

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**In the Matter of the Petition of Qwest
Corporation to Initiate a Mass-Market
Switching and Dedicated Transport Case
Pursuant to the Triennial Review Order**

Docket No. UT-033044

REBUTTAL TESTIMONY OF

DENNIS PAPPAS AND MATTHEW WHITE

ON BEHALF OF

QWEST CORPORATION

FEBRUARY 17, 2004

EXHIBITS LIST FOR BHC TESTIMONY

Exhibit DP/LN-28 **David Ehreth, *WestWave, Strategies for Unbundling Remote Access Terminals* (dated Oct. 16, 2000).**

Exhibit DP/LN-29 **Line Splitting/Loop Splitting Diagrams Presented as Batch Hot Cut Exhibit 4 by Michael Zulevic, Covad**

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1

I. IDENTIFICATION OF WITNESSES

2 **Q. WHO IS SPONSORING THIS TESTIMONY?**

3 A. This testimony is sponsored by two witnesses, Dennis Pappas and Matthew White.

4 **Q. WHICH PORTIONS OF THIS TESTIMONY IS EACH WITNESS RESPONSIBLE**
5 **FOR?**

6 A. Mr. Pappas is responsible for the portions of this testimony addressing the overall design of
7 the proposed batch hot cut process (“BHCP”), and the particular operational and network
8 questions that CLECs have raised with respect to this new process. Mr. Pappas explains
9 how Qwest’s proposed BHCP alleviates the CLEC concerns and meets the FCC’s directive
10 to establish a procedure for the seamless migration of stand-alone unbundled loops.

11 Mr. White is responsible for the portions of this testimony answering CLECs’ concerns
12 regarding the planned operational support systems (“OSS”) that support the batch hot cut
13 processes, including the CLEC pre-ordering and ordering systems. Mr. White will explain
14 the OSS modifications Qwest is proposing as part of the BHCP to enable CLECs to order
15 larger quantities of stand-alone unbundled loops more efficiently and to track the status of
16 those orders and Qwest’s progress in cutting the ordered loops over to the CLECs’
17 switches.

18 **Q. MR. PAPPAS, PLEASE STATE YOUR NAME, EMPLOYER, AND BUSINESS**
19 **ADDRESS.**

1 A. My name is Dennis Pappas. I am employed by Qwest Corporation as a Director in the
2 Technical-Regulatory Group of the Local Network Organization. My business address is
3 700 W. Mineral Avenue, Room MNH19.15, Littleton, Colorado 80120.

4 **Q. HAVE YOU PREVIOUSLY FILED TESTIMONY ON THE BATCH HOT CUT**
5 **PROCESS IN THIS DOCKET?**

6 A. Yes. I filed direct testimony on the BHCP on January 23, 2004.

7 **Q. MR. WHITE, PLEASE STATE YOUR NAME, EMPLOYER, AND BUSINESS**
8 **ADDRESS.**

9 A. My name is Matthew White. I am a Staff Advocate of Policy and Law in Qwest Service
10 Corporation, a unit of Qwest. My business address is 930 15th Street, Denver, Colorado
11 80202.

12 **Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS DOCKET?**

13 A. I filed response testimony on February 2, 2004 in this docket. Regarding BHCP, I am
14 adopting the Lynn Notarianni's portion of the Dennis Pappas/Lynn Notarianni testimony
15 that was filed on January 23, 2004. For ease of reference, we have retained the exhibit
16 number designations used in the January 23, 2004 testimony, i.e., DP/LN-26.

17 **Q. WHAT IS THE PURPOSE OF YOUR RESPONSE TESTIMONY?**

18 A. The purpose of our response testimony is to respond to the direct testimony on the Batch
19 Hot Cut Process ("BHCP") of Patty Lynott, on behalf of McLeod USA, Robert V. Falcone
20 on behalf of AT&T Communications, Tim Gates and Sherry Lichtenberg, jointly on behalf
21 of Worldcom, Inc. (MCI), and Michael Zulevic, on behalf of Covad Communications.

1 **II. EXECUTIVE SUMMARY AND ORGANIZATION OF TESTIMONY**

2 **Q. PLEASE SUMMARIZE THIS TESTIMONY.**

3 A. In our opening testimony, we described how Qwest worked with the CLECs during the
4 Batch Hot Cut Forum to reach agreement on the broad outlines of a new, region-wide
5 process for performing large quantities of hot cuts in the same central office simultaneously
6 and efficiently. We described how Qwest is streamlining its loop-by-loop hot cut
7 procedures, developing new automated scheduling and notification tools at the CLECs'
8 request, and working with the CLECs to eliminate the redundant steps currently made
9 necessary by the CLECs' own failures to be ready on the day of cut. We also described the
10 substantial benefits that CLECs will realize as a result of these improvements: they will be
11 able to migrate significantly larger volumes of UNE-P lines to stand-alone unbundled loops
12 at the same time, and during off-hours when their customers' lines are unlikely to be in use;
13 they will receive a fixed (and short) provisioning interval for these large-scale migrations
14 for the first time; they will have access to electronic tools that eliminate much of the need
15 for coordination and back-and-forth communication with Qwest; and in virtually all states
16 they will pay less for a qualifying hot cut than they do today.

17 In their testimony, the CLECs flat-out declare that all of this work is irrelevant, and that no
18 matter what improvements Qwest adopts *or even could adopt*, it will not be enough to
19 eliminate mass-market impairment. AT&T's witness says outright that there is *no possible*
20 batch hot cut process Qwest could employ - not even the very process envisioned by the

1 FCC - that AT&T would find sufficient.¹ AT&T therefore simply ignores the FCC's
2 instructions for this docket and instead advocates a pie-in-the-sky electronic loop
3 provisioning proposal that the *Triennial Review Order* and the ALJ explicitly rejected.
4 MCI likewise suggests that any batch hot cut process the Commission could adopt in
5 response to the FCC's instructions would simply be an interim "Transition" measure that
6 could not eliminate impairment until it is replaced by an electronic "Mass Market" process²
7 - again, notwithstanding the FCC's rejection of such a process. AT&T's and MCI's
8 insistence that there is *nothing* Qwest can do within the four corners of the *Triennial*
9 *Review Order* to eliminate impairment highlights that their real interest lies in preserving
10 UNE-P for as long as possible, not in developing a workable batch hot cut process, and
11 their evaluations of Qwest's proposed process should be understood accordingly.

12 With respect to the particular impasse issues arising from the Batch Hot Cut Forum, the list
13 started off narrow and has become even narrower. The CLECs have decided not to pursue
14 a number of impasse issues in testimony, and Qwest has agreed to remove others by
15 adopting the CLECs' suggestions. Still other impasse issues, related to particular OSS
16 changes that CLECs wanted, have become moot as a result of the normal operation of the
17 Change Management Process (which is where these issues belonged in the first place). As

¹ See Direct Testimony of Robert V. Falcone dated January 23, 2004 ("Falcone"), at 38:9-15; *Id.* at 59:12-15 ("Even the best manual processes that could be operationalized today, including batch migration processes, cannot satisfy the requirements needed to eliminate the CLECs' operational impairment in attempting to compete for mass-market customers."). On February 13, the ALJ struck the portion of the testimony containing these statements. See Order No. 10, *In the Matter of the Petition of Qwest Corporation To Initiate a Mass-Market Switching and Dedicated Transport Case Pursuant to the Triennial Review Order*, Docket No. UT-033044 (February 13, 2004).

² Direct Testimony of Sherry Lichtenberg and Tim Gates, dated January 23, 2004 ("Lichtenberg/Gates") at 12:304-13:326.

1 for the issues remaining at impasse, the CLECs have, for the most part, simply asserted
2 their positions without any evidentiary support at all. This testimony addresses each such
3 issue in turn.

4 **III. IMPASSE ISSUES**

5 **A. IMPASSE ISSUE P-3A (SCHEDULING BATCH HOT CUTS AT ANY**
6 **TIME OF THE DAY)**

7 **Q. PLEASE DESCRIBE ISSUE P-3A AGAIN.**

8 A. Qwest has proposed performing batch hot cuts from 3:00 AM to 11:00 AM, scheduling all
9 lifts and lays at the beginning of that window where possible, followed by the rewiring for
10 subsequent days' lifts and lays. Both the lifts and lays and the rewiring would be
11 sequenced according to their locations in the central office to enable central office
12 technicians to move as quickly and efficiently as possible. AT&T demanded that CLECs
13 be permitted to choose whatever timeslots they want for their migration, including times
14 outside the 3:00 AM to 11:00 AM window.³

15 **Q. DOES ANY OTHER CLEC ENDORSE AT&T'S REQUESTS?**

16 A. No.

17 **Q. IS IT POSSIBLE TO ADOPT AT&T'S SUGGESTION AND RETAIN THE**
18 **EFFICIENCIES OF THE BATCH HOT CUT PROCESS?**

³ Falcone at 26:4-11.

1 A. No. The time and cost savings from the proposed BHCP come from aggregating prewire
2 and migration work into larger batches and sequencing that work in a manner that
3 minimizes the technicians' movement throughout the central office. Allowing CLECs to
4 reserve particular timeslots for their lifts and lays would force a reordering of the central
5 office work, increase the time needed to perform the same set of tasks, and decrease the
6 volume of prewires and migrations that could be completed in a shift. Rather than
7 performing lifts and lays when it would be fastest and most efficient, the central office
8 technicians would be required to periodically drop whatever rewiring or other work they
9 are doing (or hold off on starting other work), log their progress, pick up the migration
10 instructions, and then move to a different location to start performing lifts and lays. Given
11 that up to four CLECs might be scheduling batch hot cuts on a given day, the potential for
12 repeated interruptions, and therefore losses of efficiencies, is enormous.

13 AT&T's request that it be allowed to schedule batch hot cuts outside the 3:00 AM to 11:00
14 AM window would only increase the inefficiencies further. If different CLECs' lifts and
15 lays could be spread throughout the twenty-four hour day rather than consolidated in the
16 beginning of a single window, there is the potential for large gaps between the different
17 batches of migration work, which could even extend beyond the length of the technicians'
18 shift. The inefficiencies and costs would mount as Qwest would be required to add shifts
19 of technicians and send them back and forth between different central offices to meet
20 CLEC scheduling demands or keep the technicians occupied between widely dispersed
21 cuts. AT&T's testimony completely ignores what changes in central office procedures
22 would be required to comply with its scheduling requests.

1 **Q. WHY DID QWEST PROPOSE THE 3:00 AM TO 11:00 AM WINDOW?**

2 A. Scheduling batch hot cuts during this window allows a dedicated team of technicians to
3 perform its migration work at a time when the overwhelming majority of business and
4 residential customers are asleep or not using their lines. The dedicated team can also work
5 during this time without interfering with the normal operations of the central office.

6 **Q. PLEASE COMMENT ON AT&T'S CLAIM THAT "SELECT CUSTOMERS" MAY**
7 **PREFER TO SCHEDULE CONVERSIONS OUTSIDE THIS WINDOW BECAUSE**
8 **OF THE OUTAGES ASSOCIATED WITH A HOT CUT.⁴**

9 A. It is a fact that the fewest number of telephone calls are made at 3:00 AM when most
10 people are asleep. As I stated in my opening testimony, I observed a number of migrations
11 using Qwest's hot cut process where the lifts and lays of the CLEC's customers began at
12 3:00 AM, and Qwest never encountered a line in use during those tests.⁵ AT&T's witness
13 provides no detail at all regarding who these "select" customers might be whose lines are
14 more active at 3:00 AM than during the business day, and provides no evidence about how
15 many there are.

16 The 3:00 AM start time is clearly ideal for the overwhelming majority of business and
17 residential customers. In fact, McLeod likes the idea of an off-hours cut so much for its
18 customers that it asks that it be permitted to schedule other kinds of non-batchable hot cuts

⁴ Falcone at 26:18.

⁵ Direct Testimony of Dennis Pappas and Lynn Notarianni dated January 23, 2004 ("Pappas/Notarianni") at 47:18-48:18.

1 during the same window.⁶ It does not make sense to design the entire process for the
2 “select” customers who may be an exception, and thereby incur all the inefficiencies
3 brought about by spreading cuts over a twenty-four hour window. AT&T always has the
4 option of scheduling a project-managed or coordinated hot cut under Qwest’s existing
5 provisioning options for these exceptional customers.

6 **Q. DO YOU HAVE ANYTHING ELSE TO ADD TO YOUR PREVIOUS**
7 **DESCRIPTION OF WHAT WILL TAKE PLACE DURING THE 3:00 AM TO 11:00**
8 **AM WINDOW?**

9 A. Yes. My direct testimony misdescribes what would happen if a CLEC encounters a line in
10 use at the time of the lift and lay.⁷ Instead of waiting for a period of time and then simply
11 disconnecting the call if it appears non-urgent, as I incorrectly suggested, Qwest’s existing
12 hot cut procedures for this situation would continue to apply. The central office technician
13 would monitor the busy line on three individual occasions, and, if the line was still in use
14 on the third try, would place the order into jeopardy status. The CLEC would be advised of
15 the jeopardy and would then be required to resolve the line-in-use situation. Qwest expects
16 this to be an infrequent occurrence in any event, since the lifts and lays would be taking
17 place starting at 3:00 AM, when most customers are asleep.

18 **B. IMPASSE ISSUE P-5 (LOOPS PROVISIONED OVER IDLC)**

19 **Q. PLEASE DESCRIBE IMPASSE ISSUE P-5 AGAIN.**

⁶ Direct Testimony of Patty Lynott dated January 23, 2004 (“Lynott”) at 204-207.

⁷ Pappas/Notarianni Direct at 58:9-60:16.

1 A. A batch hot cut process can achieve the efficiencies envisioned by the FCC only if it is
2 limited to migrations that can actually be “batched” or processed on a consolidated basis.
3 That is, migrations that involve the reuse of existing facilities and do not require the
4 dispatch of a technician to the field. UNE-P lines provided over IDLC cannot be included
5 in the batch hot cut process because the unbundling of each IDLC line requires a truck roll
6 to the field to determine what alternative facilities are available for the stand-alone
7 unbundled loop and to perform the cutover. Each IDLC line in an order might have to be
8 unbundled in a different way. CLECs may still continue to order and receive unbundled
9 loops that require field dispatches, including loops with IDLC, but they must use Qwest’s
10 existing provisioning options instead of the batch hot cut process.

11 AT&T, MCI and McLeod have all filed testimony demanding that IDLC loops be eligible
12 for the batch hot cut process.⁸

13 **Q. ISN’T THIS A REVERSAL OF AT&T’S POSITION AT THE BATCH HOT CUT**
14 **FORUM?**

15 A: Yes. Although AT&T witness Robert Falcone now insists that IDLC lines be included in
16 the batch hot cut process, his fellow AT&T representative John Finnegan conceded at the
17 Forum that such lines were not batchable. Mr. Finnegan agreed with Qwest “that the
18 process may not lend itself to doing batches of IDLC migrations when you’re going to the

⁸ See Falcone at 29:14-30:12; Gates/Lichtenberg at 15:368-378; and, Lynott at 6:26-28.

1 remote terminals in the field to do it.”⁹ Mr. Falcone participated in the Batch Hot Cut
2 Forum as well and should be aware of his colleague’s statements.

3 **Q. PLEASE EXPLAIN MORE ABOUT WHAT TYPES OF ORDERS ARE ELIGIBLE**
4 **FOR THE BATCH HOT CUT PROCESS AND WHY.**

5 A. The *Triennial Review Order* states that the entire purpose of adopting a batch hot cut
6 process is to capture the efficiencies that result from undertaking simultaneously the batch
7 cut activities for all lines affected by a given batch order.¹⁰ Qwest’s proposed batch hot cut
8 process therefore supports provisioning of lines that can be efficiently and inexpensively
9 completed in batches of multiple orders, not those that require individualized handling. To
10 be eligible for the BHCP, therefore, a migration order must involve the reuse of facilities
11 and must not involve an outside technician dispatch (as IDLC migrations *always* do)
12 because such a dispatch is by definition work that is specific to an individual order and that
13 cannot be efficiently performed with other orders. The orders that can be included in a
14 BHC are:

- 15 • Conversions from UNE-P to a stand-alone unbundled loop.
- 16 • Migration from one CLEC’s UNE-P to a different CLEC’s Loop, if the CLECs
17 coordinate and facilities are reused.
- 18 • CLEC-to-CLEC loop migrations, so long as the losing CLEC does not sabotage
19 the winning CLEC by holding on to the loop facilities to prevent their reuse. (If
20 the CLECs do not coordinate the disconnect and subsequent reuse, Qwest may
21 have to dispatch a technician to the field. MCI’s and AT&T’s suggestion that

⁹ Transcript of Batch Hot Cut Forum December 2, 2003 at 381:16-19.

¹⁰ *Triennial Review Order* ¶ 489.

1 Qwest will not include CLEC-to-CLEC migrations in the BHCP as a matter of
2 course is simply incorrect.)¹¹

- 3 • Conversions from resale to a stand-alone unbundled loop.
4 • Migrations from Qwest retail to a CLEC's stand-alone unbundled loop.

5 Also, a CLEC is able to combine any of these types of orders into a single BHC.

6 **Q. DO THE CLECS THAT INSIST ON INCLUDING IDLC LINES IN THE BATCH**
7 **HOT CUT PROCESS EXPLAIN HOW SUCH MIGRATIONS CAN BE**
8 **CONSOLIDATED, GIVEN THAT THEY REQUIRE INDIVIDUAL FIELD**
9 **DISPATCHES?**

10 A. No. They simply assert that IDLC lines must be included without explaining how this can
11 be done using the existing technology deployed in Qwest's network today (as opposed to
12 some non-existing theoretical electronic loop provisioning architecture discussed below).

13 **Q. THE CLECS SAY THAT OTHER RBOCS CONVERT UNE-P LOOPS**
14 **CURRENTLY WORKING OVER IDLC AS PART OF THEIR BATCH HOT CUT**
15 **PROCESS.¹² IS THIS CORRECT?**

16 A. To the extent other ILECs are saying they are including IDLC loops in their batch hot cut
17 processes, they are including them in name only. Even if IDLC loops are nominally within
18 the umbrella of the other ILECs' batch hot cut processes, they are always handled on
19 separate tracks than other migrations in the process, often at different hours and intervals
20 and usually at different prices. Both SBC and BellSouth, for example, impose additional

¹¹ See Lichtenberg/Gates at 43:1016-21; Falcone at 21:9-14.

¹² See Lynott at 10:197-201; Lichtenberg/Gates at 22:516-33.

1 non-recurring charges and restrictions on these IDLC migrations that result in IDLC loops
2 effectively being migrated on an individual rather than a consolidated basis, no matter what
3 label these carriers put on the process.

4 Verizon, much like Qwest, has found that by including IDLC, the nonrecurring charge for
5 the BHC option would have to increase in order to cover the cost of dispatching a
6 technician to field in order to perform the facility transfer. In fact, in Florida and
7 California, Verizon has submitted a cost study for an IDLC surcharge in order to cover the
8 cost of this additional work. In California, the proposed surcharge is \$150.49 for the first
9 loop and \$131.00 for each additional at the same location. In Florida, the surcharge is a flat
10 \$111.85 for each UNE-P over IDLC conversion.

11 **Q. GIVEN THAT QWEST WILL CONTINUE TO PROVISION LOOPS UTILIZING**
12 **IDLC TECHNOLOGY WITH THE EXISTING HOT CUT PROCESSES, WHAT**
13 **STRATEGY DO THE CLECS USE TO TRY TO MANUFACTURE AN**
14 **IMPAIRMENT?**

15 A. The CLECs argue that Qwest's IDLC has inherent problems that make use of the existing
16 provisioning processes risky. There is no basis for these statements. I will address each of
17 their questions below.

18 **Q. MCI STATES THAT LOOPS PROVISIONED OVER IDLC "FALL OUT" OF THE**
19 **NORMAL PROVISIONING PROCESS AND ARE PROVISIONED USING AN**

1 **“EXTREMELY EXPENSIVE AND TIME CONSUMING MANUAL PROCESS.”¹³**

2 **ARE THE ISSUES RAISED IN THIS TESTIMONY VALID?**

3 A. No. The provisioning process for IDLC is different than other analog loops; however, the
4 provisioning interval and associated costs using either the Basic or Coordinated installation
5 options are identical to all other analog loops. Qwest has also shown that it can
6 consistently provision such loops at a high degree of quality. For example, in the section
7 271 proceeding in Minnesota, in a wire center with a substantial percentage of IDLC lines,
8 Qwest demonstrated that it was able to consistently provision in excess of 97% of loops
9 over IDLC within standard intervals.¹⁴

10 **Q. MCLEOD STATES THAT CUSTOMERS ARE DOWN FOR UP TO FOUR HOURS**
11 **WHEN A CONVERSION FROM IDLC TO COPPER OR UDLC TAKES PLACE.¹⁵**
12 **PLEASE SHARE WITH THIS COMMISSION YOUR EXPERIENCE WHEN YOU**
13 **HAVE PERFORMED THESE TYPES OF CONVERSIONS.**

14 A. I have performed tasks such as this on multiple occasions. Let me explain what occurs
15 when a line is converted from one platform (IDLC) to another (copper or UDLC). At the
16 feeder distribution interface (“FDI”), the field technician tests the new feeder (F1) facility.
17 This test is intended to ensure that the new loop is acceptable between the FDI and the
18 serving central office; therefore, the technician will conduct a battery of tests to make this

¹³ Lichtenberg/Gates at 15:387-389.

¹⁴ *Commission Investigation into Qwest's Compliance with Section 271(c)(2)(B) of the Telecommunications Act of 1996*: Checklist Items 1, 2, 4, 5, 6, 11, 13 and 14; PUC Docket No. P-421/CI-01-1371; OAH Docket No. 7-2500-14486-2. Qwest Corporation's Post-Hearing Brief Regarding Compliance with Checklist Items 1, 2, 4, 5, 6, 11, 13 and 14 of the Telecommunications Act of 1996, page 152.

¹⁵ Lynott at 291-292.

1 determination. Upon concluding these tests, the technician will know that the facility is
2 acceptable and will call translations requesting that the order be worked. Just like any
3 other hot cut, the field technician will monitor the line to ensure that the end user is not
4 talking and then move the cross-connect jumper to the new F1 facility; the F2 pair going to
5 the end user is reused. By following this process, Qwest can ensure that the end user is
6 down for a minimal period of time. In most cases where I performed this work activity,
7 dial tone was already on the new F1 by the time I made it to the end user's location to test
8 at the network interface device. In my experience, the outage times proclaimed by McLeod
9 are certainly not commonplace.

10 **Q. MCI AND AT&T CLAIM THAT IDLC IS AN IMPAIRMENT IN AND OF**
11 **ITSELF.¹⁶ PLEASE COMMENT.**

12 A. MCI and AT&T are simply trying to lay the groundwork for Electronic Loop Provisioning
13 ("ELP"). The FCC and the ALJ presiding over this case has already held that ELP will not
14 be an issue for consideration in this docket.

15 **Q. AT&T ASSERTS THAT CLECS ARE IMPAIRED BY ILECS USING ENHANCED**
16 **LOOP TECHNOLOGY (IDLC).¹⁷ IS THIS TRUE?**

17 A. No. IDLC systems collect customers' loops and place them on a digital carrier system that
18 terminates directly on the ILEC local switch. It is not possible to isolate an individual
19 customer's loop in an IDLC system and transfer it to a CLEC. Contrary to AT&T's

¹⁶ See Lichtenberg/Gates at 19:452-69; Falcone at 29:14-30:10.

¹⁷ Falcone at 29:14-30:10.

1 assertion, when a CLEC signs up a customer that is served by such as system, Qwest will
2 transfer the customer's line either to a copper loop, or to a Universal Digital Loop Carrier
3 system ("UDLC") that allows the loop to be accessed at the main distribution frame and
4 transferred to the CLEC. While AT&T asserts these options are "technically inferior" to
5 IDLC,¹⁸ ILECs and Qwest serve millions of customers with copper and UDLC loops.

6 **Q. EVERYWHERE, MCI ARGUES THAT THERE IS THE POSSIBILITY FOR**
7 **ERRORS WHEN A QWEST TECHNICIAN PERFORMS A LINE AND STATION**
8 **TRANSFER ("LST") WHEN PROVISIONING A LOOP FORMERLY ON IDLC.¹⁹**
9 **PLEASE DESCRIBE HOW A TECHNICIAN PERFORMS AN LST?**

10 A. When a technician is dispatched to the field for a LST, one of the first tasks the technician
11 performs is testing the new facility – either the copper pair or the channel of the UDLC.
12 The testing performed is similar to the testing that occurs today in the Hot Cut process.
13 The field technician will not perform the conversion until any issue is resolved if the loop
14 the end user is being moved to tests defective. The resolution could include simply
15 requesting a new facility or finding the trouble and repairing it. Therefore any issue with
16 the facility the UNE-P IDLC end user is being moved to is addressed and resolved prior to
17 the field technician or the central office technician performing his or her work. Even if
18 some possibility for error theoretically exists, problems such as that described rarely occur
19 in the real world.

¹⁸ *Id.*

¹⁹ Direct Testimony of Mark L. Stacy regarding Operational Impairment dated December 22, 2003 at 46:894-898.

1 **Q. MCI CLAIMS THAT UDLC CONTRIBUTES TO MULTIPLE TRANSMISSION**
2 **PROBLEMS ASSOCIATED WITH UNE LOOPS.²⁰ IS THIS AN ISSUE FOR**
3 **QWEST?**

4 A. No. Telcordia addressed this exact issue in Section 12.13.3 of its “Notes on the Network,”
5 which states that when an unbundled copper loop greater than 900 ohms or 12,000 feet
6 long is terminated at the RT, the customer may encounter degraded voice frequency if
7 UDLC is not installed. Because of this issue, Qwest places a line card of greater ohms to
8 address this issue, a 1500-ohm card at the DLC for loops are greater than 900 ohms or
9 12,000 feet long. Thus, MCI’s concern is without merit.

10 **Q. MCI ALSO STATES THAT THE USE OF A UNE-LOOP STRATEGY INSTEAD**
11 **OF A UNE-P STRATEGY WILL DEGRADE THE XDSL SERVICE OVER THE**
12 **LINE. IS THIS TRUE?**

13 A. No, it is not. It is well known and understood that the bandwidth of an xDSL is dependent
14 on the characteristics of the loop such as its length.²¹ It does not depend upon which carrier
15 provides the switching. If the loop provides certain capabilities for Qwest, the same
16 capabilities exist for the CLEC as well.

17 **Q. DOES QWEST GUARANTEE DATA RATES TO END USERS ORDERING**
18 **VOICE SERVICES TODAY?**

²⁰ *Id.* at 45:864-870.

²¹ *Id.* at 45:871-46:886.

1 A. Qwest promises that the voice signal (300 – 3000 Hz) will support ringing voltage of
2 approximately 98 volts AC and talking battery of approximately 54 volts DC and will be
3 free of any service affecting troubles. In order for a Qwest end user to have a guarantee for
4 data rates, they would be required to have a qualified loop, and then order an appropriate
5 service such as DSL, 56Kbps, DSS or Basic rate ISDN. A CLEC would be required to do
6 the same.

7 **Q. FINALLY, MCI ARGUES THAT IDLC LOOPS ARE SO PREVALENT AS TO**
8 **RENDER ITS EXCLUSION FROM THE BHCP A FATAL FLAW.**
9 **SPECIFICALLY, MCI CITES A CENTRAL OFFICE IN WASHINGTON TO**
10 **HAVE 100% OF THE LOOPS PROVISIONED VIA IDLC. WHAT HAS YOUR**
11 **RESEARCH UNCOVERED?**

12 A. The wire center MCI uses to illustrate this point is in Aberdeen WA – ABRDWA01C9T –
13 which is really a tandem switch (hence the “T” on the end of the CLLI code). The
14 transport between the switch and the tandem were run via IDLC; however, the actual
15 percentage of IDLC in the office in question has an IDLC make-up of approximately 7% of
16 the total loops.²² Based on the information in the ICONN database, Qwest has a total of
17 2,487 loops (7%) working on IDLC and 6,911 (20%) working on UDLC in the Aberdeen
18 office.

19 **Q. MOREOVER, IS THE CENTRAL OFFICE EXAMPLE PROVIDED BY MCI A**
20 **CENTRAL OFFICE IN WHICH QWEST SEEKS RELIEF?**

²² The ICONN database is located at http://www.qwest.com/cgi-bin/iconn/iconn_centraloffice.pl?function=3.

1 A. It is not. Therefore, MCI's point is moot.

2 **Q. PLEASE SUMMARIZE YOUR REBUTTAL TESTIMONY ON WHETHER IDLC**
3 **LOOPS SHOULD BE INCLUDED IN THE BATCH HOT CUT PROCESS.**

4 A. The question is not whether CLECs will have access to such loops, but whether they will
5 be provisioned through the batch hot cut process or the existing provisioning options that
6 were reviewed and approved in connection with Qwest's section 271 application.
7 Including such loops in the batch hot cut process would eliminate efficiencies and
8 unnecessarily increase costs. The CLECs' real argument is that the existence of IDLC
9 shows that CLECs will be operationally impaired if forced to use any unbundling process.
10 However, the data shows that Qwest provisions such loops on a daily basis today, and does
11 so at a high level of quality. The concerns raised by the CLECs simply do not have any
12 basis in reality.

13 **C. IMPASSE ISSUES P-6(A) AND (B) (LINE-SPLIT LOOPS)**

14 **Q. PLEASE DESCRIBE IMPASSE ISSUES P-6(A) AND (B) AGAIN.**

15 A. Line splitting is an arrangement where one CLEC provides voice service and a second
16 CLEC provides DSL over a UNE-P purchased from Qwest. The impasse issue is whether
17 the proposed batch hot cut process can be used to convert an existing line-splitting
18 arrangement into a loop-splitting arrangement, in which the voice CLEC obtains a stand-
19 alone unbundled loop from Qwest and connects it to its own circuit switch, while arranging
20 for a second CLEC to provide DSL over the high-frequency portion of that loop. Because
21 these conversions are idiosyncratic and require additional work at different locations in the

1 central office from where ordinary hot cuts are taking place, line-splitting arrangements are
2 not “batchable” and are thus not eligible for conversion via the batch hot cut process.
3 (These arrangements can continue to be migrated via Qwest’s existing provisioning
4 options, however.)

5 MCI and Covad argue that line-splitting arrangements should be eligible for the batch hot
6 cut process. Covad’s batch hot cut testimony also calls for a number of changes to Qwest’s
7 OSS for *non-batch hot cut* conversions in order to implement the FCC’s line-splitting
8 mandates. As discussed below, these line-splitting OSS implementation questions are not
9 properly part of the nine-month cases at all; the *Triennial Review Order* expressly
10 committed these questions to the Change Management Process.

11 **Q. DOES COVAD CONCEDE THAT THE CONVERSION OF A LINE-SPLITTING**
12 **ARRANGEMENT REQUIRES ADDITIONAL WORK THAT IS NOT REQUIRED**
13 **WHEN CONVERTING AN ORDINARY UNE-P?**

14 A. Yes. Covad witness Michael Zulevic admits that Qwest must make at least one additional
15 cross-connect for each line-splitting arrangement and perform a separate data continuity
16 check on the circuit.²³ This actually understates the additional work required, as Mr.
17 Zulevic’s own network diagrams show. Mr. Zulevic’s diagrams presented as Batch Hot
18 Cut Exhibit 4 and attached hereto as Exhibit DP/LN-29, demonstrate that there are multiple
19 ways that line- and loop-splitting arrangements might be configured, and the central office
20 technicians could be required to add and remove as many as four cross-connects depending

²³ Direct Testimony of Michael Zulevic dated January 23, 2004 (“Zulevic”) at 16:23-26.

1 on the scenario. Moreover, as those same diagrams show, there is frequently additional
2 work during the actual migration: in some scenarios (examples 1, 2, and 4 in Mr. Zulevic's
3 diagram), there are in fact two different lifts and lays at two separate locations in the
4 central office (the COSMIC™ or MDF frame and the line splitter located in a common
5 area) instead of just one. Where the CLEC uses a Qwest-owned common line splitter, the
6 Qwest COTs would have to leave the COSMIC™ or MDF after the first lift and lay, travel
7 to the location of the common splitter for a second lift and lay, and then travel back to
8 COSMIC™ or MDF for the next order in the batch. A CLEC could avoid the need for a
9 second Qwest lift and lay if it maintained its own line splitter in its own collocation space
10 and performed the second lift and lay itself, but that would require additional coordination
11 between Qwest and the CLEC in the middle of a batch. In short, the extra prewiring, extra
12 lifts and lays, extra movement within the central office, and extra coordination that would
13 be required on individual conversions of line-splitting arrangements make these
14 conversions impossible to consolidate or sequence with other migrations and would destroy
15 the efficiencies that are the point of batching hot cuts in the first place.

16 **Q. DOES MCI DISPROVE THAT THE CONVERSION OF LINE-SPLITTING**
17 **ARRANGEMENTS REQUIRES ADDITIONAL WORK STEPS?**

18 A. No. MCI's *entire* testimony about what central office steps would be required to migrate a
19 line-splitting arrangement is as follows: "During the Batch Hot Cut Forum, Mr. Zulevic
20 from Covad explained to the parties how simple actual cut of [the] line split loop would

1 be.”²⁴ But the very diagrams from the Forum that MCI cites demonstrate that these cuts
2 would require additional work in additional locations that would not be required for an
3 ordinary hot cut.

4 **Q. COVAD SUGGESTS THAT THE FACT THAT LINE SPLITS CANNOT BE CUT**
5 **USING THE BHCP “ENSURES” CLECS WILL NOT BE ABLE TO MIGRATE**
6 **THEIR EXISTING CUSTOMERS OR WIN AND SERVE NEW CUSTOMERS**
7 **WITH LOOP-SPLITTING ARRANGEMENTS.²⁵ IS THIS RIGHT?**

8 A. Not at all. The fact that line-splitting arrangements require extra steps to migrate and are
9 so few and scattered may prevent them from being converted as part of the new batch
10 process, but they can continue to be converted using Qwest’s existing conversion options.
11 Qwest’s Migration and Conversion Overview procedural PCAT (provided at Exhibit
12 DP/LN-21 to our direct testimony) describes the various options that are available, and
13 there is a current provisioning option to cover every migration scenario that Covad
14 describes.

15 At the same time, I note that Covad agreed with Qwest at the Batch Hot Cut Forum that it
16 would not be possible in any event to include as part of the batch hot cut process
17 conversions where the CLEC wanted to add a new loop-splitting arrangement. A hot cut
18 including a new loop-splitting arrangement would require even more one-off, line-by-line
19 work than conversion of an existing line-splitting arrangement would, including additional

²⁴ Lichtenberg/Gates at 28:650-52.

²⁵ Zulevic at 9:23-10:5.

1 central office wiring, line tests, and field dispatches. Covad conceded at the Forum that
2 because of the additional one-off work required for a new loop-splitting arrangement
3 (including “quite a few cross connects . . . that would need to be made”), it would be
4 inappropriate to include such conversions as part of the batch hot cut process.²⁶

5 **Q. COVAD SUGGESTS THAT IF A CLEC CUTS A LINE-SPLITTING**
6 **ARRANGEMENT TO A STAND-ALONE UNBUNDLED LOOP, THE DATA**
7 **SERVICE “WILL BE TAKEN DOWN FOR AT LEAST A FEW DAYS.”²⁷ IS THIS**
8 **TRUE?**

9 A. No, and Covad should know better. On July 1, 2003, Covad submitted a CR to the Change
10 Management Process requesting that the outages (down-time) for conversions from a line
11 shared to line split loop to a UNE-L loop splitting arrangement be reduced.²⁸ During the
12 June 21, 2003, clarification meeting for this CR, John Berard of Covad stated that 45
13 minutes would be an acceptable period of downtime.²⁹ During the October 15, 2003, CMP
14 Product/Process Meeting, Qwest confirmed that it would meet Covad’s request of a
15 maximum of 45 minutes of downtime,³⁰ and Qwest modified its processes and procedures
16 accordingly. On October 7, 2003, Qwest updated its Loop Splitting, Line Splitting, and
17 Line Sharing/Shared Loop PCATs to include this accommodation. The Provisioning and

²⁶ Transcript of Batch Hot Cut Forum, December 2, 2003 at 443:9-444:19 (colloquy between Mr. Zulevic and Mr. Steese).

²⁷ Zulevic at 8:4-5.

²⁸ CMP CR PC070103-3.

²⁹ Qwest, Product Process CMP Meeting Distribution Package Jan. 21, 2004, page 85, at <http://www.qwest.com/wholesale/cmp/teammeetings.html>.

³⁰ *Id.*

1 Installation section of the Loop Splitting PCAT now states: “For Loop Splitting, the
2 Migration activities will not exceed forty five (45) minutes.”³¹ In addition, Qwest
3 communicated this PCAT update to the CLECs with a notification on October 6, 2003.³²

4 **Q. COVAD ASKS THAT QWEST BE ORDERED TO CHANGE ITS OSS TO PERMIT**
5 **CLECS TO ORDER A LINE-SPLITTING ARRANGEMENT WITH A SINGLE**
6 **LSR.³³ PLEASE RESPOND.**

7 A. This is an issue about Qwest’s general OSS that has nothing to do with the batch hot cut
8 process. It is also an issue that is beyond the scope of this docket: the *Triennial Review*
9 *Order* specifically directed carriers to raise these kinds of OSS-related line-splitting
10 implementation questions in the Change Management Process, not the already crowded
11 nine-month cases. Indeed, as Covad’s witness concedes,³⁴ the very OSS changes that
12 Covad asks for are already teed up as Change Requests in the CMP, and they are *already*
13 slated for implementation in April and October of this year. In other words, Covad’s
14 advocacy is moot.

15 **Q. PLEASE EXPLAIN WHY YOU SAY COVAD’S OSS REQUESTS ARE BEYOND**
16 **THE SCOPE OF THIS DOCKET.**

³¹ The Loop Splitting, Line Splitting, and Line Sharing/Shared Loop PCATs are available on the Qwest web site at <http://www.qwest.com/wholesale/pcat/loopsplitting.html>, <http://www.qwest.com/wholesale/pcat/linesplitting.html>, and <http://www.qwest.com/wholesale/pcat/linesharing.html>, respectively.

³² Notification number PROD.10.06.03.F.03570.PCATs_Update.

³³ Zulevic at 11:24-12:9.

³⁴ Zulevic at 18:1-18.

1 A. The 485-page *Triennial Review Order* discusses many topics in addition to the nine-month
2 batch hot cut and mass-market switching cases. An entirely different section of the *Order*
3 (the section on loops) expands the FCC's prior line-splitting mandate and discusses the
4 need for ILECs to update their OSS to implement that mandate.³⁵ But the FCC did not
5 make the implementation of line splitting a part of the nine-month mass-market switching
6 and batch hot cut cases, or even mention this subject in laying out the roadmap for these
7 state commission proceedings. On the contrary, the FCC expressly instructed carriers to
8 resolve line splitting implementation questions *outside* those cases: "[W]e encourage
9 incumbent LECs and competitors to use existing state commission collaboratives and
10 change management processes to address OSS modifications that are necessary to support
11 line splitting."³⁶ Even MCI acknowledges the *Triennial Review Order's* holding.³⁷

12 The OSS changes that Covad advocates are exactly the type of line-splitting
13 implementation matters that the FCC commits to the Change Management Process.
14 (Indeed, as discussed below, Covad's proposed OSS changes are *already* in the process of
15 being adopted through the CMP.) The ALJs presiding over the *TRO* dockets in Arizona
16 has already ruled that the "FCC's Triennial Review Order did not require line splitting to

³⁵ See *Triennial Review Order* ¶ 252.

³⁶ *Id.* The FCC defines "line splitting" as "the scenario where one competitive LEC provides narrowband voice service over the low frequency of a loop and a second competitive LEC provides xDSL service over the high frequency portion of that same loop." *Triennial Review Order* ¶ 251. The FCC thus uses the term to cover *both* what Qwest and Covad ordinarily call "line splitting" and "loop splitting."

³⁷ Lichtenberg/Gates at 26:619-21. Although MCI cites the *Triennial Review Order's* ruling, it disingenuously suggests that *this* is the collaborative the FCC had in mind. *Id.* MCI is ignoring the *Triennial Review Order's* specification of previously "*existing* collaboratives" such as the "change management processes" as that other forum. *Triennial Review Order* ¶ 252. Obviously, the FCC could not have predicted the creation of the Batch Hot Cut Forum at the time it drafted the *TRO*.

1 be addressed in the nine-month docket” and directed Covad not to raise the issue,³⁸ and the
2 ALJ recently granted Qwest’s motion to strike the testimony from Covad that addresses the
3 very same OSS issue that Mr. Zulevic addresses here.³⁹ Similarly, the ALJ presiding over
4 Oregon’s *TRO*’s cases, ruled that the OSS modifications were not properly a part of these
5 proceedings.⁴⁰

6 **Q. WHY DO YOU SAY THAT COVAD’S REQUEST FOR THESE OSS CHANGES IS**
7 **MOOT?**

8 A. All of the line-splitting OSS changes Covad requests were teed up as specific change
9 requests in the Change Management Process (where these issues belong), and they either
10 have been implemented already or are slated for implementation in April and/or October of
11 this year. Qwest has already added the capability for a CLEC to submit a single LSR for
12 new voice and data service for Resale Qwest DSL, UNE-P with Qwest DSL, and Line
13 Sharing products in IMA Release 13.0. Qwest will add single LSR capability for new
14 voice and data for Line Splitting and Loop Splitting in IMA Release 15.0, scheduled for
15 production on April 19, 2004.⁴¹ Upon implementation, a CLEC will be able to submit a
16 single LSR for new voice and data service for Line Splitting and Loop Splitting products.

³⁸ Procedural Order, *In the Matter of ILEC Unbundling Obligations as a Result of the Federal Triennial Review Order*, Docket No. T-00000A-03-0369, at 5-7 (Ariz. Corp. Comm’n filed Nov. 6, 2003).

³⁹ See Procedural Order, *In the Matter of ILEC Unbundling Obligations as a Result of the Federal Triennial Review Order*, Docket No. T-00000A-03-0369, at 3 (Ariz. Corp. Comm’n Feb. 10, 2004).

⁴⁰ See Ruling, *Matter of the Investigation To Determine, Pursuant to Order of the Federal Communications Commission, Whether Impairment Exists in Particular Markets if Local Circuit Switching For Mass Market Customers Is No Longer Available As An Unbundled Network Element*, Docket No. UM 1100, at 6 (Nov. 14, 2003).

⁴¹ CMP CR SCR030603-01.

1 Qwest submitted a CR to CMP for the last piece of the puzzle - single-LSR conversion for
2 existing arrangements with or without number portability - on December 3, 2003.⁴² The
3 CLEC community finished ranking all the proposed CRs for IMA Release 16.0 on
4 February 5, 2004, and ranked this CR second out of fifty. That ranking means that the last
5 of the OSS changes Covad wants will likely be implemented with the first 10,000 hours of
6 development work done on IMA Release 16.0. (Qwest has allocated 30,000 development
7 hours total to this release.)

8 IMA Release 16.0 is scheduled for release in October 2004. That means that if the CMP is
9 allowed to run its course, Covad will likely have the last of the line-splitting-related OSS
10 changes it advocates in place well before the December 2, 2004 date by which CLECs may
11 no longer obtain UNE-P in the event of a “no impairment” finding. The fact that the CMP
12 has already been able to care for Covad’s requests proves that the *Triennial Review Order*
13 correctly assigned questions like these to that process in the first place.

14 **D. IMPASSE ISSUE P-8 (CONVERSIONS REQUIRING AN INDIVIDUAL**
15 **FIELD DISPATCH)**

16 **Q. PLEASE DESCRIBE IMPASSE ISSUE P-8 AGAIN.**

17 A. Lines that require the dispatch of a technician to the field in order to process and complete
18 a conversion cannot be part of the batch hot cut process because their conversions cannot
19 be combined and consolidated with other migrations. The whole point of creating a batch

⁴² CMP CR SCR120303-01.

1 process, according to the *Triennial Review Order*, is to capture the efficiencies that result
2 when provisioning activities are “undertaken simultaneously for all lines affected by a
3 given batch order.”⁴³ By definition, a field dispatch cannot be performed for all loops in a
4 given batch simultaneously.

5 At the Batch Hot Cut Forum, Eschelon argued that conversions requiring field dispatches
6 should be included as part of the batch hot cut process, no matter how much individual
7 work was required on these lines. No other CLEC at the Forum adopted Eschelon’s
8 position. Eschelon has not, however, filed any batch hot cut testimony pursuing this issue.

9 **Q. DO ANY CLECS ADDRESS IMPASSE ISSUE P-8 IN THEIR TESTIMONY?**

10 A. Not directly. McLeod does suggest, however, that “Customers requesting new service at a
11 location where there are no facilities to reuse should also be included in” the batch hot cut
12 process, which asks for something similar.⁴⁴

13 **Q. CAN REQUESTS FOR NEW SERVICE WHERE THERE ARE NO FACILITIES**
14 **TO REUSE BE ACCOMMODATED AS PART OF THE BATCH HOT CUT**
15 **PROCESS?**

16 A. No. McLeod’s request is unreasonable for the very reason described above. Orders for
17 new service where facilities cannot be reused may require the dispatch of field technicians
18 to one or more locations to run new cross-connects or potentially even extend a new pair
19 within the buried service wire. The economies from “batching” are lost when some of the

⁴³ *Triennial Review Order* ¶ 489.

⁴⁴ Lynott at 4:65-7.

1 lines in the batch require individual truck rolls. McLeod does not explain how orders like
2 these requiring individual attention and separate dispatches can be included without losing
3 the efficiencies of consolidated handling; it simply asserts they should be.

4 **E. IMPASSE ISSUE P-10(D)(4) (LSR REQUIREMENT)**

5 **Q. PLEASE DESCRIBE IMPASSE ISSUE P-10(D)(4) AGAIN.**

6 A. Under the batch hot cut process, CLECs would submit LSRs just as they do for orders
7 today. While all the other CLECs at the Batch Hot Cut Forum accepted this requirement,
8 Eschelon suggested that Qwest should be required to accept orders submitted by
9 spreadsheet. However, Eschelon has not pursued this issue by filing batch hot cut
10 testimony or given any details of an alternative proposal.

11 **Q. DO ANY CLECS DISAGREE WITH QWEST'S POSITION IN THEIR**
12 **TESTIMONY?**

13 A. No, and this is not surprising. LSRs are the industry standard.

14 **F. IMPASSE ISSUE P-11 (ABILITY TO SPECIFY ORDER IN WHICH**
15 **LINES ARE CUT OVER)**

16 **Q. PLEASE DESCRIBE IMPASSE ISSUE P-11 AGAIN.**

17 A. As described above, many of the time and cost savings in the batch hot cut process come
18 from sequencing the lifts and lays in a batch by their locations on the central office frames
19 so as to minimize the technicians' movement throughout the central office. At the Batch
20 Hot Cut Forum, Eschelon demanded the right to specify the order in which the individual

1 lines in a batch would be cut over regardless of their location in the central office. No
2 other CLEC endorsed this position at the Forum. Eschelon has not filed batch hot cut
3 testimony pursuing this issue any further.

4 **Q. DO ANY CLECS DISAGREE WITH QWEST'S POSITION IN THEIR**
5 **TESTIMONY?**

6 A. No. This issue should be decided in favor of Qwest.

7 **G. IMPASSE ISSUE P-12 (PENDING CR FOR MIGRATION BY**
8 **TELEPHONE NUMBER AND STREET ADDRESS NUMBER)**

9 **Q. PLEASE DESCRIBE IMPASSE ISSUE P-12.**

10 A. MCI has submitted a CR to the Change Management Process seeking OSS modifications
11 as part of IMA Release 16.0 that will allow to CLECs to submit orders to migrate UNE-L
12 customers by submitting the customers' telephone number (TN) and street address number
13 (SANO).⁴⁵ This is a general systems change that has no specific connection to the batch
14 hot cut process and would apply to ordinary migrations and hot cuts as well.

15 Qwest has never opposed MCI's CR on the merits. However, MCI sought to have Qwest
16 agree at the Batch Hot Cut Forum that it would implement this CR regardless of how the
17 other CLECs prioritized it in the CMP voting. Qwest believed instead that the CMP should
18 run its normal course, since the voting of the CLEC community as part of the prioritization

⁴⁵ CMP CR SCR120403-01.

1 process yields the most accurate assessment of whether CLECs really want or need a
2 proposed OSS change.

3 **Q. HAVE THE CLECS NOW VOTED ON MCI'S CR?**

4 A. Yes, and hopefully this impasse issue is now moot. The CLECs finished their voting on all
5 the proposed CRs for IMA Release 16.0 on February 5, 2004, and it ranked MCI's CR
6 third out of fifty. That ranking means that MCI's OSS change will likely be implemented
7 with the first 10,000 hours of development work done on Release 16.0. That release is
8 scheduled for October 2004. That means that if the CMP is allowed to run its course, MCI
9 is virtually certain to have migration by TN and SANO in place well before the December
10 2, 2004 date by which it could no longer obtain UNE-P in the event of a "no impairment"
11 finding.

12 **H. IMPASSE ISSUE P-21(C) (ERRORS IN THE RLDT)**

13 **Q. PLEASE DESCRIBE IMPASSE ISSUE 21(C).**

14 A. At the Batch Hot Cut Forum, Eschelon expressed a concern that there could be errors in the
15 Raw Loop Data Tool ("RLDT") that CLECs use to determine the makeup of the loops they
16 wish to convert, and that as a result of these errors, a CLEC might unintentionally submit
17 an order as part of a batch for a loop that was ineligible for conversion as part of the batch
18 hot cut process (for example, one served over IDLC) and thereby jeopardize the status of
19 the batch. (Although Qwest asked Eschelon to provide specific examples of these errors,
20 Eschelon never did.) While Eschelon wanted some kind of mid-batch escalation process to
21 determine when the errors were the CLEC's fault and when they were Qwest's, Qwest

1 proposed a simpler “no fault” solution that was ultimately more beneficial to the CLECs:
2 as long as a batch started with at least 25 lines, Qwest would continue to process the batch
3 even if some of the lines later proved ineligible for conversion, just as long as at least 20
4 qualifying lines remained. This solution proved satisfactory to the other CLECs at the
5 Forum. Eschelon did not submit batch hot cut testimony to pursue this issue any further.

6 **Q. DO ANY CLECS DISAGREE WITH QWEST’S POSITION IN THEIR**
7 **TESTIMONY?**

8 A. No. This issue should be resolved in Qwest’s favor.

9 **I. IMPASSE ISSUES P-23 AND P-24 (STATUS TOOL AND CLEC**
10 **NOTIFICATION OF BATCH COMPLETION)**

11 **Q. PLEASE DESCRIBE IMPASSE ISSUES P-23 AND P-24.**

12 A. Qwest’s proposed batch hot cut process gives CLECs a choice of two options for receiving
13 notification that the cuts of their lines have commenced and completed. A CLEC may use
14 the existing functionality in its switch to “trap and trace” the line and detect the Qwest
15 COT’s pre- and post-cut ANI tests, thereby receiving instantaneous notifications of when
16 the migration is about to begin and when it is complete. Qwest has also proposed a web-
17 based Batch Status Tool (“BST”) that will query the Work Force Administrator database
18 (“WFA”) every 15 minutes and report completion information or changes in order status
19 information once the query completes, which typically takes up to another 15 minutes
20 depending on what other action in WFA is taking place. (The BST will also provide other
21 information such as the order status and the results of the lines’ dial tone checks on the

1 prewire date.) Qwest proposed the BST at the specific request of the CLECs at the Batch
2 Hot Cut Forum, who did not want to depend on receiving e-mails “pushed” from Qwest (as
3 Qwest had originally proposed) but instead wanted a central location where they could
4 access provisioning information.

5 The impasse issues vary by CLEC. MCI stated at the Forum that it supports the web-based
6 system proposal, particularly if it can use it in conjunction with Trap and Trace.⁴⁶

7 However, MCI asks that the BST guarantee updates at least every 10 to 15 minutes instead
8 of every 15 to 30.⁴⁷ AT&T disagrees with MCI and argues that any status tool that requires
9 AT&T to monitor a web site is too burdensome; instead, it wants Qwest to “push” the
10 information to it via e-mail or one of the OSS electronic interfaces.⁴⁸ McLeod also wants
11 the BST to be integrated into Qwest’s existing OSS interfaces.⁴⁹ As we discuss below, this
12 last impasse issue should go away, since Qwest has determined after further investigation
13 that it can implement BST through IMA.

14 **Q. HOW DO YOU RESPOND TO MCI’S CONCERNS?**

15 A. MCI’s entire argument consists of a two-line assertion that the BST should update every 10
16 to 15 minutes without any analysis of whether this is even technically possible, given the
17 way information is pulled from WFA. The BST is in the initial stages of development, and
18 its functionality may change as development proceeds. Qwest has already taken steps to

⁴⁶ See Exhibit DP/LN-2, Issue P-24.

⁴⁷ Lichtenberg/Gates at 30:692-98.

⁴⁸ Falcone at 28:2-6.

⁴⁹ Lynott at 140-42.

1 address MCI's concern by proposing to increase the frequency with which the BST queries
2 WFA to every 15 minutes, which is within the range recommended by MCI. Qwest's
3 current proposal reflects its best understanding of what is technically possible.⁵⁰ Qwest
4 notes that CLECs will be able to request further changes to the BST after it is implemented
5 via the Change Management Process ("CMP"), where the entire CLEC community will be
6 able to evaluate proposed changes and vote on whether they are worth undertaking.

7 **Q. WHAT IF A CLEC NEEDS NOTIFICATION INFORMATION FOR A**
8 **PARTICULAR CUSTOMER FASTER THAN THE BST CAN DELIVER IT?**

9 A. Given that lifts and lays will be taking place starting at 3:00 AM when customers are not
10 using their lines, Qwest expects that the BST's update intervals will prove sufficient for the
11 vast number of conversions. But if a CLEC believes that a faster notification is necessary
12 for particular migrations, it has the ability to receive *instantaneous* notification simply by
13 using the existing "trap and trace" functionality already resident in its switches. As noted
14 above and in our direct testimony, MCI, AT&T, and McLeod have all stated that "trap and
15 trace" is likely a workable option for them.⁵¹

⁵⁰ WFA is a major Qwest provisioning system that is frequently accessed and updated by Qwest personnel and systems. While queries such as the one Qwest is proposing are time consuming, given the current development stage and system workload, a 15 minute query-time currently appears feasible. Qwest will, however, continue to develop this functionality with the goal of the shortest query time practicable.

⁵¹ See, e.g., e-mail from John F. Finnegan, AT&T, to Carolyn Hammack, Qwest (Jan. 21, 2004) (reporting that AT&T was still considering trap and tract but "believe[s] it had some potential to work"); e-mail from Patty C. Lynott, McLeod, to Carolyn Hammack, Qwest (Jan. 21, 2004) ("reporting that McLeod "believes this could be a viable option") (cited in: Pappas/Notarianni at 63:18-64:2).

1 **Q. PLEASE RESPOND TO AT&T’S CONCERN THAT MONITORING THE BST**
2 **REQUIRES TOO MUCH WORK ON THE CLEC’S PART.**

3 A. First, the other CLECs simply do not agree. MCI repeatedly cites Qwest’s development of
4 the BST favorably as an example of where “Qwest appears to have made movement in the
5 right direction by listening to the concerns of the CLECs and including some recommended
6 features.”⁵²

7 Second, AT&T itself has flipped back and forth on the question of what kind of notification
8 - a push solution like e-mail or a pull solution like the BST - it would find sufficient. At
9 the Batch Hot Cut Forum, Qwest originally proposed notification via e-mail, and AT&T
10 vigorously objected, asking Qwest instead to develop a “systematic solution” by which
11 “Qwest doesn’t have to manually create an e-mail to send to us every 30 minutes, and
12 CLECs don’t have to deal with this e-mail in a manual fashion.”⁵³ Qwest created just such
13 a “systematic solution” - the BST - at AT&T’s and other CLECs’ request. Now, AT&T
14 complains that it “will have to constantly review the web-based tool to confirm order
15 completion.”⁵⁴ AT&T does not explain why it is so much more burdensome for it to
16 refresh a status page on a website than to monitor an e-mail inbox for a message or wait for
17 some other kind of electronic notification. Nor does AT&T account for the fact that a tool
18 like the BST provides CLECs with a greater ability to sort information and automate its
19 processing of the posted data (via a screen scrape or download of the web information)

⁵² Lichtenberg/Gates at 13:333-37.

⁵³ Transcript of Batch Hot Cut Forum, December 3, 2003 at 534:1-11 (Finnegan, AT&T).

⁵⁴ Falcone at 28:4-5.

1 than an order-specific e-mail message could. The fact that other CLECs have affirmatively
2 *endorsed* Qwest's BST proposal should make clear that AT&T's purported concerns are
3 overstated.

4 **Q. PLEASE RESPOND TO AT&T'S AND MCLEOD'S SUGGESTION THAT THE**
5 **BST BE INTEGRATED INTO IMA EDI AND IMA GUI.**

6 A. Qwest is at the initial stages of developing the BST, and the contours of the BST are
7 continuing (and will continue) to develop. Qwest now believes it can implement the
8 changes AT&T (and McLeod) want, which should eliminate this as an impasse issue.
9 After the Batch Hot Cut Forum, Qwest further investigated using both CEMR and IMA as
10 platforms for the BST. While initial results, as discussed in our direct testimony, indicated
11 that CEMR was the most feasible platform, subsequent investigations revealed that
12 implementation through IMA (EDI and GUI) was also technically possible. Qwest now
13 agrees to implement the BST through IMA. As a result, Qwest has included this
14 information in the two CRs it submitted to CMP and will discuss its proposed
15 implementation solution further when it presents these CRs to the CMP community on
16 February 19, 2004. This issue is accordingly no longer at impasse.

17 **J. IMPASSE ISSUE P-27(C) (LEVEL OF MECHANIZATION)**

18 **Q. PLEASE DESCRIBE IMPASSE ISSUE P-27(C) AGAIN.**

19 A. As the FCC recognized, a hot cut is an inherently manual process requiring a physical "lift"
20 of a line from a Qwest frame and a "lay" of that facility onto a CLEC frame. The *Triennial*
21 *Review Order* directs incumbent LECs to adopt batch hot cut processes that realize

1 efficiencies and cost savings from consolidating large numbers of hot cuts; however, the
2 batch process the FCC contemplated would still have the manual hot cut at its core.

3 In direct contradiction to the FCC's instruction, AT&T and MCI have both proposed forms
4 of electronic loop provisioning that would require Qwest to spend billions of dollars on
5 replacing its plant to avoid the manual hot cut. The FCC specifically rejected such
6 proposals, and this Commission has as well.

7 **1. Electronic Loop Provisioning ("ELP")**

8 **Q. HAS THIS COMMISSION ALREADY REJECTED AT&T'S ELECTRONIC LOOP**
9 **PROVISIONING PROPOSAL?**

10 A. Yes. AT&T's witness originally spent over a third of his testimony rehashing an electronic
11 loop provisioning proposal that AT&T had originally presented to the FCC, and the FCC
12 specifically "decline[d] to require"⁵⁵ in the *Triennial Review Order* on the ground that it
13 was not "currently feasible."⁵⁶ The ALJ agreed that it was inappropriate for AT&T to
14 present this proposal again here and struck the relevant portions of AT&T's testimony from
15 the record on February 13, 2004.⁵⁷

⁵⁵ *Triennial Review Order* ¶ 491.

⁵⁶ *Id.* at ¶ 488 n. 1517.

⁵⁷ Order No. 10, *Petition of Qwest Corporation To Initiate a Mass-Market Switching and Dedicated Transport Case Pursuant to the Triennial Review Order*, Docket No. UT-033044 (Feb. 13, 2004).

1 **Q. MCI HAS ADVOCATED A GR-303 LOOP UNBUNDLING PROPOSAL.⁵⁸ IS THIS**
2 **DIFFERENT FROM AT&T'S ELP PROPOSAL IN ANY RELEVANT RESPECT?**

3 A. No. MCI's GR-303 proposal is just another way to request that the Commission require
4 Qwest to deploy a form of ELP throughout its network. Like AT&T's ELP proposal,
5 MCI's proposal would require Qwest to spend billions of dollars to replace and upgrade its
6 network across its region. And MCI's proposal is no more technically feasible. Exhibit
7 DP/LN-28 attached to our direct testimony discusses the technical issues of GR-303 in
8 much greater detail.

9 **Q. EVEN ASSUMING MCI'S FORM OF ELP COULD BE DEPLOYED, ARE THERE**
10 **TECHNICAL AND PRACTICAL LIMITATIONS TO MCI'S PROPOSAL?**

11 A. Yes. Qwest does not use GR-303 for unbundling because the architecture is not scalable
12 beyond certain limits; the architecture does not have the capacity to handle the universe of
13 CLECs and their activity. The original GR-303 standard assumed 8 interface groups
14 maximum. However, no vendor that I am aware of has met this number. The Litespan
15 system, for example, has only 4 virtual interface groups ("VIGs"), meaning that it could
16 provide unbundled loops to only four CLECs at a time at most. Qwest simply cannot offer
17 unbundling to some CLECs and not others. Thus, this architecture is not a viable option.

18 Moreover, MCI does not take into account that IDLC unbundling using GR-303 requires a
19 single DS-1 handoff from the CO multiplexer directly to the CLEC collocation. MCI
20 incorrectly assumes that by implementing a replacement network of GR-303, Qwest would

⁵⁸ Stacy at 50:960-53:1027.

1 be able to provide unbundling for all CLECs. MCI does not disclose that this would only
2 be an alternative for those CLECs having a “critical mass” of subscribers served by the
3 remote terminal, *i.e.*, 24 subscribers to a virtual interface group (“VIG”). Not all CLECs
4 would have 24 subscribers out of a remote terminal. It appears that MCI is suggesting an
5 architecture that assumes a “one size fits all” scenario.

6 **Q. HOW MUCH WOULD MCI’S PROPOSAL COST TO IMPLEMENT?**

7 A. I do not have a precise figure, but the amount is certainly enormous. The number of
8 Remote Terminals (“RT”) on more than 22,400 locations across Qwest’s region would
9 need to be changed out. At a conservative estimate of \$150,000 per location just for the
10 replacement of the RTs,⁵⁹ Qwest would be looking at a capital investment in excess of \$3
11 billion dollars. This amount increases when considering those locations where the existing
12 UDLC is fed by copper facilities, since those facilities would have to be replaced with fiber
13 facilities.

14 **Q. WILL A GR-303 ARCHITECTURE DECREASE THE NEED FOR TECHNICIAN**
15 **DISPATCH AND ALLOW ELECTRONIC PROVISION AS SUGGESTED BY**
16 **MCI?**

17 A. No. Even if a CLEC has a VIG assigned to it, the EMSs associated with these systems are
18 not yet partitionable. In other words, the “brains” of the system are static and cannot
19 handle multiple users. There are no vendors that I am aware of that provide a multi-carrier,

⁵⁹ This includes only the capital cost of electronics at the RT and other costs associated with the placement of the new RT.

1 partitionable EMS. Moreover, in this architecture, the fiber between the central office and
2 the RT must be multiplexed from optical to electrical and then on to the DS1 level. This is
3 ultimately the same thing as DS1 to DS0 “grooming.” Both architectures require
4 electronics to hand it off at the DS1 or DS0 level. Therefore, Qwest may still have to have
5 to dispatch a technician to the field to unbundle loops and incur the labor cost associated
6 with making the cross-connects at the RT on the CLEC’s behalf.

7 **Q. PLEASE SUMMARIZE YOUR TESTIMONY ON AT&T’S AND MCI’S ELP**
8 **PROPOSALS.**

9 A. MCI’s ELP proposal is fatally flawed. It is an unproven technology that would cost
10 billions of dollars to implement, even if it proved workable. There is no need to deploy
11 this ridiculous proposal because Qwest has developed a process for batch hot cuts that
12 works, and works well. Moreover, the FCC has specifically rejected the concept of ELP at
13 this point in time.

14 **2. Automatic Distribution Frames (“ADF”) or Robotic Frames**

15 **Q. MCI SUGGESTS THAT ROBOTIC FRAMES REPRESENT THE STATE OF THE**
16 **ART.⁶⁰ SINCE MCI IS BUILDING ITS NETWORK FROM SCRATCH,**
17 **PRESUMABLY IT USES STATE OF THE ART TECHNOLOGY. HAS MCI OR**
18 **ANY OTHER CLEC DEPLOYED THIS TYPE TECHNOLOGY IN THEIR**
19 **NETWORKS?**

⁶⁰ Lichtenberg/Gates at 32:761-33:774.

1 A. In the hundreds of collocations I have observed, both new and existing, I have not seen and
2 am not aware of any CLEC that has deployed a robotic frame or ADF as part of their
3 interconnection architecture. It is ironic that a company claiming to be building a network
4 from the ground up would not implement the same type of equipment it asks the
5 Commission to order Qwest to provide.

6 **Q. PLEASE COMMENT ON MCI'S EXCERPT FROM THE TESTIMONY OF**
7 **THOMAS MAGUIRE AND OTHER VERIZON WITNESSES IN THE STATE OF**
8 **NEW YORK PUBLIC SERVICE COMMISSION, CASE NO. 02-C-1425,**
9 **HEARING.**⁶¹

10 A. While Verizon's testimony suggests that Verizon may be using ADFs on a very small,
11 experimental scale, it does not demonstrate that ADFs are a viable application in central
12 offices with large line counts.⁶² In fact, the Verizon witnesses repeatedly emphasize that
13 these deployments are in "small" and "very small" offices.⁶³ Maguire also notes that ADFs
14 do not exist in any office where collocation is currently placed and that ADFs have never
15 been used as an application for hot cuts.⁶⁴ Thus, this testimony does not establish anything
16 with respect to whether robotic frames could be used in place of manual hot cuts in real-
17 world locations to transfer loops to collocating CLECs at commercial volumes.

⁶¹ Lichtenberg/Gates at 34:794-35:860.

⁶² *Id.*

⁶³ *Id.* at 35:822, 842.

⁶⁴ *Id.* at 35:856-60.

1 Our direct testimony provides additional information concerning Qwest's own experience
2 with robotic frames and explains why MCI's proposal is not technically feasible.

3 **K. IMPASSE ISSUE P-29 (INTEGRATION WITH CMP)**

4 **Q. PLEASE DESCRIBE IMPASSE ISSUE P-29 AGAIN.**

5 A. As explained in our opening testimony, Qwest and the CLECs collaboratively designed the
6 Change Management Process ("CMP") as a forum for the CLEC community to propose
7 and deliberate over various changes to Qwest's OSS, prioritize those changes according to
8 their importance to the CLECs, and integrate those changes with additional ones that may
9 be required by new regulatory mandates. The point of the CMP is to take the finite amount
10 of resources that Qwest is able to spend on OSS revisions at any given time and rank the
11 various proposed changes in order of priority, so that those finite resources can be
12 expended on those projects that are required by law and most important to the CLEC
13 community as a whole. The CMP was approved as part of the section 271 process.

14 Qwest plans to use the CMP exactly as it was intended and bring the BHCP-related OSS
15 through the CMP as regulatory mandates so they can be slotted in upcoming IMA releases
16 according to the agreed-on rules for the process. To that end, Qwest has already submitted
17 two CRs (SCR012203-01RG and SCR012203-02RG) to CMP for the OSS interface
18 changes necessary to implement Qwest's proposed batch hot cut process.

19 MCI and Covad make a number of arguments in their testimony that all have the aim of
20 end-running the previously agreed upon ground rules of the CMP in order to influence the

1 outcomes. MCI argues that any OSS changes required by the *Triennial Review Order*
2 should be given a special status above that of a normal regulatory mandate, and that Qwest
3 should be required to issue a special additional IMA release outside the normal schedule
4 dedicated just to these changes.⁶⁵ Covad similarly suggests that Qwest should be forced to
5 spend “a separate pot” of time and money just on implementing *Triennial Review Order*
6 changes so as not to crowd out non-*TRO* changes.⁶⁶ (In addition, as noted above, MCI and
7 Covad both try to demand special treatment for the particular CRs they favor - migration
8 by TN and SANO in MCI’s case, and single-LSR orders for line splitting in Covad’s. This
9 last argument is addressed above in connection with Impasse Issues P-6 and P-12
10 respectively.)

11 **Q. IS THIS THE APPROPRIATE PLACE TO START CHANGING THE GROUND**
12 **RULES OF THE CMP?**

13 A. No. As explained in our direct testimony, the CLECs and Qwest collaboratively designed
14 the CMP with exactly the present situation in mind. They created a special category in the
15 CMP Document for OSS modifications that are mandated by regulatory changes
16 (“Regulatory CRs”), and provided that such CRs would go “above the line” and be the first
17 changes worked on in the releases to which they were assigned. The *Triennial Review*
18 *Order* may be large, but for purposes of the CMP it is fundamentally no different than any
19 other regulatory order requiring some OSS changes. Far from suggesting that the *Triennial*
20 *Review Order* is some kind of unique super-mandate that trumps all the ILECs’ existing

⁶⁵ Lichtenberg/Gates at 37:896-903.

⁶⁶ Zulevic at 20:5-9.

1 change management processes, the FCC expressly endorses and relies on those existing
2 processes, explicitly assigning many of the tasks of implementing its OSS mandates to the
3 incumbents' existing CMPs. *See, e.g., Triennial Review Order* at ¶ 252 (“encourag[ing]
4 incumbent LECs and competitors to use existing state commission collaboratives and
5 change management processes to address OSS modifications that are necessary to support
6 line splitting”).

7 Qwest's CMP has already been approved by this Commission and the FCC as the sole
8 avenue for Qwest and the CLECs to modify Qwest's OSS interfaces. It is inappropriate to
9 expect the Commission to order an exception to the process that it already approved, when
10 the collaborating authors of the CMP clearly anticipated situations like the *Triennial*
11 *Review Order* and designed the process to manage the resulting changes.

12 **Q. PLEASE COMMENT ON MCI'S SUGGESTION THAT QWEST BE REQUIRED**
13 **TO ISSUE A SEPARATE, OUT-OF-SCHEDULE IMA RELEASE TO ENSURE**
14 **THAT ALL BATCH HOT CUT RELATED CRS ARE IMPLEMENTED ON TIME?**

15 A. There is simply no need to do this. Those BHCP-related CRs that the CLECs agree are
16 regulatory CLECs will go to the head of the queue and be included in IMA Release 16.0,
17 which has a current release production date of October 18, 2004. Even those particular
18 CRs that are not officially Regulatory Mandates but that Covad and MCI insist are essential
19 to the batch hot cut process (such as migration by TN and SANO) have been prioritized
20 sufficiently high in the just-completed CLEC voting - 2 and 3 out of 50 - that they are all
21 but certain to go into Release 16.0 as well. All of the OSS interface changes CLECs argue

1 they need will be implemented by October 18, 2004 - well before the December 2, 2004
2 date after which CLECs could not purchase unbundled switching in the event of a “no
3 impairment finding.”

4 In addition, MCI’s blithe suggestion that Qwest should add on an extra, out-of-schedule
5 IMA release is impractical and unrealistic. A separate new release would impact the
6 currently scheduled releases significantly. This is not a situation where new personnel can
7 come in and immediately be up to speed. Qwest’s OSS interfaces are detailed and
8 complex, and they offer an extremely high level of ordering efficiency and mechanization.
9 Qwest employs a staff of systems analysts and developers who are each familiar with the
10 intricacies of Qwest’s systems. Their time is fully occupied by the task of preparing the
11 next IMA release. As soon as the CLEC community prioritizes a release (as the CLECs
12 just did for IMA Release 16.0 at the beginning of February), these personnel begin the
13 process necessary to implement the release as scheduled. If the Commission were to order
14 an additional release, some of Qwest’s analysis and development resources currently
15 involved on development for the “old” release would necessarily have to be devoted to the
16 new release, reducing the size and effectiveness of the “old” release team.

17 **Q. PLEASE COMMENT ON COVAD’S WORRY THAT THE *TRO*-RELATED OSS**
18 **CHANGES WILL SQUEEZE NON-*TRO*-RELATED CHANGES OFF THE LIST**
19 **FOR RELEASES 15.0 AND 16.0?**

20 A. Covad’s concern is overstated. Qwest has already committed to the CRs it will include in
21 IMA Release 15.0, and nothing ordered in response to the *Triennial Review Order* will go

1 into that release (or take up the 40,000 developer hours Qwest is dedicating to it). With
2 respect to Release 16.0, Qwest estimates it will take 6,000 to 10,000 of the 30,000
3 developer hours dedicated to that release to implement the BHCP-related IMA changes
4 Qwest is proposing, leaving an additional 20,000 to 24,000 hours for non-BHCP-related,
5 prioritized systems changes. Hence, Covad's suggestion that Qwest be ordered to create a
6 separate additional pot of developer hours for *TRO* changes is unnecessary.

7 **L. IMPASSE ISSUES SC-1 AND SC-5 (SCALABILITY AND VOLUMES)**

8 **Q. PLEASE DESCRIBE IMPASSE ISSUES SC-1 AND SC-5 AGAIN.**

9 A. These impasse issues relate to Qwest's ability to manage the anticipated volumes of batch
10 hot cuts. Without making any attempt to predict or provide any specific evidence
11 regarding what expected conversion volumes will even be, several CLECs argue that
12 Qwest cannot meet these demands. This is not true. As Ms. Terri Million shows in her
13 rebuttal testimony, even in the worst case scenario, Qwest would have no difficulty
14 meeting the anticipated volumes with batches of the size contemplated in the process. In
15 addition, Ms. Lorraine Barrick, an independent auditor has reviewed Qwest's batch hot cut
16 process and performance data and concludes that Qwest's proposed process would in fact
17 be scalable. Ms. Million's and Ms. Barrick's rebuttal testimonies explain the bases of their
18 conclusions in more detail.

19 **Q. MCLEOD CONTENDS THAT THE OSS ASPECTS OF QWEST'S BATCH HOT**

1 **CUT PROCESS ARE NOT SCALABLE.⁶⁷ IS THIS CORRECT?**

2 A. No. Qwest's proposed batch hot cut process relies on the same OSS approved by this
3 Commission and the FCC during the section 271 approval process. During the section 271
4 approval process, Qwest's OSS was thoroughly tested for both capacity and scalability.⁶⁸
5 This test measured Qwest's system capacity for processing pre-ordering queries and order
6 transactions as well as verifying Qwest's ability to handle reasonably foreseeable future
7 demands. The test results demonstrated that Qwest OSS is scalable and capable of
8 handling increased volumes of unbundled loop migrations, and both this Commission and
9 the FCC declared that Qwest's OSS are adequate based on these test results.

10 **Q. MCLEOD ALLEGES THAT QWEST HAS DENIED REQUESTS FOR CERTAIN**
11 **ORDERS FOR BATCHES OF HOT CUTS IN THE PAST DUE TO "RESOURCE**
12 **CONSTRAINTS."⁶⁹ PLEASE COMMENT ON THIS CLAIM.**

13 A. McLeod does not give any details regarding its allegations, so Qwest cannot identify or
14 respond to the particular events McLeod alleged. But Qwest's records indicate that on
15 seven different occasions in the fourth quarter of 2002 that Qwest converted 100 lines or
16 more within a single central office on a single day for McLeod. Furthermore, between

⁶⁷ Lynott at 104-39.

⁶⁸ The tests were conducted by KPMG. The final test report can be found in the record of this state's section 271 proceeding. *See In the Matter of the Investigation Into U S West Communications, Inc.'s Compliance With Section 271 of the Telecommunications Act of 1996*, Docket No. 003022, Before the Washington Utilities and Transportation Commission, Exhibit 1697 - Qwest Communications OSS Evaluation, Final Report, Version 2.0, KPMG Consulting, 5/28/02 placed on the record June 5, 2002 ("KPMG Final Report"). Table 15-6, page 252, shows that Qwest satisfied all evaluation criteria for this test.

⁶⁹ Lynott at 114-15.

1 October 2002 and December 2003, Qwest processed more than 80 orders per day in a
2 single central office a total of 35 times.

3 In an effort to allocate central office resources in an efficient manner, Qwest and McLeod
4 have been negotiating conversion volumes for the past 18 months. During those
5 negotiations, McLeod would come to Qwest with requests for conversions on an office-by-
6 office basis and Qwest would work with the CO staff to understand their pending loads in
7 an attempt to load balance for the central office technicians. As McLeod recognizes, this
8 has allowed Qwest to convert approximately 99,000 UNE-P lines to stand-alone unbundled
9 loops over the past 18 months while still maintaining its normal daily workloads.

10 Moreover, this was all done without an increase in staffing. Qwest's capacity to perform
11 large quantities of migrations will only increase even further once Qwest adds the
12 dedicated teams of technicians and the additional working hours that the batch hot cut
13 process contemplates. Data for McLeod individually and CLECs generally show that
14 Qwest has continually provisioned unbundled loops at an outstanding level of quality
15 today, and give comfort about Qwest's ability to continue doing so going forward.

16 **Q. MCI STATES THAT QWEST IS LIMITING BATCH SIZES TO 100 PER**
17 **CENTRAL OFFICE PER DAY BECAUSE QWEST HAS NO PLANS TO**
18 **INCREASE HEADCOUNT.⁷⁰ IS THIS ACCURATE?**

19 **A.** No. The chart on page 143 of my direct testimony contains the staffing estimates based on
20 the worst case scenario of having to convert 100% of the UNE-P market. As you can see

⁷⁰ Lichtenberg/Gates at 40:968-41:981.

1 from the chart, Qwest would have to add resources in the QCCC, Service Delivery
2 organization and of course, in the CO within the Local Network organization. It has been
3 the expectation of the batch hot cut process development teams all along once a state
4 commission makes a finding of “no impairment” in a given market, Qwest will begin
5 staffing and training the teams as necessary. The limit of 100 per day per office has
6 nothing to do with any resistance to staff up to the level required: it is simply all that is
7 needed to handle the expected migration and churn volumes, even in the worst of all
8 possible worst-case scenarios, as Ms. Million explains. (This 100 per central office per day
9 maximum is discussed in greater detail in the next section.)

10 **Q. DOES MCI ADMIT THAT THE QCCC WILL BE ABLE TO HANDLE THE**
11 **EXPECTED MIGRATION VOLUMES?**

12 A. Yes. MCI even admits that the QCCC will be able to handle the volumes and “does not
13 appear to be a limiting factor.”⁷¹

14 **Q. HAS QWEST BEEN ABLE TO HANDLE BATCHES OF UP TO 100 ORDERS FOR**
15 **UNE-P CONVERSION IN A SINGLE CENTRAL OFFICE IN THE PAST?**

16 A. On numerous occasions in 2002 and 2003, Qwest worked between 85-120 conversion
17 orders in a CO in a single day. As McLeod admitted, Qwest has converted over 99,000
18 UNE-P lines at a very high level of quality in the last 18 months.

19 **Q. WHAT PROOF DOES QWEST HAVE THAT IT CAN STAFF UP AND**

⁷¹ See Lichtenberg/Gates at 42 n. 23.

1 **REALLOCATE RESOURCES IN THIS MANNER?**

2 A. First, as I explained in my direct testimony, Qwest did this on a very large scale when it
3 created the QCCC from scratch in a short time to improve loop provisioning performance.
4 In addition, Qwest can move resources from one area to another to handle sudden spikes in
5 demand for technician support. Reallocation of resources is not a new concept to Qwest.
6 For situations such as the rush at the annual beginning of college in college communities,
7 for example, Qwest routinely shifts resources to address the increase in order activity prior
8 to and immediately after the semesters begin. The same resource shifting occurs as a result
9 of weather or fire emergencies. In fact, I was sent to Cheyenne, Wyoming in the early
10 1980's to work for weeks after a flood hit the city causing damage to Qwest's outside plant
11 facilities. This is not an uncommon phenomenon: even CLECs surely shift resources or
12 contract for additional technicians in those particular markets where they have marketing
13 blitzes. Qwest's consistently high loop provisioning performance data should provide the
14 Commission with great comfort that this resource issue is a red herring.

15 **M. IMPASSE ISSUE V-2 (MAXIMUM SIZE OF A BATCH)**

16 **Q. PLEASE DESCRIBE IMPASSE ISSUE V-2 AGAIN.**

17 A. A maximum of 100 CLEC lines in a given central office per day can be scheduled for a
18 batch hot cut during the 3:00 AM to 11:00 AM window. This 100 per central office per
19 day through the batch process is *in addition to* whatever other hot cuts CLECs schedule for
20 that day during normal business hours through Qwest's current provisioning options.

1 MCI flatly asserts that the maximum should be 200 lines per central office per day, but
2 gives no explanation how it calculated this number or why it thinks that this would be
3 achievable in terms of central-office staffing and operations.⁷² AT&T and McLeod simply
4 say that 100 per day is too low without specifying or justifying any alternative maximum.⁷³
5 AT&T asserts that Qwest should add a second shift of central office technicians to perform
6 batch hot cuts.⁷⁴

7 **Q. WHY DID QWEST PROPOSE THE 100 DAILY MAXIMUM PER CENTRAL**
8 **OFFICE?**

9 A. As discussed above in connection with Impasse Issue P-3A, Qwest has proposed to
10 perform batch hot cuts in a specific window outside of normal business hours in order to
11 gain efficiencies from concentrating the work in a single window and maximize the
12 number of cuts that can be performed by minimizing disruptions to the batch hot cut
13 technicians' work from the normal daily operations of the central office. Qwest's
14 observations of hot cut work established that a dedicated team of two technicians working
15 off-hours and without interruption could perform 100 lifts and lays in a single eight-hour
16 shift and still have time left over to complete those orders in Qwest's systems and perform
17 prewires for subsequent days' migrations. (Our direct testimony on this issue details
18 Qwest's time estimates.) Even though Qwest presented this information in the Batch Hot

⁷² Lichtenberg/Gates at 46:1074-75.

⁷³ Falcone at 20:6-9; Lynott at 129-31.

⁷⁴ Falcone at 21:5-6.

1 Cut Forum, none of the CLECs address it in their testimony or give any explanation why
2 they think the central office technicians' work could be expanded even further.

3 **Q. WHAT ABOUT ADDING A SECOND TWO-TECHNICIAN SHIFT, AS AT&T**
4 **SUGGESTS?**

5 A. As explained in our opening testimony, the ICDFs where rewiring and migration activity
6 take place concentrate a very large number of terminations in a very small space. It is not
7 unusual, for example, to have over 4,000 DS-0 terminations for a CLEC in a space four
8 feet wide. (The relevant variable is *not* the overall size of the central office or the MDF, as
9 AT&T's witness suggests,⁷⁵ but rather the particular frames in the central office where the
10 batch hot cut work actually takes place.) It would be difficult for four technicians to work
11 in the same small space simultaneously without losing efficiencies. AT&T's long-ago-
12 resolved complaints about the use of ICDFs *at all* are beside the point: that is where the
13 lines are today, and that is where the batch hot cut work needs to be performed.

14 The discussion of Impasse Issue P-3A above explains why Qwest cannot add a second shift
15 of two technicians outside the 3:00 AM to 11:00 AM window and maintain the efficiencies
16 (and lower costs) that both Qwest and the CLECs want. Interference from (and with) the
17 normal daily operations of the central office slows down the conversion process and
18 prevents tasks from being sequenced in the most efficient order possible. In addition,
19 spreading lifts and lays out over a sixteen-hour window dissipates the efficiencies that had
20 been gained by consolidating them in a single block of time starting at 3:00 AM.

⁷⁵ Falcone at 22:18-19.

1 More fundamentally, regardless of whether adding on extra shifts of technicians is
2 workable, AT&T has not established any practical need to do this at all. AT&T simply
3 asserts that 100 batch hot cuts per central office per day is an insufficient number without
4 providing any concrete evidence of a specific business need for more. We discuss this
5 further next.

6 **Q. PLEASE RESPOND TO THE CLECS' CLAIMS THAT 100 BATCH HOT CUTS**
7 **PER CENTRAL OFFICE PER DAY IS TOO LOW A NUMBER.**

8 A. It is meaningless to talk about whether the 100 per central office per day maximum sounds
9 “too high” or “too low” in the abstract; rather, the sufficiency of that number depends on
10 whether it can accomplish the task at hand. Ms. Million’s direct testimony provided
11 specific volume data demonstrating that even in the central offices across Qwest’s region
12 with the greatest existing volumes of UNE-P lines, and even assuming the hypothetical
13 worst of all worst-case scenarios (100% conversion of UNE-P to stand-alone unbundled
14 loops via the batch hot cut process), CLECs can clear out the embedded base of UNE-P
15 lines in an extremely short period using batches of 100 and *still* have more than abundant
16 slots left to cover any reasonably possible growth in UNE-P lines, newly acquired
17 customers, or churn.⁷⁶

18 By contrast, the CLECs claiming that the 100 per central office per day maximum is too
19 low present nothing but their own unsupported assertions. AT&T speculates that a CLEC
20 with 200 UNE-P lines in a central office might find it more efficient to convert in one day

⁷⁶ Exhibit TKM-5, dated January 23, 2004.

1 rather than two,⁷⁷ but presents no analysis of whether CLECs are able to process 200 hot
2 cuts per central office per a day on *their* end or of what practical impact one day could have
3 in the context of a FCC-specified twenty-one month transition. Similarly, McLeod baldly
4 asserts that the daily maximum “would prevent providers from even *considering* the
5 opportunity to wholesale local services to other carriers,”⁷⁸ without any business case or
6 other explanation of why this would possibly be so.

7 **N. IMPASSE ISSUE V-3 (MINIMUM SIZE OF A BATCH)**

8 **Q. PLEASE DESCRIBE IMPASSE ISSUE V-3 AGAIN.**

9 A. To qualify for the batch hot cut process, a CLEC must submit orders for at least 25 lines in
10 the same central office on the same day. MCI, AT&T and McLeod insist that there be no
11 minimum, so that the CLEC would qualify for the batch process even if the CLEC submits
12 only one or two orders for conversion.

13 **Q. PLEASE RESPOND TO THIS SUGGESTION.**

14 A. These CLECs would eliminate the whole point of creating a batch hot cut process in the
15 first place. As the *Triennial Review Order* explicitly recognizes, the entire reason for
16 creating a batch provisioning option separate from the ILECs’ existing hot cut options is to
17 “spread[] loop migration costs among a *large* number of lines, decreasing per-line cutover
18 costs,”⁷⁹ and to capture “the efficiencies associated with performing tasks once for multiple

⁷⁷ Falcone at 22:10-13.

⁷⁸ Lynott at 130-31 (emphasis in testimony).

⁷⁹ *Triennial Review Order* ¶ 487 (emphasis added).

1 lines that would otherwise have been performed on a line-by-line basis.”⁸⁰ Moving from
2 the FCC’s expected “large number of lines” to an inaccurately named “batch” of two
3 destroys these efficiencies and fails to spread costs. The rebuttal testimony of Ms. Million
4 describes some of these lost efficiencies and higher costs in more detail.

5 **O. IMPASSE ISSUE S-2 (STANDARD INTERVAL)**

6 **Q. PLEASE DESCRIBE IMPASSE ISSUE S-2 AGAIN.**

7 A. This issue addresses the standard provisioning interval that should apply to the batch hot
8 cut process. Qwest proposes a seven business day interval, which is substantially less than
9 that proposed by any other ILEC and in harmony with the intervals agreed to in the section
10 271 process. The CLECs counter with a five business day interval.

11 **Q. WHY DID QWEST PROPOSE A SEVEN DAY INTERVAL?**

12 A. First, the CLECs wanted a defined standard interval. Typically, requests for conversion in
13 excess of 25 lines are treated on an Individual Case Basis (“ICB”) and the Due Date
14 (“DD”) is negotiated between the parties. Second, the CLECs wanted the ability to change
15 the connecting facility assignment (“CFA”) on individual lines, if necessary, to keep a loop
16 which contains a CLEC problem in the scheduled batch. Today, if a bad CFA is
17 discovered on the DD, Qwest uses an extremely manual process on the DD to try and
18 resolve the problem. However, the existing process requires extensive coordination and
19 manual handling with, at times, multiple phone calls in order to find a good CFA. At that

⁸⁰ *Id.* ¶ 489.

1 point, the new CFA is manually assigned and then it is necessary, after the conversion is
2 complete, to update the necessary records and databases. The CLECs must issue a
3 subsequent (“sub”) LSR, and this “sub” has to be manually handled by Qwest. At the BHC
4 Forum, all parties agreed that this level of manual work on the day of cut would not work
5 given the volumes involved and the need to streamline the process. As such, all parties
6 agreed to eliminate this work on the day of cut and to create a time earlier in the process for
7 the CLEC to make any necessary CFA changes. The CLEC desired time to fix network
8 problems on their end is built into the seven-day interval at their request.

9 **Q. A “BATCH” IN THE PROPOSED BATCH HOT CUT PROCESS WILL CONTAIN**
10 **AT LEAST TWENTY-FIVE LINES. CAN A CLEC RECEIVE A SEVEN-DAY**
11 **PROVISIONING INTERVAL FOR MIGRATIONS OF GROUPS OF TWENTY-**
12 **FIVE LINES OR MORE TODAY?**

13 A. No. In fact, they cannot receive a standard interval at all: intervals for groups of twenty-
14 five lines or more must typically be negotiated on an individual case basis (“ICB”). For
15 this reason, the CLECs’ repeated comparisons of Qwest’s proposed seven-day provisioning
16 interval to intervals for smaller groups of loops under existing provisioning processes are
17 inapposite, as I explain next.

18 **Q. MCLEOD COMPARES THE PROPOSED BATCH HOT CUT PROCESS TO THE**
19 **EXISTING “QUICK LOOP” PRODUCT AND ASSERTS THAT THE LATTER IS**
20 **THREE DAYS. IS THIS ACCURATE?**

21 A. No. McLeod’s portrayal of the Quick Loop installation is only a partial description of the

1 offering. It is true that Quick Loop involves conversion of an existing customer that is not
2 served by IDLC and whose conversion does not require a dispatch of a technician.
3 However, the standard installation interval is not simply three days. The installation
4 interval is dependent on the number of lines being converted and whether Local Number
5 Portability (“LNP”) is required. The following chart displays the standard interval
6 associated with Quick Loop:

| Quick Loop Installation Intervals | | |
|--|-------------------|--------------------------|
| Option | # of Loops | Standard Interval |
| Quick Loop | 1 to 24 | 3 |
| Quick Loop | 25 + | ICB |
| Quick Loop + LNP | 1 to 8 | 3 |
| Quick Loop + LNP | 9 to 24 | 4 |
| Quick Loop + LNP | 25 + | ICB |

7
8 Thus if a CLEC wanted 25-100 loops - the relevant order size for the batch hot cut process
9 - through Quick loop, the CLEC would have to negotiate an interval on an ICB and not be
10 entitled to the three-day interval McLeod asserts. The proposed seven-day interval for the
11 batch hot cut process is a substantial improvement over Quick Loop.

12 **Q. WHY ARE QUICK LOOP REQUESTS FOR 25+ LINES TREATED ON AN ICB?**

13 A. Typically when a customer has a large project of 25 or more lines, more coordination is
14 required. By having the interval as ICB, this allows Qwest and the CLEC to discuss the
15 project and determine the installation interval. An additional benefit of project
16 coordination in this instance is to allow resource re-allocation in a given CO if needed.

17 **Q. HAS ANY STATE COMMISSION SET A STANDARD INTERVAL FOR QUICK**

1 **LOOP WITH MORE THAN 25 LOOPS?**

2 A. Yes. The Utah Commission set a ten day interval for Quick Loop without LNP activity. In
3 all other states the interval is on an Individual Case Basis (“ICB”). This again supports the
4 proposed seven-day interval, for the batch hot cut process as it is shorter than that ordered
5 by the Utah Commission.

6 **Q. WHY ARE THE INTERVALS FOR QUICK LOOP LONGER DIFFERENT WHEN**
7 **LNP IS INVOLVED?**

8 A. The inclusion of Local Number Portability requires additional coordination. When the
9 Quick Loop installation option was developed the Qwest group responsible for LNP
10 activity requested an additional day for coordination purposes when the number of loops
11 exceeds 8 loops.

12 **Q. WILL THE MIGRATIONS INVOLVED IN THE BATCH HOT CUT PROCESS**
13 **TYPICALLY INVOLVE LNP?**

14 A. Yes. Typically the end user customer wants to retain the existing telephone number. As
15 McLeod states in its testimony, it has been actively converting UNE-P customers to
16 unbundled loops and in virtually all, if not all, circumstances LNP is involved.

17 **Q. MCLEOD REQUESTS THAT THIS COMMISSION EXPAND THE QUICK LOOP**
18 **PROVISIONING OPTION CREATED AND AGREED UPON IN THE SECTION**
19 **271 PROCEEDINGS. PLEASE RESPOND.**

20 A. McLeod’s request is beyond the scope of this proceeding. The *Triennial Review Order*
21 directs state commissions to adopt a new batch hot cut process, not reopen every ILEC

1 UNE provisioning process for amendment. The FCC “conclude[s] that the loop access
2 barriers contained in the record may be mitigated through the creation of a batch cut
3 process,” and accordingly orders that “State commissions must approve, within nine
4 months of the effective date of this Order, a batch cut migration process to be implemented
5 by incumbent LECs that will address the costs and timeliness of the hot cut process.”⁸¹
6 Nothing in the *Triennial Review Order*, however, gives the states a roving mandate to ferret
7 out and fix alleged impairments.

8 **Q. AT&T COMPARES THE BHCP TO OTHER ANALOG LOOP PROVISIONING**
9 **OPTIONS AND COMES UP WITH A FIVE-DAY INTERVAL.⁸² IS AT&T**
10 **MAKING THE RIGHT COMPARISON?**

11 A. No. AT&T, like McLeod, compares apples and oranges, citing the intervals that apply to a
12 single loop or small (up to eight) group of loops, not a batch of 25 to 100. The installation
13 interval for unbundled loops is based on the volume of loops being provisioned. For an
14 analog loop the intervals are as follows:

| Analog Loop Installation Intervals | | |
|---|-------------------|--------------------------|
| Option | # of Loops | Standard Interval |
| Analog Loop | 1 to 8 | 5 |
| Analog Loop | 9 to 16 | 6 |
| Analog Loop | 17 to 24 | 7 |
| Analog Loop | 25 + | ICB |

15

⁸¹ *Id.* ¶¶ 487-88.

⁸² Falcone at 31:11-13.

1 The existing intervals recognize that provisioning of multiple lines requires additional time.
2 Rather than establishing different intervals based on the size of a batch, Qwest determined
3 that it would match the standard seven-day interval that currently applies to analog loop
4 requests up to 24 lines. This table contains the very intervals the CLECs agreed during the
5 section 271 process would provide them a meaningful opportunity to compete. The
6 proposed batch hot cut process's seven-day interval for batches of 25 to 100 loops goes one
7 step better.

8 **Q. MCLEOD SUGGESTS THAT THE SEVEN-DAY INTERVAL CAN BE REDUCED**
9 **TO FIVE DAYS BECAUSE NO WORK IS BEING PERFORMED ON DAY 5 AND**
10 **DAY 6.⁸³ IS THIS ACCURATE?**

11 A. No. These are the days that CLECs supplement their orders if they need to change their
12 CFAs and Qwest redoes the rewiring to reach the new CFAs. They were put into the
13 interval at the CLECs' own insistence at the Batch Hot Cut Forum. If Qwest performs a
14 DT/ANI test during the pre-wiring on DVA (days 2 to 3) and finds no dial tone ("NDT"),
15 the CLEC is notified via the batch status tool and a jeopardy is issued on the line. This
16 gives the CLEC the standard interval to make the CFA changes (3 days) and to submit a
17 supplemental order. Upon receipt of the supplemental order, the Qwest COT would need
18 time to wire to the new CFA.

19 **Q. ARE CLECS REQUIRED TO UTILIZE BHC FOR CONVERSIONS OR**
20 **MIGRATIONS?**

⁸³ Lynott at 9:186-87.

1 A. No. If a CLEC believes that the seven-day interval would somehow jeopardize the
2 customer's migration to the CLEC, then the CLEC can elect to use one of the other
3 installation options.

4 **Q. PLEASE RESPOND TO MCLEOD'S STATEMENT THAT QWEST SHOULD SET**
5 **INTERVALS THAT ARE AT PARITY WITH UNE-P AND QWEST RETAIL.**⁸⁴

6 A. It was recognized in the section 271 proceedings that the provisioning of unbundled loops
7 does not have a retail analog, so McLeod's suggested comparison to retail provisioning is
8 meaningless. The provisioning of UNE-P is likewise inapposite. If the UNE-P installation
9 is a "Conversion As Is" then the customer's service does not physically change. The
10 service continues to be provisioned by the Qwest switch, the features and functionalities
11 remain the same and outside plant facilities remain untouched. Basically, the change is one
12 of records only, including the network records and the billing records. However, when the
13 end user customer switches to an unbundled loop the situation is very different. The
14 customer's facilities must be tested and moved from the Qwest switch to the CLEC's
15 facilities. Additionally, based on the facilities involved, a field dispatch may be required.
16 As discussed extensively during the section 271 Workshops and as currently reflected in
17 the PIDs, the unbundled loop is not in parity with Qwest retail service.

18 **Q. IS QWEST'S PROPOSED SEVEN-DAY INTERVAL A SUBSTANTIAL**
19 **IMPROVEMENT FOR CLECS?**

20 A. Absolutely. The seven-day interval provides the CLECs with a standard interval regardless

⁸⁴ Lynott at 9:171-90.

1 of the size of the batch, thereby allowing them to give their end users a firm due date at the
2 time the order is submitted and not after some case-by-case interval can be negotiated in
3 the ICB process. Additionally, it supports the CLECs' needs to provide for CFA changes
4 or to make sure that their translations have been programmed. In short, it allows a defined
5 period of time that Qwest will cut over large quantities of unbundled loops without the
6 need to negotiate an interval. It provides certainty, but recognizes what all parties,
7 including CLECs, recognized in the section 271 process: that when large volumes of
8 unbundled loops are involved, the provisioning interval must increase. The Commission
9 should approve Qwest's proposed seven-day interval.

10 **P. IMPASSE ISSUE T-1 (COMMERCIAL TESTING)**

11 **Q. PLEASE DESCRIBE IMPASSE ISSUE T-1 AGAIN.**

12 A. All the CLECs agreed that before the Commission can approve Qwest's proposed BHCP,
13 there must be evidence that the process works in a commercial setting. The CLECs and
14 state staff members that attended the Forum disagreed, however, on the precise nature of
15 that process testing.

16 **Q. AT&T, MCI AND MCLEOD ALL STATE THAT QWEST MUST HAVE ITS BHCP**
17 **TESTED BY AN INDEPENDENT THIRD PARTY BEFORE THE COMMISSION**
18 **APPROVES THE PROCESS. PLEASE RESPOND.**

19 A. Hitachi Consulting has already performed a test to evaluate Qwest's new BHCP. The
20 testimony of Lorraine Barrick explains the test, and sets forth her conclusions about the
21 test. Qwest and McLeod jointly performed this testing with Hitachi overseeing the process.

1 **Q. WHY DID QWEST ASK MCLEOD TO PARTICIPATE IN A TEST OF THE**
2 **ORIGINALLY PROPOSED BHCP?**

3 A. At the time Qwest began developing a new BHCP, McLeod was the only company
4 submitting the volumes of conversion orders in a single central office that would be
5 necessary for a test. Qwest, in an effort to test its process, contacted McLeod to see if it
6 had an interest in participating in the trial with the understanding that the newly proposed
7 process would be used.

8 **Q. MCLEOD SUGGESTS THAT ALL OF THE NEW OSS SUPPORTING QWEST'S**
9 **BATCH HOT CUT PROPOSAL MUST BE SEPARATELY TESTED. IS THIS**
10 **NECESSARY?**

11 A. No. This will automatically happen as part of the CMP, and no additional test is required.
12 Once an OSS interface change is submitted, processed, and implemented through CMP, it
13 is placed into "CLEC Test" status. Before it is moved from "CLEC Test" status to
14 "Closed," all parties to the CMP must agree to close the change request. This final
15 agreement gives all CLECs an opportunity to adequately "test" every change to ensure it
16 meets both their expectations and needs, before the CR is closed. Additional testing of
17 these changes outside the CMP is unnecessary.

18 **Q. PLEASE SUMMARIZE YOUR CONCLUSIONS ON TESTING QWEST'S BATCH**
19 **HOT CUT PROCESS.**

20 A. Hitachi has already tested Qwest's BHCP, and in the most recent trials, the process has
21 worked exactly as expected. McLeod, Qwest's testing partner, agrees that many aspects of

1 the process work and work well. McLeod's only testing concern has been whether Qwest's
2 central office technicians can provision 100 lines in a day. As Ms. Barrick explains, the
3 evidence shows that this will not be a problem. Qwest has adequately tested its process,
4 and the results of the test show that Qwest will be able to meet anticipated demands.

5 **IV. LOOP PROVISIONING ISSUES**

6 **Q. HAVE ANY OF THE INTERVENORS RAISED GENERAL LOOP**
7 **PROVISIONING ISSUES.**

8 A. Yes. AT&T raises a number of general questions about Qwest's ability to provision loops
9 in large quantities. I will react to these issues individually.

10 **Q. AT&T CITES "PROVISIONING DELAYS" AND "SERVICE OUTAGES" AS**
11 **REASONS TO SUPPORT THE FCC'S FINDING OF IMPAIRMENT.⁸⁵ PLEASE**
12 **COMMENT ON BOTH OF THESE ISSUES.**

13 A. This Commission has to look no further than the PID results on each of these issues.
14 Regionally, for the past 12 months, Qwest has provisioned requests for UNE-Loop orders
15 at a level above the 98% mark between December 2002 and September 2003, and for the
16 last two months on the regional performance report, Qwest has performed above 99%.⁸⁶
17 The data on service outages are equally good. From December 2002 until September 2003,
18 the average coordinated hot cut took approximately 3 minutes, with only one month - May

⁸⁵ Falcone at 8:1-8:18.

⁸⁶ 2003 Regional OP-3D PID measurements, Dec 02 to Nov 03.

1 2003 - running longer at 4 minutes.⁸⁷ For the same period of time, new service installation
2 quality (OP-5) averaged 98.7%. To summarize, Qwest provisions loops and meets
3 installation commitments more than 98% of the time. Service outages only occur, on
4 average, in about 1.3% of the time and that the overall time an end user is involved in the
5 conversion is approximately 3 minutes. Given that the lift and lay itself only takes
6 approximately 20 seconds, and given that Qwest provides a way for the CLEC to receive
7 instantaneous notification once a lift and lay is complete (through “trap and trace”), any
8 responsibility for a longer customer service outage was only with the CLECs themselves
9 and their efficiency in porting their customers’ telephone numbers after a cut.

10 **Q. AT&T ALSO DISCUSSES SUBSTANDARD PERFORMANCE IN RETURNING**
11 **TIMELY FIRM ORDER CONFIRMATIONS (“FOCS”). PLEASE COMMENT ON**
12 **THESE CLAIMS.**

13 A. Once again, the proof is in the regional PID measurements – in particular, PO-5A-1(b),
14 FOCs returned on time. Qwest’s performance in this area averages an extremely high
15 99.81% of FOCs are returned on time.⁸⁸

16 **Q. AT&T CONTENDS THAT QWEST’S HIGH PERFORMANCE LEVELS WILL**
17 **DROP AS QWEST STAFFS UP TO MEET EXPECTED DEMANDS. DO YOU**
18 **AGREE?**

⁸⁷ 2003 Regional OP-7 PID measurements, Dec 02 to Nov 03.

⁸⁸ 2003 Regional PO-5A-1(b) PID measurements, Dec 02 to Nov 03.

1 A. No. This work is not as complicated as AT&T is attempting to portray, and there are many
2 individuals who are more than qualified to perform it. As companies continue to downsize,
3 there will potentially be even more available by the time the conversions of UNE-P to
4 stand-alone unbundled loops begin in earnest.

5 **Q. AT&T DESCRIBES THE HOT CUT PROCESS AS AN INFERIOR METHOD OF**
6 **PROVIDING SERVICE TO CLECS, AND STATES THAT IT WILL CAUSE**
7 **OPERATIONAL DIFFICULTIES IN TERMS OF INCREASED TROUBLES FOR**
8 **THE CLEC. DOES QWEST’S PERFORMANCE DATA BEAR THIS OUT?**

9 A. No, it does not. Qwest tracks performance data for both analog loops and UNE-P-POTS.
10 Qwest tracks, among other things, the percentage of installation commitments met, new
11 installation service quality, and several different repair metrics. In each instance, the
12 regional and state specific data for both analog loops and UNE-P-POTS is very similar.
13 Specifically, the regional data shows:

| Performance Metric | Analog Loops | UNE-P-POTS |
|------------------------------------|---|--|
| OP-3: Installation Commitments Met | Zone 1: 98.1% - 99.3% Zone 2: 98.5% - 99.5% | Dispatch in MSA: 96.3% - 98.9% Dispatch out MSA: 96.0% - 98.7% No Dispatch: 99.89% - 99.97% |
| OP-5: Installation Service Quality | Total: 98.16% - 99.01% | Total: 97.0% - 98.1% |
| MR-6: Mean Time to Restore Service | Zone 1: 2.6 – 8.6 hours Zone 2: 1.8 – 12.0 hours | Dispatch in MSA: 10.5 – 12.3 hours Dispatch out MSA: 9.5 – 12.7 hours No Dispatch: 2.7 – 4.7 hours |
| MR-8: Overall Trouble Rate | Total: .6% - 1.0% | Total: 0.8% - 1.3% |

1 This data shows an extraordinary level of performance in all respects. Qwest consistently
2 meets over 98% of its commitments, while simultaneously experiencing less than 3%
3 troubles on those new installations. In addition, the overall trouble rate is consistently less
4 than 1%. This data does not show either UNE-P or analog loops to be superior in relation
5 to the other. To the contrary, it shows that CLECs can readily use and rely upon both
6 products. In sum, any concerns about Qwest's ability to provision unbundled loops are
7 totally without basis. The fact that Qwest has provisioned 99,000 loops for McLeod in a
8 very short period of time, without additional resources, and at a high level of quality,
9 makes this point.

10 **V. CONCLUSION**

11 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

12 **A. Yes.**