Center by common name for each application;
- (c) Type of terminations required for each level of connection; and
- (d) Whether the termination types are the same as existing or, if different, what numbering requested on the block.

1.5.3.2 The interval for reclassification will be 15

days, subject to the following terms and conditions identified below:

1.5.3.2.1 If requested reclassification engineering results in additional requirements for DS0 terminations and/or TIE Cable support, the interval will default to the interval for augmentation, which is 30 days.

1.5.3.3 If an application for augmentation and/or reclassification is not included in the above forecast, the application will default to the interval found in the Collocation Section of the Underlying Agreement.

1.5.4 In the event CLEC, or Qwest acting as purchasing agent for CLEC, is unable to procure any equipment needed to complete all work required by applications submitted to Qwest by CLEC, including, but not limited to, POTS splitters or cabling, Qwest will install the subject equipment when available.

1.5.5 If Qwest, acting as purchasing agent for CLEC, is unable to procure in a timely manner any equipment needed to complete all work required by applications submitted to Qwest by CLEC, including, but not limited to, POTS splitters and cabling, CLEC may provide Qwest with the subject equipment. CLEC will be notified by Qwest of the required material on-site date for the affected Qwest Wire Center(s) and CLEC will have two (2) business days to determine if it will be able to provide the subject equipment in advance of the material on-site date. If CLEC does not notify Qwest in writing of its intent to provide the subject equipment within this two (2) business day period, or if CLEC provides such notice to Qwest but then fails to provide Qwest with the subject equipment in a timely manner, Qwest will install the subject equipment when available.

## 2. Rate Elements and True Up

### 2.1 Recurring Rates for Line Sharing

2.1.1 Line Sharing Charge – CLEC will pay a monthly recurring charge to Qwest per Shared Loop for elements associated with providing xDSL service across each Shared Loop. The charge is set forth in Exhibit B attached hereto and incorporated herein.

2.1.1.1 The cost that Qwest claims it will incur to upgrade its OSS to support Line Sharing is \$12,086,608.00 (the "OSS Cost"). \$1.00 of the Line Sharing Charge will be used to reimburse Qwest for these costs over a seven (7) year period. All other telecommunications carriers that order Shared Loops from Qwest also will be required to reimburse Qwest in some manner for these same costs and their demand included in the OSS cost recovery calculation. Once Qwest has fully recovered the subject costs from CLEC and other telecommunications carriers, including the time value of the \$12,068,608.00 at an annual rate of 12.4%, the Line Sharing Charge will be reduced to \$3.89. In the event that Qwest has not fully recovered the subject costs before the Underlying Agreement terminates, the Parties agree that any replacement agreement(s) governing Line Sharing will include a recurring monthly charge of \$1.00 per Shared Loop, or whatever different amount has been mutually agreed to by the Parties or established pursuant to the following paragraph, until such time that Qwest fully recovers the subject costs.

The Parties will re-examine the recovery of the OSS Cost every 18 months. The Parties will determine, at that time, whether Qwest is on track to recover the time value of the \$12,068,608.00 at an annual rate of 12.4% at the end of seven (7) years from the date of this Amendment. If not, the Parties will re-negotiate the amount of the Line Sharing Charge, either upwards or downwards, to be paid for OSS with the express purpose of providing full recovery of the OSS Cost at the end of seven (7) years from the date of this Amendment. Any dispute between the Parties regarding a new amount to be paid for the OSS Cost in the Line Sharing Charge will be resolved pursuant to the dispute resolution provisions set forth in the Dispute Resolution Section of the Underlying Agreement.

## 2.2 Nonrecurring Rates for Line Sharing

2.2.1 Basic Installation Charge – A nonrecurring charge will apply for the installation of each Shared Loop. This charge covers both the installation and the eventual disconnect of the Shared Loop. The charge is set forth in Exhibit B.

## 2.3 Recurring Rates for Common Area Splitter Collocation

2.3.1 Rent and Maintenance Charge – A monthly recurring charge will apply for each POTS splitter located in a Qwest Wire

Center to cover the rent for the space occupied by each such POTS splitter and the maintenance associated with each POTS splitter. The charge is set forth in Exhibit B.

**2.4 Nonrecurring Rates for Common Area Splitter Collocation**

**2.4.1 POTS Splitter Charge** – A nonrecurring charge will apply for each POTS splitter purchased by Qwest on behalf of CLEC. Pursuant to Section 1.4.1 of this Amendment, the charge will equal the cost of the POTS splitters, plus any pass through vendor invoice costs such as taxes, shipping and handling, and any similar charges assessed Qwest by vendors in connection with the purchase of the POTS splitters.

**2.4.2 Engineering Charge** – A nonrecurring charge will apply for each application submitted to Qwest by CLEC for placement of POTS splitters in Qwest Wire Centers. This charge will be assessed per application, not per POTS splitter requested in each application, and it will cover the engineering Qwest will need to perform in connection with such applications. This charge is set forth in Exhibit B.

**2.4.3 Common Area Splitter Collocation Charges** – A nonrecurring charge will apply for the placement of each POTS splitter in a Qwest Wire Center. The charge will differ depending on which of the following architectures is used when placing a given POTS splitter in a Qwest Wire Center:

(a) Option 1 – Consistent with Section 1.4 of this Amendment, POTS splitters may be located in a relay rack or bay with the data connection to CLEC's Collocation area routed through a block on a distribution frame. The charge for this option will cover, among other things, a shelf in the relay rack or bay, necessary TIE Cables and blocks on the distribution frame where CLEC's DS0 terminations terminate. The charge is set forth in Exhibit B.

(b) Option 2 – Consistent with Section 1.4 of this Amendment, POTS splitters may be located in a relay rack or bay with the data connection to CLEC's Collocation area routed directly from the POTS splitter to the Collocation area. The charge for this option will cover, among other things, a shelf in the relay rack or bay, necessary TIE Cables and blocks on a

distribution frame. The charge is set forth in Exhibit B.

- (c) Option 3 – Consistent with Section 1.4 of this Amendment, POTS splitters may be located on a distribution frame with the data connection to CLEC's Collocation area routed through a block on a distribution frame. The charge for this option will cover, among other things, space on a distribution frame, blocks on a distribution frame and necessary TIE Cables. The charge is set forth in Exhibit B.
- (d) Option 4 – Consistent with Section 1.4 of this Amendment, POTS splitters may be located on a distribution frame with the data connection to CLEC's Collocation area routed directly from the POTS splitter to the Collocation area. The charge for this option will cover, among other things, space on a distribution frame, blocks on a distribution frame and necessary TIE Cables. The charge is set forth in Exhibit B.

## 2.5 Nonrecurring Rates for Shared Loop Conditioning and Restoration

- 2.5.1 Conditioning Charge – A nonrecurring charge will apply to the conditioning of Shared Loops if such a charge has been approved by the Commission. Consistent with Section 1.2.1.5 of this Amendment, this charge will cover the removal of load coils and excess bridged tap. The charge, if any, is set forth in Appendix A to the Underlying Agreement.
- 2.5.2 Restoration Charge – A nonrecurring charge will apply whenever, pursuant to Section 1.2.1.5 of this Amendment, Qwest must restore Shared Loops to their original state after being asked by CLEC to condition the Shared Loops. The charge will equal the charge approved by the Commission for removal of load coils and excess bridged taps as set forth in Appendix A to the Underlying Agreement. If the Commission has not approved a charge for conditioning, the charge for restoration will be assessed on a time and materials basis.

## 2.6 Nonrecurring Rates for DS0 Termination Reclassifications

- 2.6.1 Reclassification Charge – A nonrecurring charge will apply for reclassification of existing DS0 terminations to Line Sharing. Consistent with Section 1.3.2 and Section 1.4.2 of this Amendment, this charge will cover frame re-stenciling,

engineering and any other work required to effectuate DS0 termination reclassifications. The charge will be assessed on a time and materials basis.

**2.7 Nonrecurring Rates for DS0 Termination Augmentations**

**2.7.1 Augmentation Charge** – A nonrecurring charge will apply to augment the number of DS0 terminations available for use in connection with Line Sharing. The charge will cover the cost associated with adding DS0 terminations between CLEC's Collocation areas and applicable intermediate distribution frames. The charge is set forth in Appendix A to the Underlying Agreement.

**2.8 Nonrecurring Rates for Repair and Maintenance**

**2.8.1 Trouble Isolation Charge** – A nonrecurring charge will apply for trouble isolation testing performed by Qwest at the request of CLEC in accordance with Section 4.3.3 of this Amendment. This charge will be assessed at the rate approved by the Commission and set forth in Exhibit B. If the Commission has not set or approved a rate, the charge will be assessed on a time and materials basis.

**2.8.2 Additional Testing Charge** – A nonrecurring charge will apply for any additional testing performed by Qwest at the request of CLEC in accordance with Section 4.3.4 of this Amendment. This charge will be assessed on a time and materials basis.

**2.9 True Up**

**2.9.1** The rates established in this Amendment are "mutually agreed to permanent prices," as that term is used in Section 26 of the Interim Line Sharing Agreement dated April 24, 2000 and the Parties agree to true up all charges assessed CLEC by Qwest for Line Sharing under the Interim Line Sharing Agreement to the rates established in this Amendment. The Parties further agree to use good faith, reasonable efforts to conclude this true up within six (6) months of the date this Amendment is approved by the Commission. In the event the Parties are unable to mutually agree on a true up within this six (6) month period, they agree to submit any unresolved issues to an arbitrator for resolution pursuant to the Dispute Resolution Section of the Underlying Agreement.

**2.10 Effectiveness of Rates**

2.10.1 The Parties agree that the rates established in this Amendment will remain in effect without modification until such time as the Underlying Agreement is replaced or terminates unless: (i) both Qwest and CLEC agree in writing to different rates; or (ii) Qwest voluntarily agrees to different rates with another telecommunications carrier and CLEC decides to adopt those rates. Among other things, this means that CLEC cannot adopt rates established by the Commission, a court or another governmental agency or body to the extent those rates differ from the rates established in this Amendment.

### 2.11 Separate Subsidiary

2.11.1 In the event Qwest establishes a separate subsidiary to provide xDSL or other data services, and that separate subsidiary Line Shares with Qwest, Qwest will provision Line Sharing to the separate subsidiary at the same rates Qwest then is using to provide Line Sharing to other telecommunications carriers. Those same rates will be made available to all telecommunications carriers on a nondiscriminatory basis.

## 3. Ordering Process

### 3.1 Shared Loop

3.1.1 As a part of the pre-order process, CLEC can access loop characteristic information through the Loop Information Tool. CLEC will determine, in its sole discretion and at its risk, whether to order the HUNE across any specific copper loop. Qwest and CLEC will work together to modify the Loop Information Tool to better support Line Sharing.

3.1.2 The appropriate DS0 termination frame terminations dedicated to POTS splitters will be provided on the Line Sharing APOT form one (1) day prior to the ready for service date or at an interval ordered by the Commission or further agreed to by Qwest and CLEC in writing. Qwest will administer all cross connects/jumpers.

3.1.3 Basic Installation "lift and lay" procedures will be used for all Shared Loop orders. Under this approach, a Qwest technician "lifts" the loop from its current termination in a Qwest Wire Center and "lays" it on a new termination connecting to CLEC's Collocated equipment in the same Wire Center.

3.1.4 Qwest will provision the Shared Loop within the standard unbundled loop provisioning interval at least 90% of the time. Qwest and CLEC acknowledge that this interval may be subject to improvement based on systems mechanization and/or relevant legal or regulatory requirements.

3.1.5 CLEC shall not place orders for Shared Loops until all work necessary to provision Line Sharing in a given Qwest Wire Center, including, but not limited to, POTS splitter installation and DS0 termination reclassification, has been completed.

### 3.2 Common Area Splitter Collocation

3.2.1 New POTS splitter shelves may be ordered via a single Collocation application form and quote preparation fee. The Collocation intervals contained in this Amendment will apply.

3.2.2 New POTS splitter shelves may be ordered with an existing Collocation arrangement. CLEC must submit a new Collocation application form and the quote preparation fee to Qwest. Standard Cageless and/or Common Collocation intervals will apply as set forth in the Collocation Section of the Underlying Agreement.

### 3.3 DS0 Termination Reclassifications

3.3.1 To the extent CLEC has existing DS0 terminations extending from an intermediate distribution frame to its Collocation space, CLEC may request that these existing DS0 terminations be reclassified for use with Line Sharing as set forth in Section 1.5.3 of this Amendment. CLEC shall request such reclassification through the same process used to order new DS0 terminations.

## 4. Repair and Maintenance

4.1 Qwest will allow CLEC to access Shared Loops at the point where the combined voice and data circuit is cross connected to the POTS splitters.

4.2 Qwest will be responsible for repairing voice services provided over Shared Loops and the physical line between network interface devices at end user premises and the point of demarcation in Qwest Wire Centers. Qwest also will be responsible for inside wiring at end user premises in accordance with the terms and conditions of inside wire maintenance agreements, if any, between Qwest and its end users. CLEC will be responsible for repairing data services provided on Shared Loops. Qwest and CLEC each will be responsible for maintaining its equipment. The

entity that controls the POTS splitters will be responsible for their maintenance.

4.3 Qwest and CLEC will continue to develop repair and maintenance procedures for Line Sharing and agree to document final agreed to procedures in a methods and procedures document that will be made available on Qwest's web site. In the interim, Qwest and CLEC agree that the following general principles will guide the repair and maintenance process for Line Sharing.

4.3.1 If an end user reports a voice service problem that may be related to the use of a Shared Loop for data services, Qwest and CLEC will work together and with the end user to solve the problem to the satisfaction of the end user. Qwest will not disconnect the data service provided to an end user over a Shared Loop without the written permission of CLEC unless the end user's voice service is so degraded that the end user cannot originate or receive voice grade calls and/or the end user authorizes Qwest to disconnect the data service. Qwest will notify CLEC whenever this occurs upon voice trouble ticket closure.

4.3.2 Qwest and CLEC each are responsible for their respective end user base and services.

4.3.3 Qwest will test for electrical faults (i.e., opens, shorts, and/or foreign voltage) on Shared Loops in response to trouble tickets initiated by CLEC. When trouble tickets are initiated by CLEC, and such trouble is not located in Qwest's network, Qwest will assess CLEC the charge specified in Section 2.8.1 of this Amendment.

4.3.4 When trouble reported by CLEC is not isolated or identified by tests for electrical faults (i.e., opens, shorts, and/or foreign voltage), CLEC may request that Qwest perform additional testing and Qwest may decide to not perform the requested testing where it believes in good faith that additional testing is unnecessary because the test requested has already been performed or otherwise duplicates the results of a previously performed test. In this case, Qwest will provide CLEC with the relevant test results on a case-by-case basis. If this additional testing uncovers electrical fault trouble in the portion of the network for which Qwest is responsible, CLEC will not be charged by Qwest for the testing. If this additional testing uncovers a problem in the portion of the network for which CLEC is responsible, Qwest will assess CLEC the charge specified in Section 2.8.2 of this Amendment.

- 4.4 When POTS splitters are installed in Qwest Wire Centers via Common Area Splitter Collocation, CLEC will order and install additional splitter cards as necessary to increase the capacity of the POTS splitters. CLEC will leave one unused, spare splitter card in every shelf to be used for repair and maintenance until such time as the card must be used to fill the shelf to capacity.
  - 4.5 When POTS splitters are installed in Qwest Wire Centers via standard Collocation arrangements, CLEC may install test access equipment in its Collocation areas in those Wire Centers for the purpose of testing Shared Loops. This equipment must meet the requirements for central office equipment set by the FCC.
  - 4.6 Qwest and CLEC will work together to address end user initiated repair requests and to prevent adverse impacts to the end user.
5. Other
- 5.1 Qwest and CLEC agree to the foregoing rates, terms and conditions for Line Sharing without waiving current or future relevant legal rights and without prejudicing any position Qwest or CLEC may take on relevant issues before state or federal regulatory or legislative bodies or courts of competent jurisdiction. This Section specifically contemplates, but is not limited to, the following: (i) the positions Qwest and CLEC take in any cost docket; and (ii) the positions Qwest or CLEC might take before the FCC or any state public utility commission related to the rates, terms and conditions under which Qwest must provide CLEC with access to Shared Loops.
  - 5.2 Qwest and CLEC agree to work together to address and, where necessary and possible, find solutions for the following Line Sharing implementation issues: (i) the development of processes for handling all orders for the HUNE which reflect different end user action scenarios including but not limited to; end user changes or disconnects voice service; end user changes or disconnects data service provider; and/or end user orders new voice and data service simultaneously; (ii) Qwest's ability to handle the existing and forecasted volume of all orders for the HUNE; (iii) Qwest's ability to make loop assignments for the existing and forecasted volume of CLEC orders for the HUNE; (iv) the ability of Qwest and CLEC to coordinate repairs; (v) the experience and education of the Shared Loop end user; (vi) CLEC's forecasts of HUNE orders; (vii) the process for conditioning Shared Loops by removing load coils and excess bridged taps; and (viii) the ability of CLEC to order a HUNE to serve end users over fiber-fed loops, including loops comprised of digital loop carrier facilities

## EXHIBIT A INTERIM LINE SHARING AGREEMENT

This Interim Line Sharing Agreement ("Agreement") between U S WEST Communications, Inc. ("ILEC") and @Link Networks, Inc., Arrival Communications, Inc., BridgeBand Communications, Inc., CDS Networks, Inc., Contact Communications, DIECA Communications, Inc. d/b/a Covad Communications Company, Jato Communications Corp. on behalf of its operating subsidiaries Jato Operating Corp. and Jato Operating Two Corp., Montana Wireless, Inc., MULTIBAND Communications, Inc., New Edge Network, Inc. d/b/a New Edge Networks, NorthPoint Communications, Inc., RHYTHMS LINKS, INC., and Western Telephone Integrated Communications, Inc. ("CLEC" or "CLECs") is entered into this 24th day of April, 2000, to govern deployment of line sharing in the states of Arizona, Colorado, Idaho, Iowa, Montana, Nebraska, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming. The Agreement is effective as of the date referenced in the preceding sentence and will terminate on a state-by-state, CLEC-by-CLEC basis when line sharing amendments to the interconnection agreements between ILEC and CLECs are approved by the relevant state public utility commissions as required by paragraph 36 below. ILEC and CLECs are referred to in this Agreement individually as a "Party" or collectively as the "Parties."

### GENERAL

1. ILEC will provide CLEC with access to the frequency range above the voiceband on a copper loop facility used to carry analog circuit-switched voiceband transmissions. This frequency range will be referred to in this document as the "high frequency spectrum network element" or "HUNE". CLEC may use this access to provision any voice compatible xDSL technologies. Specifically permissible are ADSL, RADSL, G.lite and any other xDSL technology that is presumed to be acceptable for shared line deployment in accordance with FCC rules. Under this Agreement, "line sharing" is defined as the situation that exists when the CLEC has access to the HUNE and provides xDSL services on a loop that also carries ILEC POTS.
2. To order the HUNE, a CLEC must have a POTS splitter installed in the central office that serves the end-user of the loop. In addition, the CLEC must provide the end-user with, and is responsible for the installation of, a splitter, filter(s) and/or other equipment necessary for the end-user to receive separate voice and data services across the loop.
3. On or before June 6, 2000, ILEC will begin accepting orders for the HUNE on lines served out of every central office where CLEC has a POTS splitter installed.
4. Prior to July 31, 2000, the CLECs will not request conditioning of shared lines to remove load coils, bridged taps or electronics. If ILEC begins conditioning lines for its xDSL services, CLECs will have the same option. By July 31, 2000, unless another date is agreed to by ILEC and CLEC in writing, the CLEC will be able to request conditioning of a shared line. ILEC will perform requested conditioning, including de-loading and removal of excess bridged taps, unless

ILEC demonstrates in advance that conditioning that shared line will significantly degrade the end-user's analog voice service.

5. The CLECs initially will use ILEC's existing pre-qualification functionality and order processes to pre-qualify lines and order the HUNE. The CLECs will determine, in their sole discretion and at their risk, whether to order the HUNE across any specific loop. ILEC and the CLECs will continue to work together to modify these functionalities and processes to better support line sharing.
6. ILEC will initially provision the HUNE within the current standard unbundled loop provisioning interval at least 90% of the time. The Parties acknowledge that this interval may be subject to improvement based on systems mechanization and/or relevant state or federal regulatory orders.

#### **POTS SPLITTER COLLOCATION AND OPERATION OF LINE SHARING EQUIPMENT**

7. ILEC will provide CLEC with access to the shared line in one of the following ways, at the discretion of CLEC:
  - (a) CLEC may place POTS splitters in ILEC central offices via Common Area Splitter Collocation. In this scenario, CLEC will have the option to either purchase the POTS splitter of its choosing or to have ILEC purchase the POTS splitter on the CLEC's behalf subject to full reimbursement. The CLEC will lease the POTS splitter to ILEC at no cost. Subject to agreed to or ordered pricing, ILEC will install and maintain the POTS splitter in the central office. ILEC will install the POTS splitter in one of three locations in the central office: (i) in a relay rack as close to the CLEC DSO termination points as possible; (ii) where an intermediate frame is used, on that frame; or (iii) where options (i) or (ii) are not available, or in central offices with network access line counts of less than 10,000, on the main distribution frame or in some other appropriate location, which may include an existing ILEC relay rack or bay.
  - (b) CLEC may, at its option, place the POTS splitters in its own collocation area. ILEC will reclassify TIE cables, re-stencil framing, and perform any related work required to provision line sharing.
  - (c) Under either option (a) or (b), the POTS splitter will be appropriately hard wired or pre-wired so that ILEC is required to inventory no more than two points of termination.
8. In the event CLEC, or ILEC acting as purchasing agent for CLEC, is unable to procure line sharing equipment (i.e., POTS splitters, cabling, etc.) for Common Area Splitter Collocation in a timely manner, ILEC will proceed with the line sharing deployment schedules set forth in paragraphs 12 and 13 below and install the delayed equipment once the deployment for the subject state is completed. If the delayed equipment still is not available once the deployment

for the subject state is completed, ILEC and CLEC will work together to establish an alternate deployment schedule for the affected central offices.

- (a) If the ILEC, acting as purchasing agent for the CLEC, is unable to procure line sharing equipment for Common Area Splitter Collocation in a timely manner, then the CLEC may provide ILEC with the missing equipment. However, the deployment schedules set forth in this Agreement may be impacted. If impacted, the deployment will follow the terms and conditions described above.
  - (b) If ILEC is acting as purchasing agent for more than one CLEC in a central office and is unable to procure line sharing equipment for one or more of the CLECs in a timely manner, then none of the CLECs using the ILEC as purchasing agent will be able to order the HUNE in that central office until the equipment is installed for all such CLECs. This requirement does not apply to a CLEC that, upon being contacted by the ILEC of the equipment shortage, provides its own equipment to ILEC for installation. The CLEC will be notified by the ILEC of the required material on-site date for that central office and will have 2 business days to determine if the CLEC will be able to provide its own equipment.
9. CLEC and ILEC may use any POTS splitter that meets the requirements for central office equipment collocation set by the FCC in its March 31, 1999 order in CC Docket No. 98-147.
  10. If a CLEC requests that a central office where it is not currently collocated be provisioned for line sharing, the CLEC will indicate its request on the collocation application for that central office.
  11. CLEC will provide ILEC with applications for placement of POTS splitters in central offices based on the order set forth on the confidential Central Office Deployment List agreed to jointly by the CLECs and the ILEC and on the schedule set forth below. If the application date is missed by any CLEC, ILEC will accept the CLEC's late applications and install the POTS splitter within 30 days of the end of the schedule for the state where the central office is located or the normal interval for collocation under the CLEC's interconnection agreement, whichever is later. ILEC and CLEC will work together to resolve any problems with order-related data included on the applications within 5 business days of the CLEC receiving notification of the problems from ILEC. If the Parties are unable to resolve the problems after 5 business days, the application will be treated as a late application as defined above. Any changes received from the CLEC after 5 business days of the initial application date will also result in the application being treated as a late application.

First 145 Central Offices	March 24, 2000
Next 85 Central Offices	March 29, 2000
Next 65 Central Offices	April 3, 2000
Remaining Central Offices	April 10, 2000

12. Assuming CLEC reuses existing TIE cable capacity, ILEC will complete the TIE cable reclassification necessary to permit a CLEC to complete placement of POTS splitters in its own collocation areas in the central offices identified on the Central Office Deployment List based on the following schedule:

DATE	TOTAL NUMBER OF CUMULATIVE CENTRAL OFFICES
May 15, 2000	40-50
May 29, 2000	130-150
June 6, 2000	All remaining central offices identified on the Central Office Deployment List

Additional TIE cables will be installed in accordance with the standard intervals and processes set forth in the interconnection agreements between ILEC and CLECs at the completion of this deployment schedule or under an installation schedule mutually agreed upon by CLEC and ILEC. In situations where a CLEC places POTS splitters in its collocation areas, CLEC may begin placing orders for the HUNE in the central offices identified on the Central Office Deployment List in accordance with the above schedule.

13. ILEC will complete Common Area Splitter Collocation in the central offices identified on the Central Office Deployment List based on the following schedule:

DATE	TOTAL NUMBER OF CUMULATIVE CENTRAL OFFICES
May 15, 2000	40-50
May 29, 2000	130-150
June 6, 2000	165-180
June 26, 2000	230-260
July 31, 2000	All remaining central offices identified on the Central Office Deployment List

If a CLEC chooses to have POTS splitters placed in central offices via Common Area Splitter Collocation, CLEC may begin placing orders for the HUNE in the central offices identified on the Central Office Deployment List in accordance with the above schedule.

14. To deploy POTS splitters in a central office identified on the Central Office Deployment List, the CLEC must either: (a) have an existing collocation presence in the central office; or (b) have pending applications for collocation in the central office as of March 10, 2000.
15. If ILEC receives an application for new collocation in a central office that does not appear on the Central Office Deployment List, or where the applying CLEC does not meet the requirements of the preceding paragraph, ILEC will treat the application as a standard collocation application under the terms and conditions

of the applicable interconnection agreement. CLEC will be able to order the HUNE in such offices beginning on the date the collocation installation is completed or July 31, 2000, whichever is later.

16. ILEC and the CLECs agree to work together to address and, where necessary and possible, find solutions for the following "Line Sharing Implementation Issues": (a) the implementation of an effective phased process to handle CLEC orders for the HUNE; (b) ILEC's ability to handle the existing and forecasted volume of CLEC orders for the HUNE; (c) ILEC's ability to make central office loop assignments for the existing and forecasted volume of CLEC orders for the HUNE; (d) the ability of ILEC and CLEC to coordinate repairs; (e) the experience and education of the shared line end-user; (f) the CLEC's forecasts of shared line orders; and (g) the process for conditioning loops for line sharing.
17. Beginning on April 1, 2000, the CLECs will provide ILEC with non-binding, good-faith rolling quarterly forecasts for shared line volumes on a state-by-state, central office-by-central office basis. Additionally, CLEC will provide a 1.5 year non-binding, good-faith forecast by quarter to ILEC by June 1, 2000. ILEC will keep CLEC forecasts confidential and will not share such forecasts with any person involved in ILEC retail operations, product planning or marketing.

#### **REPAIR AND MAINTENANCE**

18. ILEC will allow the CLECs to access the combined voice and data line at the point where it is cross-connected to the POTS splitter. Under the scenario described in paragraph 7(a) above, the point of demarcation will be at the place where the data loop leaves the POTS splitter on its way to the CLEC's collocated equipment. Under the scenario described in paragraph 7(b) above, the point of demarcation will be where the shared line is cross-connected to the POTS splitter.
19. ILEC will be responsible for repairing voice services provided over the shared line and the physical line between the network interface device at the end-user premise and the point of demarcation in the central office. ILEC also will be responsible for inside wiring in accordance with the terms and conditions of inside wire maintenance agreements, if any, between ILEC and the end-users. CLECs will be responsible for repairing data services provided over the HUNE portion of the shared line. Each Party will be responsible for maintaining its own equipment. The Party that controls the POTS splitter will be responsible for maintaining it.
20. ILEC and CLEC are continuing to develop repair and maintenance procedures and agree to document final agreed-to procedures in a methods and procedures document that will be available on ILEC's web site. In the interim, ILEC and CLEC agree that the following general principles will guide the repair and maintenance process:

- (a) If an end-user complains of a voice problem that may be related to the use of the shared line for data services, CLEC and ILEC will work together and with the end-user to solve the problem to the satisfaction of the end-user. ILEC will not disconnect the data service without the written permission of the CLEC unless the end-user's voice service is so degraded that the end-user cannot originate or receive voice grade calls.
  - (b) Each Party is responsible for its own end-user base and will have the responsibility for resolution of any service trouble report(s) from its end-users. ILEC will test for electrical faults (i.e., opens, shorts, and/or foreign voltage) on the shared line in response to trouble tickets initiated by the CLEC.
  - (c) When trouble has been reported by CLEC, and such trouble is not an electrical fault in ILEC's network, ILEC will charge CLEC any applicable charges approved by the relevant state public utility commission.
  - (d) When trouble reported by CLEC is not isolated or identified by tests for electrical faults, ILEC may perform additional testing as requested by CLEC on a case-by-case basis. If this additional testing uncovers electrical fault trouble in the portion of the network for which the ILEC is responsible under this Agreement, the CLEC will not be charged for the testing. If the additional testing uncovers a problem in the portion of the network for which the CLEC is responsible under this Agreement, the CLEC will be charged any applicable charges set forth in interconnection agreements between ILEC and CLECs or by the relevant state public utility commissions. Where no such charges exist, CLEC will pay for such testing on a time and materials basis.
21. When the POTS splitter is placed in the central office via Common Area Splitter Collocation, CLEC will order and install additional splitter cards as necessary to increase POTS splitter capacity from the initial installation. CLEC will leave one empty card in every shelf to be used for repair and maintenance until such time as the card must be used to fill the shelf to capacity.
22. When the POTS splitter is located in the CLEC collocation area, CLEC may install test access equipment in its collocation area for the purpose of testing the shared line. This equipment must comply with the safety requirements set forth in any applicable FCC rules. When the POTS splitter is placed in the central office via Common Area Splitter Collocation, CLEC will have the ability to perform intrusive testing at the test access point on a line-by-line basis.

**PRICING**

23. ILEC and the CLECs agree to the following negotiated, interim prices for shared lines, splitter collocation and other elements noted in the following table:

Category	Element	Interim Price
----------	---------	---------------

Shared Line Non-Recurring	Installation option is basic installation – lift and lay	IA* price for basic installation – lift and lay
Shared Line Recurring	HUNE	Paragraph 25
	2 ITP/EICT – Interconnection Tie Pairs or Expanded Interconnection Channel Terminations	IA price
Common Area Splitter Collocation Non-Recurring	Installation	\$5,000.00 per shelf
Common Area Splitter Collocation Recurring	Equipment bay – per shelf	\$4.85 per shelf
Cost of POTS splitters if provided by ILEC	POTS splitter	Market cost – in addition to the \$5,000.00 flat rate
Non-recurring for TIE cable reclassification	TIE cables	Time and material for engineering and labor
Repair and Maintenance	Trouble Isolation and Additional Testing	Paragraph 20 (c) and (d)
Line Conditioning	Load Coil and Excess Bridged Tap Removal	IA price

\* The relevant interconnection agreement between ILEC and CLEC.

24. ILEC and CLECs will continue work to arrive at appropriate cost recovery for operational support systems upgrades related to the shared line.
25. CLECs may choose from either of the following options for an interim recurring shared line rate:
- (a) A rate of \$5.40 per month per shared line; or
  - (b) A rate of \$0 per month per shared line until January 1, 2001. On January 1, 2001, the interim recurring shared line rate will change to \$8.25 unless ILEC continues to charge a rate of \$0 per month per shared line to one or more CLECs as of that date. In the event ILEC continues to charge a rate of \$0 per month per shared line to one or more CLECs as of January 1, 2001, ILEC will continue to charge all CLECs that selected this interim recurring shared line rate option a rate of \$0 per month per shared line until such time as it begins to charge all CLECs \$8.25 per month per shared line.
- CLECs must select one of the foregoing options for an interim recurring shared line rate by May 1, 2000, and must notify ILEC of their selection through their account teams. Once a selection is made, a CLEC cannot change its selection.
26. All interim prices will be subject to true up based on either mutually agreed to permanent pricing or permanent pricing established in a line sharing cost proceeding conducted by state public utility commissions. In the event interim prices are established by state public utility commissions before permanent prices are established, either through arbitration or some other mechanism, the

interim prices established in this Agreement will be changed to reflect the interim prices mandated by the state public utility commissions; however, no true up will be performed until mutually agreed to permanent prices are established or permanent prices are established by state public utility commissions.

27. During the 60 day period immediately following the effective date of this Agreement, the Parties agree to negotiate in good faith in an effort to arrive at mutually agreed to permanent pricing for all of the elements listed in paragraph 23 above and operational support system upgrades related to line sharing. If at the conclusion of this 60 day period, the Parties have been unable to mutually agree to permanent pricing for some or all of such elements and/or operational support system upgrades related to line sharing, the Parties agree to ask the state public utility commissions for each of the states listed in the introductory paragraph of this Agreement to initiate a line sharing cost proceeding to establish permanent pricing for all elements, potentially including operational support system upgrades related to line sharing, still in dispute at that time.

#### **OTHER**

28. This Agreement constitutes the entire agreement between the Parties and supersedes all prior oral or written agreements, representations, statements, negotiations, understandings, proposals, and undertakings with respect to the subject matter hereof.
29. ILEC and CLEC enter into this Agreement without waiving current or future relevant legal rights and without prejudicing any position ILEC or CLEC may take on relevant issues before state or federal regulatory or legislative bodies or courts of competent jurisdiction. This clause specifically contemplates but is not limited to: (a) the positions ILEC or CLEC may take in any cost docket related to the terms and conditions of line sharing; and (b) the positions that ILEC or CLEC might take before the FCC or any state public utility commission related to the terms and conditions under which ILEC must provide CLEC with access to the HUNE.
30. The provisions in this Agreement are based, in large part, on the existing state of applicable law, rules, and regulations ("Existing Rules"). Among the Existing Rules are certain FCC orders, including the FCC's Third Report and Order in CC Docket No. 98-147 and Fourth Report and Order in CC Docket No. 96-98 released on December 9, 1999, which currently are being challenged. To the extent the Existing Rules are changed, vacated, dismissed, stayed or modified, the Parties shall amend this Agreement to reflect such change, vacation, dismissal, stay, or modification. Where the Parties fail to agree upon such an amendment, all disputed issues will be resolved in accordance with the dispute resolution provisions of the interconnection agreements between ILEC and CLECs incorporated by reference into this Agreement.

31. In addition to those provisions specifically referenced elsewhere in this Agreement, the provisions in the interconnection agreements between ILEC and CLECs related to the following are incorporated by reference into this Agreement: (a) limitation of liability; (b) indemnification; (c) force majeure; (d) warranties; and (e) dispute resolution. These provisions are incorporated on a state-by-state, CLEC-by-CLEC basis.
32. This Agreement is the joint work product of the Parties, has been negotiated by the Parties and shall be interpreted fairly in accordance with its terms and conditions. In the event of any ambiguities, no inferences shall be drawn against any Party.
33. This Agreement only may be amended in writing executed by all Parties to be bound by the amendment.
34. During the term of this Agreement, if ILEC either (a) enters into an agreement with any Party that modifies the rates, terms, and conditions of this Agreement as applied to that Party, or (b) enters into any other agreement for line sharing with any party containing rates, terms, and conditions different from those in this Agreement, ILEC will make such modified or different rates, terms, and conditions available to any interested Party. To the extent the modified or different rates, terms, and conditions are provided by ILEC only in certain locations or pursuant to some other limitation, then the modified or different rates, terms, and conditions only will be made available to interested Parties in those locations or subject to those same limitations. Unless otherwise agreed to by the Parties, this paragraph will not be incorporated into any interconnection agreement amendments entered into between ILEC and CLECs pursuant to paragraph 36 below.
35. This Agreement may be executed in multiple counterparts, each of which shall be deemed an original, but all of which shall together constitute but one and the same document. This Agreement may be executed where indicated below either by an original signature of a duly authorized representative of each Party or by a facsimile of such a signature.
36. ILEC and CLECs acknowledge the need to execute amendments to their interconnection agreements by June 6, 2000, to govern line sharing. The Parties further acknowledge that the rates, terms, and conditions of this Agreement will form the basis for the negotiation of the amendment. This Agreement will terminate upon execution of such amendments and will be replaced by the amendments. ILEC and CLEC further agree that any applicable window for petitioning a state public utility commission for arbitration of an interconnection agreement amendment for line sharing that would expire before June 6, 2000 is extended to June 16, 2000.
37. The Parties will work together to schedule a conference call with the state public utility commissions for each state listed in the introductory paragraph to this Agreement to explain this Agreement and answer any questions related to the

Agreement. The Parties agree to work together to schedule and provide notice of the call in the most efficient and expeditious manner possible. The Parties further agree to respond to any questions or information requests from state public utility commissions in a joint manner and, in so doing, take all reasonable steps to preserve the confidentiality of the Central Office Deployment List.

38. The Parties will work together in good faith to address any problems that may arise in the execution of any part of this Agreement.

**Any CLEC that is not a party to this Agreement may opt into this Agreement at any time prior to its expiration. CLECs must notify ILEC of which of the two options for interim shared line rates outlined in paragraph 25 above it selects at the time it opts into this Agreement or by May 1, 2000, whichever is later.**

#### **EXHIBIT B LINE SHARING RATES**

##### Recurring Rates for Shared Loops

Line Sharing Charge	\$4.89*
---------------------	---------

##### Nonrecurring Rates for Shared Loops

Basic Installation Charge	\$20.00
---------------------------	---------

##### Recurring Rates for Common Area Splitter Collocation

Rent and Maintenance Charge	\$3.54
-----------------------------	--------

##### Nonrecurring Rates for Common Area Splitter Collocation

Engineering Charge	\$1,000.00
--------------------	------------

Option 1	\$3,026.90
----------	------------

Option 2	\$2,876.30
----------	------------

Option 3 \$856.49

Option 4 \$1,739.32

Nonrecurring Rates for Repair and Maintenance

Trouble Isolation Charge **\$ See State**

**Specific Rates**

**Commission Approved Rate (time and materials if no rate has been set by a Commission.)**

\* Pursuant to Section 2.1.1.1 of this Amendment, the Line Sharing Charge will be reduced to \$3.89 once Qwest has fully recovered the costs it will incur to upgrade its OSS to support Line Sharing.