

Affidavit

of

Jean Liston

Karen Stewart

Attachment 9/3/10

- ATTACHMENT 7 Affidavit of Jean M. Liston, Checklist Item 4 Unbundled Loops, NIDs and Line Splitting
- ATTACHMENT 10 Affidavit of Karen A. Stewart, Checklist Item 5 - Unbundled Local Transport
- ATTACHMENT 11 Affidavit of Lori A. Simpson, Checklist Item 6 - Unbundled Network Elements Switching
- ATTACHMENT 12 Affidavit of Margaret S. Bumgarner, Checklist Item 7 - 911 and E911 Access
- ATTACHMENT 13 Affidavit of Lori A. Simpson, Checklist Item 7 - Operator Services and Directory Assistance Services
- ATTACHMENT 14 Affidavit of Lori A. Simpson, Checklist Item 8 - White Pages Directory Listings
- ATTACHMENT 14 Affidavit of Margaret S. Bumgarner, Checklist Item 9 - Numbering Administration
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- ATTACHMENT 19 Affidavit of Thomas R. Freeberg, Checklist Item 13 - Reciprocal Compensation
- ATTACHMENT 20 Affidavit of Lori A. Simpson, Checklist Item 14 - Resale
- ATTACHMENT 21 Affidavit of David L. Tietzel, Public Interest
- ATTACHMENT 22 Affidavit of Mark Reynolds, Performance Assurance Plan (QPAP)
- ATTACHMENT 23 Affidavit of Michael G. Williams, Performance Measures (PIDs)
- ATTACHMENT 24 Affidavit of Judith L. Brunsting, Section 272
- ATTACHMENT 25 Affidavit of Marie E. Schwartz, Section 272
- ATTACHMENT 26 Revised version of Qwest's Statement of Generally Available Terms, which reflects the consensus reached with CLECs in Section 271

BEFORE THE
PUBLIC UTILITIES COMMISSION
STATE OF SOUTH DAKOTA

IN THE MATTER OF THE INVESTIGATION) DOCKET TC 01-
INTO QWEST CORPORATION'S)
COMPLIANCE WITH SECTION 271 (C) OF THE)
TELECOMMUNICATIONS ACT OF 1996)

QWEST CORPORATION'S

AFFIDAVIT

OF

JEAN M. LISTON

CHECKLIST ITEM 4 – UNBUNDLED LOOPS, NIDs, and LINE SPLITTING

October 24, 2001

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AFFIDAVIT

OF

JEAN M. LISTON

Checklist Item 4 – Unbundled Loops, NIDs, and Line Splitting

Jean M. Liston states as follows:

My name is Jean M. Liston. My business address is 1600 Seventh Avenue, Seattle, Washington, 98191. I am a Director in the Policy and Law organization at Qwest Corporation ("Qwest"). I submit this affidavit in support of Qwest's application for authority to provide interLATA services originating in South Dakota. Specifically, this affidavit demonstrates Qwest's compliance with Checklist Item 4, unbundled loops, of the Telecommunications Act of 1996 ("1996 Act" or "Act").¹ This affidavit also addresses Qwest's compliance with the Act and FCC rules regarding provision of Network Interface Devices ("NIDs") and line splitting.

I base this affidavit on professional experience, personal knowledge, and information available to me in the normal course of my duties, including records kept by Qwest in the regular course of business.²

¹ 47 U.S.C. § 271(c)(2)(B)(iv).

² Professional experience, education and other biographical information are set forth in Exhibit JML-LOOP-1.

1 **I. EXECUTIVE SUMMARY**

2 Qwest complies with the Federal Communications Commission's ("FCC")
3 requirements regarding access to unbundled loops. Unbundled loops, including
4 analog/voice grade loops, high capacity loops, Digital Subscriber Line ("xDSL") loops,
5 loop conditioning, line and loop splitting, are now available to competitive local
6 exchange carriers ("CLECs") under Qwest's Statement of Generally Available Terms
7 ("SGAT") as well as through individually negotiated interconnection agreements. The
8 SGAT is Qwest's standard wholesale contract offer, which provides competitors with the
9 rates, terms and conditions that Qwest commits to provide in the provisioning of
10 unbundled network elements, including unbundled loops, line splitting and NIDs. The
11 SGAT also delineates methods and procedures for handling spectrum management
12 issues.

13 Qwest currently provides unbundled loops to CLECs in South Dakota in a timely
14 and nondiscriminatory manner. As I describe more fully below, Qwest has processes in
15 place to make unbundled loops available to CLECs upon request and has performance
16 indicator definitions ("PIDs") in place allowing CLECs and state commissions to assess
17 Qwest's unbundled loop service performance. These indicators and their
18 measurements were established in a collaborative process involving the Regional
19 Oversight Committee("ROC"), with the participation of state commission staffs, CLECs,
20 and Qwest.

21 This affidavit identifies the specific unbundled loops that Qwest provides, and it
22 explains how Qwest provisions loops, what responsibilities the CLECs have in ordering

1 loops, and the installation and repair performance standards applicable to Qwest's
2 various unbundled loop offerings. The affidavit also describes Qwest's success in
3 satisfying applicable performance standards.

4 Qwest has engaged in workshops in Arizona, Colorado, Oregon, Washington,
5 and in a multi-state 271 proceeding involving state commissions in Idaho, Iowa,
6 Montana, New Mexico, North Dakota, Utah, and Wyoming. These proceedings were
7 collaborative processes, conducted on an open basis with the full, active, and equal
8 participation by CLECs and state commission staffs. A significant portion of this
9 process involved responding to concerns raised by CLECs regarding Qwest's obligation
10 to provide access to unbundled loops and the associated SGAT language. Throughout
11 the process, Qwest attempted to obtain consensus SGAT language. When this was not
12 possible, the parties presented legal briefs on their disputes and the workshop
13 Facilitator, Administrative Law Judge, or the Commission staff presented
14 recommendations to the state commission. For example, seven states (Idaho, Iowa,
15 Montana, New Mexico, North Dakota, Utah, and Wyoming) developed a collaborative
16 process including joint workshop sessions overseen by a Facilitator, Mr. John Antonuk
17 ("the Multi-State Facilitator"). During the workshop process, Qwest agreed to changes
18 in its SGAT and processes to address CLEC concerns. For those issues upon which
19 the parties could not agree, the Multi-State Facilitator considered the legal and factual

1 positions of the parties and issued recommendations to the seven state commissions.³

2 Qwest's South Dakota SGAT reflects the workshop agreements and incorporates the
3 recommendations of the Multi-State Facilitator regarding Checklist Item 4.

4 As of August 31, 2001, Qwest had provided six South Dakota CLECs with 1,392
5 unbundled loops in South Dakota. Specifically, Qwest was providing 1,351 voice
6 grade/analog loops, 26 xDSL capable loops, and 15 high-capacity loops in South
7 Dakota. Throughout its 14-state territory Qwest has 264,802 unbundled loops in service
8 as of the end of August. Of this total, 206,655 are voice grade/analog loops and 58,147
9 are digital capable loops.

10 For these reasons and those set forth below, the Commission should find that
11 Qwest satisfies the requirements of Checklist Item 4.

12 **II. QWEST COMPLIES WITH THE FCC'S UNBUNDLED LOOP REQUIREMENTS.**

13 Qwest satisfies the criterion in 47 U.S.C. § 271(c)(2)(B)(iv) of the 1996 Act.
14 Section 271(c)(2)(B)(iv) requires Bell operating companies ("BOCs"), such as Qwest,
15 wishing to offer in-region interLATA service to provide "local loop transmission from the
16 central office to the customer's premises, unbundled from local switching or other
17 services." In the UNE Remand Order, the FCC defined the local loop as:

3 Multi-State Unbundled Network Element Report (Multi-State Workshop, Aug. 20, 2001) ("Multi-State UNE Report").⁴ Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, Third Report and Order and Fourth Further Notice of Proposed Rulemaking, CC Docket No. 96-98, FCC 99-238, 15 FCC Rcd at 3696, ¶¶ 166-79 (rel. Nov. 5, 1999) ("UNE Remand Order"); see also 47 C.F.R. § 51.319(a)(1).

1 a transmission facility between a distribution frame (or its equivalent)
2 in the incumbent LEC central office and the loop demarcation point at
3 an end-user customer premises, including inside wire owned by the
4 incumbent LEC. The local loop network element includes . . . dark
5 fiber, attached electronics (except those electronics used for the
6 provision of advanced services, such as Digital Subscriber Line
7 Access Multiplexers), and line conditioning.⁴

8 Pursuant to Section 9.2 of its SGAT, Qwest has a concrete and specific legal
9 obligation to provide CLECs with access to unbundled loops capable of transmitting
10 analog voice service, digital subscriber line service (xDSL), and high-capacity services.
11 For example, Qwest's SGAT, as well as interconnection agreements with individual
12 carriers, obligate Qwest to provide CLECs unbundled loops, such as 2 and 4-wire
13 analog loops, 2 and 4-wire non-loaded loops that have been conditioned to transmit
14 digital signals, xDSL-I loops, ISDN-capable loops, and DS-1, DS-3, fiber, and OCn high
15 capacity loops.⁵ The SGAT also sets forth terms and conditions for conditioning of
16 loops, access to loops provisioned using Integrated Digital Loop Carrier ("IDLC"), and
17 access to loop make-up information.

18 Moreover, Qwest is obligated to provide such loops to CLECs in a
19 nondiscriminatory manner and to provide loops of substantially the same quality as the
20 loop that Qwest uses to provide service to its own end users.⁶ For those loops with
21 retail analogues, Qwest commits to provide the loops in substantially the same time and

⁵ *Id.*

⁶ See SGAT § 9.2.2.1.

1 manner as Qwest provides such loops to itself. For those loops for which the ROC has
2 established performance benchmarks, Qwest commits to provide such loops in
3 accordance with the PIDs established in the ROC and the installation intervals set forth
4 in Exhibit C to the SGAT.

5 **A. Qwest Offers All Required Categories of Unbundled Loops.**

6 Qwest allows CLECs to select from the complete range of unbundled loops.
7 Specifically, Qwest offers (1) 2-wire and 4-wire voice-grade/analog loops; (2) four types
8 of high-capacity loops; and (3) four types of loops that generally can be grouped
9 together in the category of "xDSL capable" loops.⁷

10 **1. Voice-Grade/Analog Loops**

11 Basic 2-Wire/4-Wire Analog Loop. The basic 2-wire/4-wire analog loop is
12 available as a 2-wire or 4-wire voice grade, point-to-point configuration suitable for local
13 exchange type services. This service is a transmission path that provides a connection
14 from the Qwest serving Central Office Distribution Frame or equivalent to the
15 demarcation point at the end user's location. The actual loop facilities may utilize
16 various technologies or combinations of technologies.⁸ The analog loop can be
17 purchased in conjunction with number portability.

⁷ See SGAT §§ 9.2.2.2-9.2.2.3, 9.2.6.1. The SGAT also provides for access to OCn loops. Qwest recently established prices for OCn loops, and the South Dakota rates are included in Exhibit A to the SGAT. The installation interval for these loops is determined on an Individual Case Basis ("ICB"). *Id.* § 9.2.2.3.1.

⁸ SGAT § 9.2.2.2.

1 2. **High Capacity Loops**

2 Qwest offers four types of high-capacity loops under general terms and
3 conditions in the SGAT: (1) DS-1 capable loops, (2) DS-3 capable loops, (3) OCn
4 loops, and (4) dark fiber loops.⁹

5 DS-1 Capable Loop. The DS-1 capable loop is a transmission path between the
6 Qwest Serving Central Office Distribution Frame, or equivalent, and the demarcation
7 point at the end user location. The DS-1 capable loop transports bi-directional DS-1
8 signals with a nominal transmission rate of 1.544 Mbps and will meet the design
9 requirements specified in standard industry technical publications.¹⁰

10 DS-3 Capable Loop. The DS-3 capable loop is a transmission path between a
11 Qwest serving Central Office Distribution Frame, or equivalent, and a demarcation point
12 at an end user location. The DS-3 capable loop transports bi-directional DS-3 signals
13 with a nominal transmission rate of 44.736 Mbps that meets the design requirements
14 specified in standard industry technical publications.¹¹ Availability of the DS-3 capable
15 loop is limited to those routes where DS-3 facilities have already been deployed.

9 SGAT § 9.2.1.

10 SGAT § 9.2.2.6.1.

11 SGAT § 9.2.2.6.2.

1 Per DS-1 or DS-3 capable loop, Qwest will provide the necessary electronics at
2 both ends including any intermediate repeaters. In addition, the CLEC will have access
3 to these terminations for testing purposes.¹²

4 OCn Capable Loops. Qwest also stands ready to provide access to higher
5 capacity loops, including but not limited to OC3, OC12, OC48, and OC192 loops.¹³ To
6 date, no CLEC in the Qwest 14-state region, including South Dakota, has requested
7 loops at OCn or any other capacity higher than DS-3.

8 Dark Fiber Loops. Qwest also offers unbundled dark fiber loops on an individual
9 case basis ("ICB"), where facilities are available.¹⁴ Dark fiber issues are discussed in
10 greater detail in the affidavit of Ms. Karen Stewart on Emerging Services.

11 3. xDSL Capable Loops

12 a. Categories of xDSL Capable Loops

13 Qwest offers four categories of loops that can be classified as "xDSL capable"
14 loops: (1) 2-wire and 4-wire "non-loaded" loops; (2) Basic Rate ISDN ("BRI") capable
15 loops; (3) asymmetrical digital subscriber line ("ADSL") compatible loops; and (4) xDSL-
16 capable loops.

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SGAT § 9.2.2.3.1.

SGAT § 9.2.2.3.1.

1 2-Wire/4-Wire Non-Loaded Loop. The 2-wire/4-wire non-loaded loop is a metallic
2 facility that provides a transmission path from the Qwest serving Central Office
3 Distribution Frame, or equivalent, to the end user's demarcation point. It is a metallic,
4 wire cable pair with no load coils, and, depending on the Network Channel and Network
5 Channel Interface codes specified by the CLEC, some limited lengths of bridged tap.
6 Qwest will condition loops at the CLEC's request. The conditioning process is
7 described at length below.

8 Basic Rate ISDN ("BRI") Capable Loop. The Basic Rate ISDN capable loop is a
9 Qwest facility with a 2-wire interface that provides a transmission path from the Qwest
10 serving Central Office Distribution Frame, or equivalent, to an end user's demarcation
11 point. This loop transports bi-directional, 2-wire, signals with a nominal transmission
12 rate of 160 KBPS, meets the performance requirements specified in standard technical
13 publications, and permits access to 144 KBPS channelized payload bandwidth for
14 transport of services.

15 ADSL Compatible Loop. The ADSL compatible loop is an unbundled 2-wire
16 metallic facility that establishes a transmission path between a Qwest serving Central
17 Office Distribution Frame and the demarcation point located at the end user's
18 designated premises. This loop will meet the ADSL performance requirements
19 specified in relevant technical publications. If necessary, Qwest will condition the loop
20 at the CLEC's request to meet the ADSL technical parameters.

21 xDSL-I Capable Loop. The xDSL-I capable loop is a 2-wire facility that provides
22 a transmission path from the Qwest serving Central Office Distribution Frame, or

1 equivalent, to an end user demarcation point. This loop transports bi-directional, 2-wire
 2 signals with a nominal transmission rate of 160 KBPS, meets the performance
 3 requirements specified in standard technical publications, and permits access to 144
 4 KBPS unchannelized payload bandwidth for transport of services.¹⁵

5 Qwest uses the terms "capable" and "compatible" to make it clear that, while
 6 Qwest provides the loop facility, the CLECs provide the service over those unbundled
 7 loops. Specifically, "capable" means that Qwest assures that the loop is going to pass
 8 the technically-specified signal, consistent with industry standards.¹⁶ The term
 9 "compatible" means that Qwest assures that the loop complies with the ordered
 10 Network Channel ("NC") and Network Channel Interface ("NCI") codes, but makes no
 11 assumptions as to the capabilities of the CLEC's central office equipment or customer
 12 premises equipment ("CPE").¹⁷ If a CLEC uses sensitive equipment -- for example,
 13 equipment that exceeds industry signal-to-noise ratio standards -- the CLEC may well
 14 be able to use loops that are considered beyond normal length or loss, and therefore
 15 Qwest does not restrict the use of the loop due to loop length.

15 Performance results for xDSL-I capable loops are grouped with ISDN capable loops.

16 SGAT § 9.2.2.1.1. For example, ANSI Standards T1.601 and T1.102 specify the ISDN and DS-1 interfaces. There are test sets that indicate whether the loop is performing to the established standards. Qwest will build the capable loop using whatever equipment it takes, such as subscriber loop carrier or range extenders, to insure that the loop meets the standards.

17 SGAT § 9.2.2.1.2.

1 The facilities used to provide the xDSL capable unbundled loop categories listed
2 above are different from those that Qwest uses to provide its retail DSL service. The
3 unbundled xDSL capable loop is a dedicated facility designed to support high-speed
4 digital transmissions; such facilities may need to be conditioned to enable CLECs to
5 offer xDSL service. On the other hand, the Qwest DSL (formerly known as "Megabit")
6 retail offering uses an existing line, provides service only in locations where no loop
7 conditioning is necessary, and utilizes a shared facility technology, in which the data
8 signals are transmitted over the same copper facility as the voice signals (*i.e.*, line
9 sharing).

10 Extension Technology. Qwest provides extension technology if needed for Basic
11 Rate ISDN ("BRI") capable loops and xDSL-I capable loops. Extension technology
12 takes into account, for example, additional regenerator placement, central office
13 powering, and mid-span repeaters, if required, as well as BRITE cards in order to
14 provision the Basic Rate ISDN capable or xDSL-I capable loops. Extension technology
15 may be required to bring the circuit to the specifications necessary to accommodate the
16 requested service. Qwest will add extension technology if the circuit design requires it
17 or if requested by a CLEC to meet its specific needs. If the circuit design requires
18 extension technology to meet the technical standards, then Qwest will add it at no
19 charge.¹⁸ However, if a CLEC requests the addition of extension technology to the loop

¹⁸ See SGAT § 9.2.2.5.

even though it is not needed to meet technical standards, the installation of extension technology will result in a monthly recurring charge to the CLEC.

Loop with Multiplexing. Multiplexing is offered in DS-3 to DS-1 and DS-1 to DS0 configurations. Qwest permits CLECs to combine unbundled loops with multiplexing devices and also the conversion of existing private line or special access circuits into unbundled loops with a multiplexing device.¹⁹

b. Line Conditioning

Line conditioning or loop conditioning is the term used to describe the process of removing load coils, bridged tap, and any other devices from existing copper loops that would negatively affect the transmission of a digital signal. In many cases, the data portion of the loop will not work correctly if there are load coils or certain amounts of bridged tap on the loop. Qwest provides CLECs with loop conditioning for xDSL compatible loops upon request, consistent with 47 C.F.R. § 51.319(a)(3)(i) & (h)(5).²⁰

This ability to condition lines is not, however, unlimited. The conditioning requirement is subject to a technical feasibility standard as delineated by the FCC.²¹

¹⁹ See SGAT §§ 9.2.2.10, 9.2.4.6.

²⁰ SGAT §§ 9.2.2.4 and 9.2.4.9; see also 47 C.F.R. § 319(a)(3)(i) (defining "line conditioning as "the removal from the loop of any devices that may diminish the capability of the loop to deliver high-speed switched wireline telecommunications capability, including xDSL service").

²¹ Implementation of the Local Competition Provisions of the Telecommunications Act of 1996; Interconnection between Local Exchange Carriers and Commercial Mobile Radio Service Providers, Order, CC Docket Nos. 96-98 and 95-185, FCC

Although no FCC order requires Qwest to condition loops proactively, in 2000 Qwest voluntarily established a bulk de-loading project to remove load coils from copper loops that are under 18,000 feet in length in selected wire centers in which CLECs and Qwest were providing DSL services. This project minimized the occurrence of short copper loops that needed to be conditioned on a one-by-one basis. Qwest provided the CLECs with a web-based tool that identified the wire centers and the routes impacted and also included an expected completion date. Once Qwest deloaded a route and updated the databases, the route was posted on the web as a completed route. Three South Dakota wire centers, including Sioux Falls, were included in this project.

II. Qwest Has Unbundled Loops Procedures In Place.

In the following sections of my affidavit, I describe the steps through which a CLEC orders and obtains unbundled loops from Qwest, including (a) pre-ordering and ordering, (b) installation, (c) maintenance and repair, and (d) billing. I discuss the PIDs that have been developed to measure and assess Qwest's performance with respect to each of these steps in providing unbundled loops, and I describe how Qwest's actual performance meets or exceeds the great majority of these standards. Because Qwest has now provisioned over 259,624 loops in its 14-state area, there is now a well-developed process in place that allows CLECs to order loops from Qwest.

96-325, 11 FCC Rcd 15499, ¶ 381 (rel. Aug. 8, 1996) ("Local Competition Order").

I. Pre-Ordering and Ordering Process

Overview of Process. In general, a CLEC first utilizes pre-order transactions, such as address validation, Customer Service Request ("CSR"), facility check and loop make-up tests to gather information necessary to place an unbundled loop order. The CLEC then orders an unbundled loop by submitting a Local Service Request ("LSR")²² via the methods of Interconnection Mediated Access ("IMA") – either a web-based Graphical User Interface ("IMA GUI"), or an Electronic Data Interchange system ("IMA EDI") – or by fax. The CLEC order is processed and entered into the Qwest service order processor ("SOP") which then issues a Firm Order Confirmation ("FOC") to the CLEC. This constitutes the normal ordering procedure for the CLEC.

a. Pre-Order xDSL Qualification Tools.

The UNE Remand Order requires Qwest to provide loop make up information to CLECs to permit the CLEC to evaluate whether a requested loop facility is capable of providing the service the CLEC seeks to offer.²³ Qwest provides several tools to enable CLECs to gather data on loop facilities. These tools, described in Section 9.2.2.8 of the SOAT, include:

SOAT § 9.2.4.1.

UNE Remand Order, ¶¶ 426-431.

The ADSL Loop Qualification Tool is accessible to the CLECs via IMA.

1 (1) The ADSL Loop Qualification Tool, first introduced in October
2 1999, which provides line-by-line data on loop plant composition
3 tailored to the needs of CLECs.²⁴ This tool indicates if the loop is
4 capable of supporting ADSL service and it also includes loop
5 length, type of facility, presence of bridged tap or load coils, and the
6 insertion loss.

7 (2) The Bulk Wire Center Loop Make-Up Tool, introduced in August
8 2000, which provides a bulk "batch file" of data on all loops in each
9 wire center.²⁵ The tool provides by telephone number or circuit id
10 the actual loop make-up including loop length, the type of facility,
11 and the wire gauge by segment (F1 or F2). Additionally CLECs are
12 provided information regarding the presence of load coils and
13 bridged tap. The data supporting this tool is obtained from the
14 same data source as Qwest uses to qualify its retail DSL service.

15 (3) The Raw Loop Data Tool, introduced in December 2000, which
16 provides, on a line-by-line basis, the same data as the bulk wire
17 center tool.²⁶ The CLECs have the option of obtaining this data by
18 address or telephone number. In August 2001 a new option was
19 added, CLECs now can obtain information regarding spare facilities
20 by using an unassigned address query.

21 In addition to these loop make-up tools that were created for unbundled loops,

22 Qwest also offers a MegaBit Qualification, POTS to Unbundled Loop Conversion, and

23 ISDN Qualification tools. Qwest originally built these tools in IMA for resale purposes,

24 but CLECs can also use them to obtain information on unbundled loops. Exhibit-JML-

25 LOOP-2 contains a detailed description of the various loop qualification tools. These

26 The Bulk Wire Center Loop Make-Up Tool is a web based tool and requires
27 electronic certification.

28 The Raw Loop Data Tool is accessible to the CLECs via IMA.

1 ~~tools~~ comply fully with the FCC's requirement that Qwest provide "nondiscriminatory
2 ~~access to the same~~ detailed information about the loop that is available" to itself.²⁷

3 Raw Loop Data tool. The database that supports the IMA Raw Loop Data tool
4 and the Bulk Wire Center tool is the same database that is used to support the DSL
5 qualification tool used by Qwest retail representatives. Additionally, through the ROC
6 Master Test Plan, the third-party tester will validate whether the loop qualification
7 information Qwest provides to CLECs is at parity with information Qwest provides to
8 itself. Specifically, the OSS test will validate that the wholesale tool is in parity with the
9 retail qualification tool and that the results from the wholesale and retail tools are the
10 same. Also, it will verify that the databases that feed the tools use the same source
11 data and are updated in the same time frame.²⁸ Finally, with the tools that Qwest has
12 provided for the CLECs to use, they actually have more information available to them
13 than do the Qwest retail representatives when they sell DSL service to a customer.

14 Based on feedback received during the workshops, Qwest is continually
15 improving the Raw Loop Data tool. For example, Qwest expanded the loop make-up
16 information to include the make-up of spare facilities. This new query option,

27 UNE Remand Order, ¶ 427.

28 Exhibit-JML-LOOP-3 is an excerpt from the ROC Master Test Plan regarding evaluation of Qwest's loop qualification tools.

29 The website for the ICONN database is <http://www.qwest.com/iconn>. See also SGAT § 9.1.2.1.4.

1 Unassigned Address, was introduced in August 2001 as part of IMA Release 8.0. By
2 selecting this option the CLECs can obtain loop make-up information associated with
3 spare facilities that are connected through to the Qwest switch and also spare sub-
4 segments. Qwest has also proactively implemented system enhancements to correct
5 errors uncovered during the workshop process such as displaying loop make-up for
6 lines associated with non-listed and non-published telephone numbers.

7 Wire Center Raw Loop Data tool. Qwest introduced a mechanized bulk wire
8 center loop make-up tool in August 2000. Qwest provides CLECs with access to a web-
9 site where they can obtain a comma delimited batch file that includes all active
10 telephone numbers within a particular wire center as well as detailed raw loop
11 information for each telephone number listed. This provides the CLECs with a means to
12 look at the network infrastructure for an entire wire center. For instance during the loop
13 workshops in other jurisdictions the CLECs asked how they could determine if a
14 community was served by IDLC technology. If the CLEC downloaded the wire center
15 data, the CLEC could sort the file so that premises served by IDLC are grouped
16 together or by a terminal address, F1 or F2, to obtain the loop make-up for a particular
17 community.

18 Qwest Network Changes. Qwest provides CLECs with web-access to the
19 Interconnection Network Disclosure, ICONN database. The ICONN database provides
20 CLECs with a wealth of information regarding the Qwest network such as: central office
21 information and changes, NXX assignments, Remote Terminal Deployment and outside
22 plant build information for funded jobs in excess of \$100,000.²⁰

b. The Local Service Request Form.

CLECs order unbundled loops and other UNEs by completing an LSR and submitting it over one of Qwest's electronic or manual interfaces.³⁰ For each unbundled loop ordered, CLECs must specify the loop type including the Network Channel and Network Channel Interface codes, provide the Connecting Facility Assignment which identifies where the loop should be wired in the central office, provide the desired installation option, and note a desired due date.

Desired Due Dates and Standard Installation Intervals. The CLECs may calculate a due date based on the minimum number of days provided in Exhibit C to the SGAT or the Standard Interval Guide ("SIG") as Qwest's standard installation interval for the specified loop type. The intervals are based on Qwest's extensive experience region-wide in providing unbundled loops. Alternatively, the CLEC may specify a later date (i.e., select a longer installation interval than the standard interval). Exhibit C of the SGAT specifies the installation intervals listed in the following table. All installation intervals are expressed in business days:

³⁰ SGAT §§ 9.2.4.1, 9.2.4.4.

Loop Type	1-8 loops	9-16 loops	17-24 loops	25+ loops
Analog/Voice Grade and xDSL Capable (except loops that need conditioning)	5 days	6 days	7 days	ICB
Quick Loop	3 days	3 days	3 days	ICB
Quick Loop with LNP	3 days	4 days	4 days	ICB
DS-3 Capable	7 days (1-3 loops)	ICB (4 + loops)	ICB (4 + loops)	ICB (4 + loops)
DS-1 Capable	9 days	9 days	9 days	ICB
xDSL Capable Loops that need conditioning	15 days	ICB	ICB	ICB
Fiber/OCn/Other High Capacity	ICB	ICB	ICB	ICB

1
 2 Qwest's standard intervals served as the basis for the creation of the PIDs,
 3 particularly the OP-4 measure, and were discussed extensively during the ROC
 4 Technical Advisory Group ("TAG") meetings.³¹ In fact, the PIDs define a standard

³¹ The FCC has emphasized that performance measures and benchmarks established in a collaborative process with the input of CLECs presumptively reflect the performance requirements CLECs require to have a meaningful opportunity to compete. Application of Verizon New England, Inc., Bell Atlantic Communications, Inc. (d/b/a Verizon Long Distance), NYNEX Long Distance Company (d/b/a Verizon Enterprise Solutions) and Verizon Global Networks Inc., for Authorization to Provide In-Region, InterLATA Services in Massachusetts, Memorandum Opinion and Order, CC Docket No. 01-9, FCC 01-130, ¶ 13 (rel. Dec. 22, 1999) ("Verizon Massachusetts Order") ("The Commission has explained in prior orders that parity and benchmark standards established by state commissions do not represent absolute maximum or minimum levels of performance necessary to satisfy the competitive checklist. Rather, where, as here, these standards are developed through open proceedings with the input from both the incumbent and competing carriers, these standards can represent informed and reliable attempts to objectively approximate whether competing carriers are being served by the incumbent in substantially the same time and

1 interval with reference to the Qwest Standard Interval Guide, the basis for the intervals
2 in Exhibit C of the SGAT. The creation of the PIDs was a collaborative process
3 between Qwest and CLECs. Exhibit JML-LOOP-4 displays the evolution of the
4 installation interval measure, OP-4. This exhibit clearly demonstrates that the Exhibit C
5 intervals were discussed, and, in fact, the installation intervals were changed during the
6 negotiations. For example, there is now no differentiation between high and low density
7 areas and the 2-wire non-loaded intervals mirror the 2-wire analog intervals. During the
8 workshop process, Qwest has made additional CLEC-friendly modifications to the
9 intervals. For example, Qwest reduced the Exhibit C intervals for xDSL-I loops from 10
10 days to align with ISDN capable intervals of 5, 6, and 7 days. Qwest has also created a
11 shorter installation interval for analog loops called Quick Loop. This option provides for
12 a three-day basic installation interval for converting 2-wire analog loops from existing
13 service.³² Effective October 22, 2001, this option is also available for analog loops with

manner, or in a way that provides them a meaningful opportunity to compete")
(footnotes omitted); Application by Bell Atlantic New York for Authorization Under
Section 271 of the Communications Act to Provide In-Region, InterLATA Service
In the State of New York, Memorandum Opinion and Order, CC Docket No. 99-
295, FCC 99-404, 15 FCC Rcd 3953, ¶ 55 (rel. Dec. 22, 1999) ("Bell Atlantic
New York Order") ("At the same time, for functions for which there are no retail
analogues, and for which performance benchmarks have been developed with
the ongoing participation of affected competitors and the BOC, those standards
may well reflect what competitors in the marketplace feel they need in order to
have a meaningful opportunity to compete").

³² This shortened interval is not available for coordinated installations, cooperative testing, or when loops are served by IDLC.

1 number portability. This new offering has been added to Section 9.2.2.9.1.3 and to
2 Exhibit C of the SGAT.

3 The Qwest intervals provide CLECs a meaningful opportunity to compete. The
4 Multi-State Facilitator supported the Qwest intervals.³³

5 Process for Ordering Loop Conditioning. The loop qualification tools described
6 above provide CLECs with information to determine if loop conditioning will be required.
7 In submitting an order, CLECs may indicate that they approve the loop conditioning
8 charge, where needed, by entering a "Y" (for yes) in the space provided for "special
9 construction authorization" in the LSR form.³⁴ When the form contains that indicator
10 and conditioning is necessary for the requested unbundled loop, Qwest will conduct the
11 loop conditioning activities described above, and complete the loop provisioning within
12 the standard 15 business day interval and assess the applicable non-recurring
13 conditioning charge. If the LSR form contains the indicator for loop conditioning but
14 conditioning is not required, then the due date will be consistent with the installation

³³ Multi-State UNE Report, at 49.

³⁴ The FCC has explicitly authorized the ILECs to charge for conditioning requested by a CLEC regardless of the distance from the Central Office. See Local Competition Order, ¶ 382; UNE Remand Order, ¶ 193. This decision was affirmed in federal court in *U S WEST Communications, Inc. v. Hix*, Civil Action No. 97-D-152, Order at 9 – 10 (D. Colo. June 23, 2000.) The Multi-State Facilitator also agreed that charging CLECs for conditioning was appropriate. Multi-State UNE Report at 40.

1 interval based on loop type and the number of loops ordered, as described above, and
2 no conditioning charges will apply.

3 If the CLEC fails to indicate on the LSR form that loop conditioning is approved,
4 but Qwest determines that conditioning is required, then Qwest will inform the CLEC of
5 the need for conditioning. To avoid incurring costs for conditioning loops that were not
6 authorized by the requesting CLEC, the LSR will be rejected and the order cancelled.

7 Firm Order Confirmation ("FOC"). Qwest will provide the CLECs with
8 confirmation of the receipt of their LSR and indicate the due date for the service
9 installation. The process is completed via a Firm Order Confirmation or FOC. The
10 current PIDs require Qwest to provide the CLEC with an FOC for unbundled loops
11 within 24 hours of receiving a valid and complete LSR. Beginning on March 1, 2001,
12 Qwest implemented a two-month trial in Colorado to determine if withholding an FOC
13 for xDSL loops for 72 hours would provide CLECs a more meaningful FOC and a more
14 reliable indication of the installation interval that will apply. During the 72 hours, Qwest
15 determined the availability of facilities to meet the CLEC's request and identified the
16 need for conditioning. Based on the trial and because many CLECs currently
17 purchasing xDSL loops already have a 72-hour FOC as a contractual term, Qwest and
18 CLECs alike agreed that Qwest should move to change the FOC interval for xDSL loops
19 to a 72-hour interval. Qwest is bringing this proposal forth to the ROC PID team for
20 approval.

1 2. **Provisioning**

2 When Qwest provisions an unbundled loop, the same processes and systems,
3 including loop assignment system, are used that Qwest would normally use to provide
4 service for its end users. First, since the unbundled loop is a dedicated facility, it is
5 provisioned using a circuit identifier. Second, the unbundled loop order is routed to the
6 systems that contain inventory information about loop facilities, as well as connecting
7 facility information. Third, the order is handled by employees with experience and the
8 specialized unbundling training to ensure that timely coordination with the CLEC is
9 accomplished when needed.³⁵ Fourth, the unbundled loop flow also allows Qwest to
10 provide data regarding the design of the service to the CLEC via the Design Layout
11 Report ("DLR") process. The CLEC is thus able to obtain data that is available to
12 Qwest employees on how the loop is designed and engineered. The actual installation
13 intervals are documented, coordinated installation is available, and flow charts have
14 been developed so that all parties involved understand the process.³⁶

³⁵ As part of Qwest's efforts to continually train its employees, Qwest released a training video that describes the provisioning process and focuses on coordinated installations and testing. This video has been distributed to all network organizations that provision unbundled loops, and is being used to train all employees involved in the coordinated installation process.

³⁶ See Exhibit JML-LOOP-5.

1 a. **Basic and Coordinated Installation Options**

2 Once Qwest has received the LSR from the CLEC, the order is processed using
3 the same systems that process orders for Qwest retail service offerings, such as private
4 line service or any designed service. When Qwest provisions an unbundled loop, a
5 central office technician must be dispatched to run jumpers connecting the unbundled
6 loop to the CLEC's facilities as specified on the LSR by the CLEC. Additionally, a field
7 technician may need to be dispatched to provision the loop. The provisioning process
8 as shown in Exhibit-JML-LOOP-5 delineates the tasks performed by Qwest personnel to
9 install an unbundled loop. This flow chart, along with the task descriptions, describes
10 the process that Qwest follows when it provisions unbundled loops.

11 Installation of Loops to Existing Customers. For an existing end-user, the Basic
12 Installation option is a "lift and lay" procedure.³⁷ The central office technician "lifts" the
13 loop from its current termination and "lays" it on a new termination connecting to the
14 CLEC.

15 Installation of Loops with Number Portability. Qwest will coordinate the activities
16 associated with unbundled loops and number portability. The provisioning process is
17 depicted in Exhibit-JML-LOOP-6.

18 Installation of New Loops. Installation of new unbundled loops requires a
19 dispatch to the end-user premises. The central office technician and field technician

³⁷ SGAT § 9.2.2.9.1.1.

1 complete circuit wiring and execute the required performance tests to ensure the new
2 circuit meets the required parameter limits.³⁸

3 Installation of Loops When No Compatible Facilities Exist. If the CLEC requests
4 an unbundled loop and no compatible facilities exist, then the following process takes
5 place.³⁹

6 If an engineering job is pending that satisfy the request then Qwest
7 will accept the LSR and inform the CLEC of the ready for service
8 date.

9 If the LSR is requesting a loop to provide an end user with primary
10 voice grade service that would fall under Qwest's Carrier of Last
11 Resort Obligation (COLR), then Qwest will accept the order and
12 build the new facility.

13 If the request is for the unbundling of a loop supported by OLC
14 technology, then Qwest will accept the LSR and process it
15 according to the process defined below.

16 If the LSR does not fall into one of the above categories, then
17 Qwest will reject the order and inform the CLEC that no compatible
18 facilities exist. The CLEC then has an option to request the
19 facilities according to the Special Construction process, just as a
20 retail Qwest customer would.

21 The CLECs were notified of this process through the formal Change
22 Management Process. Exhibit-JML-LOOP-7 is a copy of the notification that was

38 SGAT § 9.2.2.9.2.3.

39 SGAT §§ 9.1.2.1.3, 9.1.2.1.3.1, and 9.1.2.1.3.2.

1 distributed to the CLECs. This process is very similar to Verizon's process that was the
2 FCC recently approved in its order on Verizon's Pennsylvania application.⁴⁰

3 During the workshops, CLECs challenged the above build position and this issue
4 went to impasse in all jurisdictions. In his recommendation to the Commission the
5 Multi-State Facilitator stated:

6 Requiring Qwest to serve indefinitely and ubiquitously as both a
7 financing arm (by taking investment risk under month-to-month
8 UNE leases to CLECs) and as a construction contractor (by being
9 forced to perform the installations required) is not appropriate. Not
10 only will it not promote the goal [of facilities-based competition], it
11 may well hinder it. If CLECs can transfer the economic risks of new
12 construction to Qwest, there is little reason to expect that they will
13 have an incentive to take facilities risks or develop efficient
14 installation capabilities.⁴¹

15 In considering whether checklist item 2 requires Qwest to construct unbundled
16 elements for CLECs where facilities do not exist, the Hearing Commissioner in Colorado
17 also determined that Qwest is not required to construct unbundled elements for CLECs
18 under the Act or FCC rules.⁴²

40 Application of Verizon Pennsylvania Inc., Verizon Long Distance, Verizon Enterprise Solutions, Verizon Global Networks, Inc., and Verizon Select Services Inc. for Authorization to Provide In-Region, InterLATA Services in Pennsylvania, Memorandum Opinion and Order, CC Docket No. 01-138, FCC 01-269, ¶ 91-92 (rel. Sept. 19, 2001) ("Verizon Pennsylvania Order").

41 Multi-State UNE Report at 25.

42 Investigation into U S WEST Communications, Inc.'s Compliance with § 271(e) of the Telecommunications Act of 1996, Decision No. R01-040, Volume 4A Impasse Issues Order, Docket No. 981-107T, at 8-10 (Colo. Aug. 16, 2001).

1 Installation of Loops Provisioned with IDLC Technology. The FCC requires
2 Qwest to unbundle loops that are provisioned with IDLC technology. However, the FCC
3 also acknowledged in the UNE Remand Order that the unbundling of IDLC is difficult
4 and may even be impossible in some circumstances.⁴³ Qwest has made a commitment
5 to provide CLECs access to unbundled loops, even when IDLC technology is deployed,
6 whenever technically feasible. Qwest utilizes the engineering decision tree depicted in
7 Exhibit-JML-LOOP-8 to determine the best method to unbundle these loops. In South
8 Dakota approximately 3.4% of the existing lines are served by IDLC technology and
9 only 1.5% are located in areas where the concentration of IDLC is in excess of 75%. As
10 previously mentioned, using the wire center Raw Loop Data tool, CLECs can determine
11 if a community has a high percentage of IDLC. This information allows CLECs to
12 determine up front if they want to market to a specific community that may be served by
13 IDLC. Additionally, Qwest recently enhanced the Raw Loop Data tool in IMA to include
14 spare facility information, including information on segments, to enhance CLECs' ability
15 to determine if there are spare facilities to serve premises served by IDLC.

16 Facility Assignment. Qwest provisions facilities based on the loop type the CLEC
17 requests. The same assignment process is used for both retail and wholesale.⁴⁴ If

⁴³ UNE Remand Order, ¶ 204 n. 390.

⁴⁴ SGAT § 9.2.2.3.

⁴⁵ SGAT §§ 9.2.2.9.1 to 9.2.2.9.7.

1 compatible facilities are not identified through mechanized means, then Qwest uses an
2 11-step process that includes looking for a Line and Station transfer or recovering
3 defective pairs to locate compatible facilities. The 11-step process is presented in
4 Exhibit-JML-LOOP-9. This is the same process Qwest uses to assign facilities to itself
5 when it must determine if facilities are available to provide service to its end users.

6 Installation Options. Qwest's SGAT offers CLECs six installation options for
7 unbundled loops, each of which is available for both existing customer lines and new
8 customer lines.⁴⁵ These six options are: (1) basic installation; (2) basic installation with
9 performance testing; (3) basic installation with cooperative testing; (4) coordinated
10 installation; (5) coordinated installation with cooperative testing; and (6) project
11 coordinated installation. Regardless of the installation option chosen, Qwest notifies the
12 CLEC when the installation work is complete. The six options are described in further
13 detail below.

14 Basic Installation Options. CLECs may select from among three options for
15 basic (i.e., non-coordinated) installation. First, for the basic installation option, the
16 Qwest central office technician and field technician execute basic performance tests.⁴⁶
17 With basic installation with performance testing, Qwest technicians conduct
18 performance tests, and provides the results to the CLEC after the tests are concluded.⁴⁷

⁴⁶ See SGAT § 9.2.2.9.1.2.

⁴⁷ SGAT §§ 9.2.2.9.2.1-9.2.2.9.1.3.

1 Qwest also agrees to e-mail the test results to CLECs within two business days so that
2 CLECs have a written record of the tests Qwest performs. With basic installation with
3 cooperative testing, after the Qwest technicians perform their performance tests, they
4 contact the CLEC with the results, and the CLEC performs its own loop back
5 acceptance test. The CLEC then accepts the loop, and the parties exchange
6 demarcation information.⁴⁸ To ensure that CLECs do not pay for testing that is not
7 performed, Qwest under its SGAT waives the non-recurring installation charge if Qwest
8 cannot perform the cooperative test, due to Qwest's fault, at the time the loop is turned
9 over to the CLEC. In August 2001, Qwest implemented its process to provide CLECs
10 with the option of receiving test results by e-mail.

11 Coordinated Installation. Coordinated installation and testing are often needed
12 by the CLEC and Qwest to have a seamless installation for the end user customer. The
13 coordinated installation process allows the CLEC to designate a specific appointment
14 time on the date when Qwest will begin the installation of an unbundled loop. The
15 CLEC may request installation outside the standard business hours of 8 a.m. to 5 p.m.
16 on business days, but additional charges apply. CLECs most often request a
17 coordinated installation to coordinate work between Qwest and CLEC when the service
18 is associated with an existing working line, although coordinated installation is also

⁴⁸ SGAT §§ 9.2.2.9.5.

1 available for new customer lines. Coordinated installation enables the CLEC and its
2 customer to plan ahead for minimal service interruption.

3 On the order due date at the appointment time specified by the CLEC, a Qwest
4 employee coordinates activities between the CLEC and Qwest. Qwest calls the CLEC
5 to determine if the CLEC is ready for the service to be transferred. If the CLEC
6 indicates that it is ready, Qwest central office and fieldwork is performed. If the CLEC
7 indicates that it is not ready, Qwest will wait up to 30 minutes from the appointment
8 time. If the CLEC is still not ready, then a new appointment (date and time) is
9 scheduled. If Qwest misses the appointment time by 30 minutes or fails to perform
10 cooperative testing, due to Qwest's fault, Qwest will waive the non-recurring installation
11 charge. Even if Qwest fails to perform testing, Qwest will reschedule the test at no
12 charge to the CLEC if the CLEC still wishes to perform cooperative testing.⁴⁹

13 Qwest recently established a control center dedicated to coordinated
14 installations. The Qwest CLEC Coordination Center ("QCCC") coordinates all
15 installations that involve coordinated start times. Approximately 70 Qwest employees
16 work at the center, all having completed focused training. Since the establishment of
17 the QCCC, Qwest's performance for providing coordinated installations has improved
18 significantly.

⁴⁹ SGAT §§ 9.2.2.9.3, 9.2.2.9.4.

1 CLECs may choose from three different coordinated installation options. The
2 first option is coordinated installation with cooperative testing. This option permits the
3 CLEC to request an appointment time as well as joint testing with Qwest. When a
4 CLEC requests a coordinated installation with cooperative testing, Qwest will perform
5 testing with the CLEC to ensure connectivity between a CLEC's collocated equipment
6 and its network demarcation point.⁵⁰ The cooperative testing is performed after the
7 Qwest installation and testing. As with basic installation with cooperative testing, Qwest
8 provides CLECs with an option to receive the Qwest test results via e-mail.⁵¹

9 The second coordinated installation option is coordinated installation without
10 cooperative testing. If the installation is the conversion of existing service, the CLEC
11 may elect to specify that no dispatch is requested. For an existing customer the
12 conversion process is a "lift and lay" process in the central office. On the due date, at
13 the CLEC-designated appointment time, the Qwest implementor/tester contacts the
14 CLEC to ensure they are ready for the installation. The Qwest technicians complete the
15 installation and work with the Qwest implementor/tester to complete the required
16 performance tests. The CLEC is verbally advised that the installation is complete.⁵²

⁵⁰ See SGAT §§ 9.2.2.9.3.1-9.2.2.9.3.2.

⁵¹ See SGAT §§ 9.2.2.9.2.3 and 9.2.2.9.5.

⁵² See SGAT §§ 9.2.2.9.4.1-9.2.2.9.4.2.

1 to be conditioned. As discussed above, the tools provide the CLEC with loop make-up
2 information that indicates the type of facility, copper loop or pair gain, and the presence
3 of loads and/or bridged tap.

4 Qwest provides for loop conditioning to ensure that CLECs can obtain a loop
5 without load coils and bridged tap even if Qwest does not have an "clean" loop
6 available. For example, when CLECs request a non-loaded 2-wire or 4-wire loop or
7 ADSL compatible loop, the CLEC can ask Qwest to condition existing facilities to meet
8 this specification. As discussed above, CLECs indicate on the LSR that they pre-
9 approve conditioning if needed. Qwest will dispatch a technician to "condition" the loop
10 by removing load coils and excess bridged tap, if necessary, in order to provide the
11 CLEC with a non-loaded loop. Once it is determined that conditioning is technically
12 feasible, there are several steps required to remove a load coil or bridged tap. First, an
13 engineer researches the records to determine where the load coils or a bridged tap are
14 located in the field and issues a work order to the construction forces. Next, a
15 construction technician is dispatched to the field to cut away from the load coil cable
16 stub and re-splice the loop together. Exhibit-JML-LOOP-12 is a flow chart that depicts
17 the tasks associated with conditioning a loop. In January 2001, Qwest reduced the
18 standard interval for conditioning and installing the requested loop to 15 business days.

19 3. Installation Performance Measures and Results

20 Section 251(c)(3) of the Act and FCC decisions establish that Qwest must either
21 (1) provide unbundled elements to CLECs at the same level of quality and timeliness at
22 which Qwest provides analogous services to retail customers, or (2) where there is no

1 retail analogue, provide unbundled elements at a sufficient level of quality and
2 timeliness as to "offer[] an efficient carrier a meaningful opportunity to compete."⁵⁴
3 Qwest, CLECs, and the staffs of the 13 state commissions participating in the RDC
4 process, including the South Dakota Commission staff, have developed extensive
5 performance measurements to measure Qwest's performance in providing unbundled
6 loops to CLECs and in maintaining and repairing unbundled loops for CLECs. Qwest,
7 CLECs, and the state commission staffs established these measures in a collaborative
8 process with the full input of interested CLECs.

9 The performance measures are formally documented in the PIDs. The PIDs
10 include a definition of the measure, the actual formula used to calculate the measure,
11 and any exclusions.⁵⁵ The performance measures for loops primarily fall into the
12 provisioning and maintenance and repair categories. Exhibit-INT-LOOP-13 contains
13 the ROC-PID definitions that pertain to provisioning and maintenance of unbundled
14 loops.

15 On September 25, 2001, the Liberty Consulting Group, an independent third
16 party retained an part of the ROC OSS Test, completed its audit of Qwest's

⁵⁴ SBC Texas Order, ¶ 253; Application of BellSouth Corporation for Provision of In-Region, Inter-LATA Services in Louisiana, Memorandum Opinion and Order, CC Docket No. 98-121, FCC 98-271, 13 FCC Red 20559, ¶ 106 (rel. Oct. 12, 1998) ("BellSouth Louisiana II Order").

⁵⁵ The Affidavit of Michael G. Williams discusses and describes the ROC's performance measures in detail.

1 performance measures and concluded that "the audited performance measures
2 accurately and reliably report actual Qwest performance."⁵⁶

3 Unbundled Loop Ordering and Provisioning Performance Measures. The FCC
4 has determined that there is no direct retail analogue for the ordering and provisioning
5 of unbundled loops.⁵⁷ As a result, Qwest and CLECs participating in the ROC
6 collaborative agreed that Qwest can satisfy each of the following performance
7 measures if it processes orders and provisions unbundled loops, on average, either at
8 parity with its retail ordering and provisioning process, if a retail analogue exists for a
9 particular loop, or in accordance with agreed-upon benchmarks. Again, like the PIDs
10 themselves, the actual benchmarks for various loops types were subject to extensive
11 discussion in the ROC process, with CLECs having a full and equal voice in the
12 establishment of the benchmarks. Qwest is committed to providing unbundled loops
13 within the required intervals and has established processes discussed in this affidavit to

⁵⁶ Final Report on the Audit of Qwest's Performance Measures at 2-3 (Sept. 25, 2001). This audit report is attached as Exhibit MGW-PERF-2 to the Affidavit of Michael G. Williams.

⁵⁷ BellSouth Louisiana II Order, ¶ 198 ("Because the provisioning of unbundled local loops has no retail analogue, [the BOC] must demonstrate that it provides unbundled loops in a manner that offers an efficient carrier a meaningful opportunity to compete").

1 ensure successful provisioning.⁵⁸ The principal installation PIDs for unbundled loops
2 are:

3 OP-3 – Installation Commitments Met. This measure evaluates the
4 extent to which Qwest installs service by the scheduled due date.
5 The performance benchmark for analog loops is 90%.

6 OP-4 – Installation Interval. OP-4 focuses on the average time to
7 install service. The performance benchmark for analog loops, non-
8 loaded (2-wire) loops, and ADSL qualified loops is an interval of six
9 days. For all other loop types, the performance standard is parity
10 with a specified analogous retail service.

11 OP-5 – New Service Installation Quality. This measure evaluates
12 the number of new orders that are trouble free for 30 days following
13 installation. Additionally it focuses on the percentage of new
14 service installations that experienced a trouble report during the
15 period from the installation date to the date the order is posted
16 complete. For all loop types, the performance standard is parity
17 with a specified analogous retail service.

18 OP-6 – Delay Days. OP-6 evaluates the average number of days
19 that late orders are completed beyond the due date. For all loop
20 types, the performance standard is parity with a specified
21 analogous retail service.

22 OP-7 – Coordinated "Hot Cut" Intervals. The OP-7 measure
23 focuses on the time involved to disconnect a customer from Qwest
24 retail service and connect it to the CLEC. This is a diagnostic
25 measure.

26 OP-13 – Coordinated Cuts On Time. OP-13 evaluates the
27 timeliness of coordinated installations (as well as the percent of
28 orders started prior to the scheduled time without the CLEC's
29 approval). The performance benchmark for coordinated cuts
30 completed on time is 95%.

58

The Affidavit of Michael G. Williams discusses Qwest's performance in detail.

1 OP-15 – Interval for Pending Orders Delayed Past Due Date. This
2 measure evaluates the extent to which Qwest's pending orders are late,
3 focusing on the average number of days the pending orders are delayed
4 past the due date, as of the end of the reporting period. This is a
5 diagnostic measure.

6
7 Installation Performance Results. The performance results for each of the OP
8 measures are disaggregated by loop type and zones, where Zone 1 represents a higher
9 density.⁵⁹ For South Dakota, all loops are located in Zone 2. The performance results
10 discussed below have been aggregated to describe performance on a statewide basis.
11 Exhibit-JML-LOOP-14 displays the actual performance results for South Dakota through
12 August. The reports display both the installation and repair results by loop type.

13 Over the four month period ending in August Qwest has on average provisioned
14 analog loops by the due date 94% of the time which exceeds the performance
15 benchmark of 90%. Additionally, this compares favorable to the Qwest retail customers
16 experience. For three out of the four months Qwest has provisioned analog loops in less
17 than the six-day benchmark, with average installation interval of 6.3 days, which is
18 slightly above the benchmark of 6 days.

19 As previously mentioned Qwest tracks the on time performance for coordinated
20 installations, OP-13. In South Dakota, Qwest has delivered coordinated installations on
21 time 100% of the time since April 2001.

⁵⁹ Earlier in the process, the installation intervals were different in high and low density areas. While this disparity in intervals has been eliminated, the performance reporting still reflects this distinction.

1 In addition to being prompt, Qwest's installation of unbundled loops for CLECs is
2 of consistently high quality. For the four months ending in August 2001, analog loop
3 installations for CLECs have been trouble-free over 99% of the time. The trouble-free
4 rate exceeds Qwest's analogous retail service performance.

5 4. Maintenance and Repair

6 Qwest provides maintenance and repair of unbundled loops using a defined
7 maintenance and repair flow.⁶⁰ CLECs report repair problems by issuing repair tickets
8 through the Electronic Bonding-Trouble Administration interface or by calling Qwest's
9 repair center. Qwest creates a trouble ticket reflecting the CLEC's trouble isolation
10 results and processes it using the same systems utilized for trouble tickets for Qwest
11 retail services. The trouble ticket is passed to the appropriate groups to analyze, test
12 and fix any Qwest problems that are identified. The repair technician closes the ticket
13 when the CLEC is notified that the trouble is resolved. Qwest will also advise the CLEC
14 if no trouble is found, or if the problem is not in the Qwest network.

15 Exhibit-JML-LOOP-15 contains a flow chart that delineates the tasks performed
16 by Qwest personnel to maintain and repair unbundled loops. This exhibit also includes
17 a matrix that describes each of the work tasks identified in the flow chart. Qwest follows
18 these steps each time Qwest receives a trouble report from a CLEC.

⁶⁰ See generally SGAT § 9.2.5.

1 **5. Maintenance and Repair Performance Measures and Results**

2 Unbundled Loop Maintenance and Repair Performance Measures. Unlike loop
3 provisioning, the FCC has determined that there is a retail analogue for the repair and
4 maintenance of unbundled loops.⁶¹ Consistent with FCC requirements, Qwest provides
5 repair and maintenance of unbundled loops in substantially the same time and manner
6 as it provides repair services to itself. As a result, Qwest and CLEC participants in the
7 ROC established performance measures for repair and maintenance based upon parity
8 with Qwest retail. These maintenance and repair measures are described below.

9 MR-3 – Out of Service Cleared within 24 Hours. This measure
10 evaluates the timeliness of out service repair for 2-wire analog
11 loops.

12 MR-4 – All Troubles Cleared within 48 Hours. MR-4 focuses on the
13 repair timeliness of all types of trouble cases.

14 MR-5 – All Troubles Cleared within 4 Hours. This measure
15 evaluates the timeliness of repair for 4-wire non-loaded loops, DS-1
16 capable, DS-3 capable loops and OCn capable loops.

17 MR-6 – Mean Time to Restore. MR-6 focuses on how long it takes
18 to restore service.

19 MR-7 – Repair Repeat Report Rate. This measure focuses on the
20 number of repeated trouble reports for the same loop received
21 within 30 days.

22 MR-8 – Trouble Rate. MR-8 evaluates the number of troubles as a
23 percentage of the total number of loops in service.

⁶¹ BellSouth Louisiana II Order, ¶ 145 (repair and maintenance of UNEs should be conducted in the same time and manner as repair and maintenance of retail services).

1 MR-9 – Repair Appointment Met. MR-9 evaluates the extent to
2 which repairs service by the appointment date and time.

3 Qwest has maintained an admirable maintenance and repair record in South
4 Dakota. Unbundled loops receive quick and effective repairs when necessary. At the
5 outset, however, it should be noted that the overall trouble rate for analog loops
6 installed for CLECs has been extremely low, hovering near or below 1% during the past
7 four months ending in August 2001. In each month, the trouble rate was lower than that
8 for Qwest's own retail services. The South Dakota results are better than the 2% figure
9 that the Commission accepted in approving Verizon's request to enter the long-distance
10 market in New York.⁶²

11 When trouble reports are received, they are cleared rapidly. During the past
12 three months ending in August 2001 in South Dakota, Qwest cleared approximately
13 100% of "out of service" trouble reports for unbundled analog loops, the most commonly
14 provided unbundled loop, were cleared within 24 hours, and virtually all troubles were
15 cleared within 48 hours. This performance is better than Qwest's success in clearing
16 trouble reports for its own retail customers. Similarly, the mean restoration time that
17 Qwest provides to CLECs for analog loops is generally shorter than that for its own
18 retail customers.

⁶² Bell Atlantic New York Order, ¶ 300.

1 III. QWEST COMPLIES WITH THE FCC SPECTRUM MANAGEMENT RULES.

2 Spectrum Management is the ability to administer loop plant in such a manner
3 that it enhances the required results in spectrum compatibility. Spectrum compatibility,
4 in general, refers to the ability of loop technology to operate and reside in the same or
5 adjacent binder groups without causing an unacceptable degradation of service from
6 the user's perspective.⁶³

7 There are two industry forums that are working on establishing spectrum
8 standards: the T1E1.4 and the Network Reliability and Interoperability Council
9 ("NRIC"), Focus Group 3. The FCC has charged NRIC specifically with developing a
10 process for spectrum management. NRIC participants have agreed that the loop
11 provider has responsibility to manage spectrum.

12 On January 5, 2001, NRIC approved the American National Standard T1.417,
13 *American National Standard for Telecommunications - Spectrum Management for Loop*
14 *Transmission Systems*. Prior to approval, the American National Standards Institute
15 (ANSI) reviewed the standard to ensure that T1.417 met requirements for due process,
16 consensus and other criteria. Exchange Carriers, Inter-exchange Carriers,
17 Manufacturers and General Interest Organizations all participated in the development of

⁶³ Deployment of Wireline Services Offering Advanced Telecommunications Capability; Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket Nos. 98-147, 96-98, Third Report And Order in CC Docket No. 98-147 Fourth Report And Order in CC Docket No. 96-98, CC Docket Nos. 98-147, 96-98, FCC 99-355, 14 FCC Rcd 20912, ¶ 178 (rel. Dec. 9, 1999) ("Line Sharing Order").

1 the T1.417 Standard. T1.417 established nine Spectrum Management Classes
2 ("SMCs") and three Technology Specific Guidelines ("TSG") classes. The NRIC has
3 recommended the application of these SMCs and TSG classes for spectrum
4 management.

5 Anticipating T1.417 approval, the industry requested that the Common Language
6 Technical Advisory Group ("TAG") establish Network Channel Interface ("NCI") codes to
7 enable ordering unbundled loops using Spectrum Management Class identification.

8 The Common Language TAG has approved NCI codes corresponding to the twelve
9 T1.417 classes. Exhibit JML-LOOP-16 displays the industry standard SMC NCI codes.

10 Qwest's processes for addressing spectrum issues is set forth in Section 9.2.6 of the
11 SGAT. These provisions comply with the FCC Line Sharing Order.⁶⁴ For example,

12 Qwest requires CLECs to provide Qwest with the NC/NCI codes when they order
13 advanced services. CLECs, however, are required to provide this information pursuant
14 to the FCC's Line Sharing Order:

15 Some incumbent LECs argue that they require certain information
16 on a requested deployment in order to be able to assess properly
17 the prospects of the deployment significantly degrading the
18 performance of other services. In the *Advanced Services First*
19 *Report and Order*, we required incumbent LECs to disclose to
20 requesting carriers information with respect to the number of loops
21 using advanced services technology within the binder and type of
22 technology deployed on those loops.

⁶⁴ Line Sharing Order, ¶ 204.

* * *

Consistent with the information disclosure requirements that we applied to incumbent LECs in the *Advanced Services First Report and Order*, we agree that competitive LECs must provide to incumbent LECs information on the type of technology that they seek to deploy, including Spectrum Class information where a competitive LEC asserts that the technology it seeks to deploy fits within the generic PSD mask. We further agree that competitive LECs must provide this information in notifying the incumbent LEC of any proposed change in the advanced services technology that the carrier uses on the loop, so that the incumbent LEC can correct its records and anticipate the effect that the change may have on other services in the same or adjacent binder groups.⁶⁵

Consistent with the Line Sharing Order, Qwest commits to protect and respect the confidentiality of CLEC NC/NCI codes and to use such information solely for spectrum-related purposes, such as providing information to carriers in the event of claims of spectral interference.

CLECs have challenged this position in other 271 workshops, and the issue went to impasse. Based on the FCC requirement and the existing ordering process, the Multi-State Facilitator supported the Qwest position that the CLECs supply Qwest with the NC/NCI codes. The Facilitator stated, however, that Qwest must treat this information as confidential. Qwest agreed, and it has modified SGAT Sections 9.2.6.2.1 and 9.2.6.2.2 to reinforce its commitment to maintain the confidentiality of this information.

⁶⁵ Line Sharing Order, ¶ 204 (footnotes omitted).

1 If a provider's end user experiences interference problems, Qwest will provide
2 binder group information to the CLEC.⁶⁶ In the trouble isolation process, the CLEC will
3 test the pairs in the binder group and identify the spectrum class causing the problem.
4 Qwest will then provide the CLEC with names of the providers and the spectrum
5 classes in the effected binder group. Qwest does not "resolve" spectrum disputes
6 between carriers. Rather, the carrier experiencing the disturbance is responsible for
7 contacting other carriers to determine whose service is causing the interference.
8 Likewise, Qwest does not dictate what action must be taken to resolve the disturbance.
9 Once the causing carrier is identified, the interfering carrier (Qwest or CLEC) must bring
10 its facilities into compliance with spectrum standards.

11 The FCC has identified T1s as known disturbers.⁶⁷ Qwest's preferred technology
12 is no longer analog T1 technology. Nevertheless, Qwest has long-standing engineering
13 practices whereby it segregates T1 facilities from other facilities by locating them in the
14 outside of a binder group or, if necessary to avoid interference, in a separate binder
15 group. If a T1 is identified as causing interference, Qwest commits to address the
16 interference as spelled out in SGAT Section 9.2.6.4. Based on the Multi-State
17 Facilitator's recommendation, Qwest revised this provision to clearly state that Qwest
18 will place T1s into binder groups to minimize interference and will replace interfering T1

⁶⁶ See SGAT §§ 9.2.6.5-9.2.6.6.

⁶⁷ Line Sharing Order, ¶ 214.

1 facilities with less disturbing technology if the T1s are identified as causing a
2 disturbance.⁶⁸ This commitment is fully compliant with FCC guidance on managing T1
3 facilities.⁶⁹

4 When carriers deploy a Digital Subscriber Line Access Multiplexer ("DSLAM"), it
5 is possible that the remote deployment will interfere with other carriers' services. The
6 NRIC is currently considering standards for remote deployment of DSLAMs, and the
7 NRIC recommendations are expected to be released in first quarter, 2002. Qwest
8 commits to comply with the NRIC recommendations. In the interim, however, Qwest
9 has committed to minimize any interference from potential remote deployment of Qwest
10 DSLAMs. In the Multi-State proceeding, the Facilitator determined that it was
11 reasonable to wait until NRIC and the FCC issue their determinations before imposing
12 final standards for remote deployment of DSL:

13 Rhythms and AT&T have not shown good reason to act in advance
14 of the NRIC report that the FCC expects. The FCC has essentially
15 said that it wants to be informed by that report before it acts. There
16 is certainly no basis for concluding that, on the record before us, we
17 should step in where that angel fears to tread.⁷⁰

68 Multi-State UNE Report at 58.

69 See Line Sharing Order ¶ 218.

70 Multi-State UNE Report at 58.

1 The Facilitator nevertheless recommended SGAT amendments to address any
2 potential interference from remote deployments in the interim. Qwest agrees to
3 implement this interim process and, therefore, incorporated the Facilitator's
4 recommendation in SGAT Section 9.2.6.9.

5 Qwest complies with all FCC orders and rules relating to spectrum management.
6 Qwest commits to handle spectrum issues in a manner that provides CLECs the ability
7 to deploy advanced services technology through the use of industry standards, and
8 Qwest has developed appropriate practices with regard to spectrum management. As
9 the FCC makes national determinations of other standards, Qwest will incorporate these
10 changes into the SGAT and into Qwest's processes and procedures.

11 **IV. QWEST COMPLIES WITH FCC NID REQUIREMENTS**

12 Qwest provides nondiscriminatory access to the Network Interface Device
13 ("NID"). Qwest allows requesting CLECs to connect their own loop facilities to on-
14 premises wiring through Qwest's NID or at any other technically feasible point.
15 Pursuant to Section 9.5 of its SGAT, Qwest has a concrete and specific legal obligation
16 to provide CLECs with access to unbundled NIDs.

17 Access to NIDS. Qwest provides access to NIDs as part of its unbundled loop
18 and subloop offerings. The FCC defines the NID network element as "any means of
19 interconnection of end-user customer premises wiring to the incumbent LEC's

1 distribution plant, such as a cross connect device used for that purpose."⁷¹ An ILEC is
2 required to "permit a requesting telecommunications carrier to connect its own loop
3 facilities to on-premises wiring through the incumbent LEC's network interface device, or
4 at any other technically feasible point."⁷² In the UNE Remand Order, the FCC clarified
5 that when a CLEC receives an unbundled NID from Qwest, that unbundled NID includes
6 "all features, functions, and capabilities of the facilities used to connect the loop
7 distribution plant to the customer premises wiring, regardless of the particular design of
8 the NID mechanism."⁷³ The FCC intentionally defined the NID element in a broad,
9 flexible, and technology-neutral manner, to accommodate "design variations among the
10 hardware interfaces" and to allow for any future technologies to be included in the
11 definition.⁷⁴

12 Qwest provides NIDs in full compliance with FCC rulings. In fact, Qwest's SGAT
13 definition of the NID incorporates much of the FCC's language verbatim:

14 The Qwest NID is defined as any means of interconnection of on-
15 premises wiring and Qwest's distribution plant, such as cross
16 connect device used for that purpose. Specifically, the NID is a
17 single-line termination device or that portion of a multiple-line
18 termination device required to terminate a single line or circuit at a
19 premises The NID carries with it all features, functions and

71 47 C.F.R. § 51.319(b).

72 *Id.*

73 UNE Remand Order, ¶ 233.

74 UNE Remand Order, ¶ 234.

1 capabilities of the facilities used to connect the Loop distribution
2 Plant to the customer premises wiring, regardless of the design of
3 the particular NID mechanism.⁷⁵

4 The SGAT definition includes terminals that are not Demarcation Points. Qwest
5 has also added language requiring all carriers to follow relevant provisions of the
6 National Electric Safety Code and the National Electric Code when accessing NIDs so
7 as to protect CLEC workers, end users, and Qwest property and personnel from foreign
8 voltage.⁷⁶

9 Only one CLEC, thus far, has questioned Qwest's definition of the NID, and this
10 CLEC has done so in twelve states in which Section 271 workshops have been held.
11 To date, no commission has accepted that CLEC's objections to Qwest's NID definition.

12 Qwest has a concrete legal obligation to provide CLECs with access to
13 unbundled NIDs; that obligation satisfies all FCC requirements.

14 NID Connections. Qwest permits CLECs to interconnect at either the protector
15 field or the customer side of the NID, space permitting. Additionally, Qwest permits
16 CLECs to perform their own wiring at the NID.⁷⁷ These provisions offer CLECs greater
17 flexibility than that offered by any other BOC that has received Section 271 approval.

75 SGAT § 9.5.1.

76 SGAT § 9.5.2.3 and NESC § 315, and NEC § 800-30.

77 SGAT § 9.5.2.5.

1 NID and the Demarcation Point. Qwest's definition of the NID includes terminals
2 that are not Demarcation Points. If the NID is not the Demarcation Point, as may be the
3 case in a multi-tenant environment, and the CLEC wishes to access the NID and the
4 subloop, then the CLEC must follow the process to access subloops.⁷⁸ Regardless
5 whether the NID is a Demarcation Point, the CLEC can perform diagnostic and other
6 necessary testing at the NID.

7 Type of NIDs Offered by Qwest. Qwest offers three types of NIDs. A Simple
8 NID is typically found in single family residences or small businesses. A Smart NID
9 provides special testing capabilities from the far end. Finally, the MTE NID is
10 associated with Multi-Tenant environments. The MTE terminal is considered a NID
11 from an ordering and processing perspective when it serves as a demarcation point
12 between Qwest facilities and customer wiring.

13 No Space Available on the Qwest NID. If space is unavailable on Qwest's NID,
14 the CLEC may install its own NID or ask Qwest to install a stand-alone NID. When a
15 CLEC installs its own NID, the CLEC may connect its NID to the Qwest NID by placing
16 a cross connect between the two.⁷⁹ Another option available to CLECs if no space is
17 available on Qwest's NID is to connect to the Qwest loop or inside wire at any other

78 Access to subloops is addressed in the Affidavit of Karen A. Stewart on
Emerging Services. Qwest provides nondiscriminatory access to subloops under
Section 9.3 of the SGAT.

79 SGAT § 9.5.2.1.

1 technically feasible location.⁸⁰ CLECs are not permitted to disconnect the Qwest facility
2 from the protector side of the NID because such a disconnect would leave Qwest's
3 distribution facility unprotected, in violation of the National Electric Safety Code and the
4 National Electric Code. A single CLEC disagrees with this requirement and has taken
5 this issue to impasse in all states where 271 workshops have taken place. To date,
6 Qwest's position has prevailed in all states issuing recommendations.⁸¹

7 Modular NIDs. CLECs also have the option of ordering a modular NID to replace
8 the current NID to allow easier access for testing or to cooperate in a reconfiguration
9 that is necessary to create a single point of interface.⁸² In this case, Qwest will install a
10 new NID and charge the CLEC the applicable time and material charges.

11 NID Ownership. Qwest retains full ownership of its NID and its associated cables
12 and wires on the central office or protector side of the NID.⁸³ However, Qwest allows
13 CLECs to use all features and functionality of the Qwest NID, including any protection
14 mechanisms, test capabilities, or other capabilities now existing or as they may exist in

80 SGAT § 9.5.2.1; see also 47 C.F.R. § 319.(b).

81 E.g., Multi-State UNE Report at 74.

82 SGAT § 9.5.3.1.

83 SGAT § 9.5.2.2.

1 the future.⁸⁴ Service wire terminations belonging to Qwest and terminated at the NID
2 must remain in place.

3 In South Dakota Qwest has provisioned 1,392 NIDs in conjunction with
4 unbundled loops. At this time, no South Dakota CLEC has requested access to a
5 stand-alone NID. However, Qwest stands ready to meet any requests that are made.

6 Summary. Qwest complies with the NID requirements of Section
7 271(c)(2)(B)(iv). Qwest provides unbundled NIDs in a nondiscriminatory manner to
8 CLECs in South Dakota. Qwest provides NIDs in a manner that affords CLECs a
9 meaningful opportunity to compete in South Dakota. The Commission should find that
10 Qwest satisfies these aspects of Checklist Item 4.

11 **V. QWEST PROVIDES LINE SPLITTING AND LOOP SPLITTING IN**
12 **COMPLIANCE WITH THE FCC RULES.**

13 Qwest complies with FCC requirements regarding access to the high frequency
14 portion of the unbundled loop, otherwise commonly known as line sharing, and was the
15 first ILEC in the country to offer this service. In addition, Qwest complies with FCC
16 requirements regarding access to line splitting. These offerings are currently available
17 to CLECs under Qwest's SGAT as well as under individually negotiated interconnection
18 agreements.

19 Types of Splitting Arrangements. Qwest offers five types of "splitting"
20 arrangements. The following chart identifies the various types of splitting arrangements

84 SGAT § 9.5.2.1.2.

Type Splitting	Voice/Low End	Data/High End
Resale	Qwest Resale Voice	Qwest Resale DSL
Line Sharing	Qwest Voice	CLEC DSL
Line Splitting	CLEC UNE-P Voice	CLEC DSL or Qwest DSL
Loop Splitting	CLEC Unbundled Loop	CLEC DSL
EEL Splitting	CLEC EEL	CLEC DSL

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Line sharing is addressed in the Affidavit of Karen A. Stewart on Emerging Services. Resale of Qwest telecommunications services is addressed in the Affidavit of Lori A. Simpson on Checklist Item 14. This affidavit addresses line, loop and EEL splitting.

Line Splitting. Line splitting occurs when CLECs provide an end user both the voice and data service utilizing an unbundled network element platform ("UNE-P") for voice service.⁸⁵ This can be contrasted to "line sharing," which occurs when the CLEC provides the voice service and a CLEC provides the data service.⁸⁶ Line splitting permits CLECs to offer advanced data services simultaneously with an existing UNE-P by using the frequency range above the voice band on the copper loop. Qwest made line splitting available to CLECs on July 1, 2001; however, to date, no CLEC in the 14-state Qwest region has ordered line splitting.

Loop Splitting. By contrast, loop splitting is an arrangement in which Qwest plays a minor role. Loop splitting is an arrangement where a CLEC leases an

⁸⁵ SBC Texas Order, ¶ 330.

⁸⁶ SBC Texas Order, ¶ 324.

1 unbundled loop from Qwest and, by itself or in partnership with a data LEC, provides
2 both voice and data service on the same loop. Exhibit JML-LOOP-17 provides a
3 network diagram of loop splitting. Qwest made loop splitting available to CLECs on
4 August 3, 2001; to date, no CLEC has ordered loop splitting. To Qwest's knowledge, no
5 other ILEC offers loop splitting.

6 EEL Splitting. EEL splitting enables a CLEC to provide both voice and data over
7 a copper EEL facility. EEL splitting is available via the Special Request Process. To
8 Qwest's knowledge, no other ILEC offers this service. To date, no CLEC has requested
9 EEL Splitting.

10 Qwest currently provides or stands ready to provide line splitting and loop
11 splitting to CLECs in a timely and nondiscriminatory manner across its region.

12 **A. Qwest Makes Line Splitting Available**

13 The FCC recently clarified that ILECs must offer "line splitting," which means that
14 the ILEC "must permit competing carriers providing voice service using the UNE-
15 platform to either self-provision necessary equipment or partner with a competitive data
16 carrier provide xDSL service on the same line."⁸⁷ Line splitting provides a CLEC with

⁸⁷ See Deployment of Wireline Services Offering Advanced Telecommunications Capability; Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, Third Report And Order On Reconsideration in CC Docket No. 98-147; Fourth Report And Order On Reconsideration in CC Docket No. 96-98; Third Further Notice Of Proposed Rulemaking in CC Docket No. 98-147; Sixth Further Notice Of Proposed Rulemaking in CC Docket No. 96-98, CC Docket Nos. 98-147, 96-98, FCC 01-26, 16 FCC Red 2101, ¶ 16 (rel. Jan. 19, 2001) ("Line Sharing Reconsideration Order").

1 the opportunity to offer advanced data services simultaneously with an existing UNE-P
2 by using the frequency range above the voice band of the copper loop.⁸⁸ Since July 1,
3 2001, Qwest has been facilitating "line splitting" arrangements under Section 9.21 of the
4 SGAT. Section 9.21 permits competing carriers to provide voice service using the UNE-
5 platform to either self-provision necessary equipment or partner with a competitive data
6 carrier to provide xDSL service on the same line, consistent with the FCC's Line Sharing
7 Reconsideration Order.⁸⁹

8 Ordering Line Splitting. Qwest provides CLECs with access to line splitting,
9 under Section 9.21 of its SGAT. Qwest allows CLECs or DLECs to place POTS
10 splitters, a device to separate the high and low frequencies of the loop, in Qwest's wire
11 centers to provide line splitting.⁹⁰ Once POTS splitters are deployed in the central office
12 serving the end user, the CLEC submits a Local Service Request ("LSR") to add line
13 splitting to an existing UNE-P line. The line splitting LSR is based on industry standards
14 promulgated by the Order and Billing Forum, a national industry forum that creates and

88 See SGAT § 9.21.1.

89 Line Sharing Reconsideration Order, ¶ 16.

90 Qwest is not obligated to provide Qwest-owned POTS splitters to a CLEC or DLEC, and currently does not do so. SBC Texas Order, ¶ 327 ("The Commission has never exercised its legislative rulemaking authority under section 251(d)(2) to require incumbent LECs to provide access to the splitter, and the incumbent LECs therefore have no current obligation to make the splitter available."); Line Sharing Reconsideration Order, ¶ 25.

1 maintains LSR ordering guidelines. The OBF guidelines are the de facto standard for
2 ordering.

3 Customer of Record. When a CLEC and a DLEC engage in line splitting, Qwest
4 requires the CLEC and DLEC to determine who will be the customer of record.⁹¹ The
5 customer of record can be either the CLEC or the DLEC. Qwest has agreed that the
6 party that is not the customer of record with Qwest can act as the "authorized agent" on
7 behalf of the customer of record as long as the customer of record manages the
8 arrangement.

9 Conditioning for Line Splitting. The CLEC/DLEC may provide any xDSL services
10 that are compatible with CLEC UNE-P-POTS service.⁹² To facilitate line splitting, Qwest
11 performs requested conditioning of shared loops to remove load coils and excess
12 bridged taps. If an end-user customer wishes to change its voice provider and still
13 retain Qwest retail DSL, Qwest will allow a CLEC that provides service over UNE-P to
14 retain the Qwest DSL service, although Qwest is not legally obligated to do so. The
15 FCC clearly stated in its order approving SBC's application to provide interLATA service
16 in Texas that under its rules "the incumbent LEC has no obligation to provide xDSL

⁹¹ For purposes of this section of my affidavit, the term "CLEC" refers to the voice service provider and "DLEC" refers to the advanced service provider. The CLEC and the DLEC may be the same entity.

⁹² See SGAT § 9.21.2.1.3. In the future, additional services may be used by DLEC to the extent those services are deemed acceptable for UNE-P line splitting deployment in accordance with FCC rules. *Id.*

1 service over this UNE-P carrier loop."⁹³ The FCC recently confirmed that Qwest has no
2 obligation to provide xDSL service when it is no longer the voice provider.⁹⁴

3 Provisioning Process. Qwest has also developed a process flow for line splitting.
4 Qwest follows the same process as it does for line sharing, except in the line splitting
5 scenario the voice connection is provided by the CLEC and data transmission is
6 provided by the DLEC. The CLEC and the DLEC may be the same entity.

7 Installation Interval. The installation interval for UNE-P-POTS with line splitting is
8 based on the number of lines installed at the same end user premises. Just as for line
9 sharing, the standard installation intervals are as follows:

<u>Number of Lines</u>	<u>Installation Interval (No Loop Conditioning Required)</u>	<u>Installation Interval (Loop Conditioning Required)</u>
1 to 8	3 business days	15 business days
9-16	3 business days	ICB
17 -24	3 business days	ICB
25 +	ICB	ICB

10 Line Splitting Scenarios. In a collaborative process with the CLECs, Qwest has
11 developed several scenarios to define the role of each company: Qwest, the CLEC
12

93 SBC Texas Order, ¶ 330.

94 Line Sharing Reconsideration Order, ¶ 16 ("We deny, however, AT&T's request that the Commission clarify that incumbent LECs must continue to provide xDSL services in the event customers choose to obtain voice service from a competing carrier on the same line because we find that the Line Sharing Order contained no such requirement").

1 voice provider, and the DLEC data provider. Exhibit JML-LOOP-18 depicts these
2 different scenarios.

3 B. Qwest Makes Loop Splitting Available

4 Loop Splitting. Line splitting can technically be provisioned using an unbundled
5 loop. In this scenario, referred to as "loop splitting," the CLEC or the DLEC would lease
6 the loop from Qwest and then provide the another carrier with access to the same loop.
7 Alternatively, a single CLEC may provision both the voice and data over the same loop.
8 The CLEC or DLEC would need to insert a POTS splitter into the loop to separate the
9 voice and data traffic. Qwest began making loop splitting available on August 3, 2001,
10 but has received no orders to date.

11 Loop Splitting Scenarios. In a collaborative process, Qwest and the CLECs also
12 have developed loop splitting scenarios to identify the roles of each company: Qwest,
13 the CLEC and the DLEC. Exhibit JML-LOOP-19 displays the different loop splitting
14 scenarios.

15 Ordering process. There are currently no industry CDP standards for loop
16 splitting. As a result, the collaborative efforts between Qwest and CLECs in Qwest's
17 industry forum meetings charted new territory. Together, Qwest and CLECs developed
18 the loop splitting process.

19 C. Qwest Makes EEL Splitting Available

20 EEL Splitting. In other states, CLECs requested that Qwest provide EEL
21 Splitting. An EEL consists of transport between two Qwest central offices, including
22 and an unbundled loop. The primary purpose of an EEL is to provide CLECs with

1 means to provision service without having collocation in the end user's serving wire
2 center. The very nature of DSL service, however, requires that the end user customer
3 be located within approximately 18,000 feet from the central office or DSLAM.
4 Therefore, in an EEL splitting scenario, the two central offices and the customer's
5 premises would all need to be within approximately a three-mile radius to provide
6 service.

7 Because of this restriction, Qwest did not view EEL splitting as a viable or high
8 demand form of splitting. When Qwest asked CLECs for information on their
9 foreseeable demand for EEL splitting, no CLEC provided information. CLECs have
10 opposed Qwest's provision of this service on a special request basis, arguing that
11 because it is technically feasible to split the EEL at the serving wire center and then
12 provision the DSL service, Qwest should provide EEL splitting as a standard product. If
13 splitting occurs in this manner, however, then it is loop splitting with added unbundled
14 dedicated interoffice transport. Additionally, as Ms. Stewart testifies in her Affidavit on
15 Checklist Item 2, access to unbundled network elements, there are no EELs in service
16 in South Dakota. Qwest is required to offer products to meet current or "reasonably
17 foreseeable" demand for the product.⁹⁵ Qwest is not aware of any demand for EEL
18 splitting. Nevertheless, Qwest has agreed to provide CLECs the ability to request EEL

95

SBC Texas Order, ¶ 98; BellSouth Louisiana II Order, ¶¶ 106, 116, 139.

1 splitting using the Special Request Process. If demand develops to a point where a
2 standard product offering is warranted, Qwest will establish a standard offering.

3 Summary. Qwest provides CLECs with the ability to share a UNE-P
4 arrangement for the purposes of providing voice and data. Qwest also has
5 implemented loop splitting. Qwest's SGAT demonstrates that Qwest has a concrete
6 legal obligation to make line and loop splitting available to CLECs. Qwest has
7 developed processes and procedures to provide line and loop splitting, and Qwest
8 stands ready to provide South Dakota CLECs with these services. Qwest will also
9 provide EEL splitting according to the Special Request Process. For these reasons,
10 Qwest provides line splitting and loop splitting in accordance with FCC requirements.

11 **VI. SUMMARY AND CONCLUSION**

12 As demonstrated in this affidavit, Qwest provides CLECs with nondiscriminatory
13 access to unbundled loops, including NIDs and line splitting, in compliance with
14 Sections 251 and 271 of the 1996 Act and the FCC's requirements thereunder. The
15 Commission should find that Qwest satisfies Checklist Item 4 of Section 271 of the Act
16 in South Dakota

Being first duly sworn upon oath, I, Jean Liston, declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct to the best of my knowledge, information, and belief.

Executed on this 4th day of October, 2001.

Jean Liston
[Jean Liston]

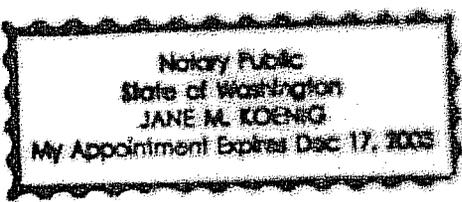
STATE OF WASHINGTON

COUNTY OF KING

Subscribed and sworn to before me this 4th day of October, 2001.

Jane M. Koeng
Notary Public

My Commission Expires:
DEC 17, 2003



BEFORE THE
PUBLIC UTILITIES COMMISSION
STATE OF SOUTH DAKOTA

IN THE MATTER OF THE INVESTIGATION) DOCKET TC 01-
INTO QWEST CORPORATION'S)
COMPLIANCE WITH SECTION 271 (C) OF THE)
TELECOMMUNICATIONS ACT OF 1996)

QWEST CORPORATION'S

EXHIBITS to the AFFIDAVIT

OF

JEAN M. LISTON

CHECKLIST ITEM 4 – UNBUNDLED LOOPS, NIDs and LINE SPLITTING

October 24, 2001

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QUALIFICATIONS OF JEAN M. LISTON

My name is Jean M. Liston. My business address is 1600 Seventh Avenue, Room 3003, Seattle, WA. 98191. I am a Director, Public Policy and Law, at Qwest Corporation ("Qwest"). I am the 271 Director responsible for Checklist Item 4 - Unbundled Loops. In that position, I am a member of the Qwest Unbundled Loop Process Team and have the responsibility to represent Qwest in formal 271 proceedings which are associated with unbundled loops, including xDSL compatible loops, Network Interface Devices ("NIDs") and line splitting.

My formal education includes a Bachelor of Arts degree in mathematics from Kean College in New Jersey and a Masters of Science in Business from Stevens Institute of Technology in Hoboken, New Jersey.

In 1977, I was hired as a member of the technical staff at Bell Laboratories. In 1981, I accepted a transfer to Pacific Bell Northwest and have worked for Qwest and its predecessor companies (including U S WEST Communications, Inc. and Pacific Bell Northwest) since then. My work has included various staff and line positions in the Network Services organization, in retail marketing, in regulatory product and pricing strategy, and in witness support. In these roles, I have testified before the Wyoming Commission in the areas of Extended Area Service and long distance service.

For the past three years, I have been involved with 271 issues. For two years I was a witness support manager in the areas of resale, public interest and unbundled loops. My experience has allowed me to develop an expertise in several Section 271

checklist items, including unbundled loops. For the past year I have served as the 271 witness for unbundled loops, line splitting, and NIDs. In these roles I have worked closely with the Qwest wholesale organization to develop and implement the procedures set forth in this affidavit. I have testified in the Section 271 workshops and hearings in Colorado, Arizona, Oregon, and Washington, and in the multi-state proceeding involving state commissions from Idaho, Iowa, Montana, New Mexico, North Dakota, Utah and Wyoming. Each of these workshop processes was collaborative, conducted on an open basis with full, active and equal participation by competitive local exchange carriers ("CLECs") and state commission staffs.

Loop Make-Up Information

Background

In early 1999 Qwest began the development process of an IMA/EDI Loop Qualification Tool. The IMA 4.2 Release in October 1999 included the pre-order ADSL Loop Qualification Tool. At the time the tool was released there were approximately 6,000 xDSL loops in service in all 14 states of Qwest territory.

In December 1999 Rhythms filed a CICMP user request to upgrade the ADSL Qualification Tool to include additional loop make-up information. The CLEC community prioritized the request as non-critical and the upgrade was scheduled for IMA Release 6.0. Additionally, Qwest agreed to deploy a bulk wire-center raw loop data report in July of 2000.

All of this activity took place prior to the FCC UNE Remand¹ mandating that LECs provide loop make-up information and placing the qualification responsibility on the CLECs. As promised Qwest deployed the wire center tool in July and the IMA raw Loop Data Tool in IMA Release 6.0 in December 2000.

¹ FCC UNE Remand at § 427

In addition IMA also has a pre-order transaction for POTS to Unbundled Loop conversions. Supplementing the tools specifically for unbundled loops, the CLECs have access via IMA/EDI pre-order functions to perform a MegaBit Qualification and an ISDN Qualification. Although these tools were established primarily for resale purposes, the CLECs can use them for additional information.

The Tools

As mentioned there are five electronic tools available to the CLECs, see Exhibit JML-LOOP-2a. I will review each one separately.

ADSL Loop Qualification Tool

- Access via an IMA/EDI pre-order transaction.
- One telephone number or street address per request, Exhibit JML-LOOP-2b is a copy of the IMA request screen.
- The data sources include LFACS and PREMIS.
- The CLECs have the option of qualifying working telephone number or address and can also request a search for multiple lines.
- If the CLECs check "Qualify working telephone numbers", they will receive the loop make-up for the working service. If the CLEC asked for multiple lines then the system will look for lines to the specified address.
- If the CLECs do not check "Qualify working telephone numbers", the system will look for "spare" facilities that qualify for ADSL.
- The qualification process uses ANSI ADSL standards and provides CLECs with a "Y" or "N" indicator to say "yes" the loop qualifies for ADSL or "no" it does not. Exhibit JML-LOOP-2c is a copy of the ADSL Response screen.
- The response screen also provides the following loop make-up: Telephone number or circuit id, if the system is returning spare information it will have a fictitious circuit id, Loop length, bridge tap length, the type of facility- copper or pair gain, the load type and the insertion loss calculated at 196 kilohertz frequency with 135 ohm termination

Wire Center Raw Loop Data Tool

- Access via www.ecom.uswest.com and a digital certificate. Exhibit JML-LOOP-2d is a copy of the product announcement that describes how to obtain the digital certificate and down loaded the wire center information.
- One wire center at a time can be selected from the alphabetized list of CLLI codes.
- The data source is the Loop Qualification database, the same database used to qualify Qwest retail customers for DSL services.
- The CLECs have access to working lines and non-working telephone numbers.
- The data is in an ASCII text file that is comma delimited and can be downloaded into the CLEC's database or files.
- The loop make-up information includes: Wire Center CLLI Code, Cable Name, Pair Name, Terminal Address, MLT Distance, Segment (F1, F2), Sub Segment (1 of F1), Segment Length, Segment Gauge, Bridge Tap length by segment, Bridge Tap Offset Distance, Load Coil Type, and Pair Gain Type.

IMA Raw Loop Data Tool

- Access via a pre-order IMA/EDI transaction.
- Three query options are available: telephone number, assigned address or unassigned address
- Up to 24 Telephone numbers or 1 Assigned or Unassigned address can be requested at one time.
- If an address is chosen IMA will show raw loop data for up to 24 circuits that are associated with that address, working or non-working. Exhibit JML-LOOP-2e is a copy of the Telephone number, the Address, and the Unassigned Address screen requests.
- The data source is the Loop Qualification database, the same database used for Qwest DSL qualification.
- The CLECs have access to working telephone numbers and spare facilities.
 - Exhibit JML-LOOP-2f is a copy of the response screens. The RLD tool provides the CLECs with the following loop make-up information: Wire Center CLLI Code, Cable Name, Pair Name, Terminal Address, MLT Distance, Segment (F1, F2), Sub Segment (1 of F1), Segment Length, Segment Gauge, Bridge Tap length by segment, Bridge Tap Offset Distance, Load Coil Type, number of loads and Pair Gain Type.

Exhibit JML-LOOP-2g is a chart that displays the differences in the three unbundled loop tools. As previously mentioned there are two additional IMA tools: the MegaBit Qualification and ISDN Qualification pre-order transactions.

Convert POTS to Unbundled Loop

- Access via an IMA /EDI pre-order transaction.
- Requires address
- The data source is LFACS and PREMIS
- The response screen indicates if the facilities are served on Copper or Pair Gain and the "loading" of the facility. Exhibit JML-LOOP-2h is a copy of the response screen.

MegaBit Qualification

- Access via an IMA /EDI pre-order transaction.
- Requires address or telephone number.
- The data source is Loop Qualification database.
- The response screen provides a "Y" or "N", yes or no, for MegaBit and MegaBit Select. If a "N(o)" response is returned a short explanation is provided such as does not qualify: pair gain. Exhibit JML-LOOP-2i is a copy of the response screen.
- This tool mirrors the Qwest retail tool for MegaBit qualifications. The CLECs receive the same messages as the Qwest retail channel receives.

ISDN Qualification

- Access via an IMA /EDI pre-order transaction.
- Request by address.
- CLEC has the ability to ask for multiple lines.
- This tool looks for available ISDN facilities.
- The response screen will display the number of facilities found. If ISDN capable facilities were found the Description field will indicate qualified facilities found.

including information regarding pair gain, if applicable. Exhibit JML- LOOP-2] is a copy of the response screen.

Loop Make-up and Qualification Tools

IMA/EDI Pre-order Tools	M ¹	Q ²	IMA Rel
ADSL Loop Qualification	X	X	4.2
Raw Loop Data Tool (RLD)	X		6.0
Convert POTS to UB Loop	*		
MegaBit Qualification	*	X	5.0
ISDN Qualification		X	6.0

Web-based – ecom	M	Q	Date
Wire Center Raw Loop Data	X		7/00

* Provides limited information.

¹ M = Loop Make-up

² Q = Qualification

Unbundled ADSL Loop Qualification Facility Availability Request Wizard

Number of DSL Lines Requested: Qualify working telephone numbers

Address Request | TN Request

Validated Addresses:

10765 W 35 PL WHEAT RIDGE CO, 80033, DNV

BAND	SASF	SASN				
10765		W 35 PL				
ROOM	FLOOR	BLDG	ANN	ROUTE	BOX	
SALOC	SAST	SAZC				
WHEAT RIDGE	CO	80033				
CALASAP						
CO (DNV) - Denver	Select supplemental					

Previous | Email | Start Over | Next >> | Clear | End

Application Window

Unbundled ADSL Loop Qualification Facility Availability Request Wizard

Unbundled ADSL Loop Qualification Response

Number of Lines Requested: Qualify working telephone numbers

No. of Lines	Result	Description
1	Y	Circuit ID: 69.LDda.11910...ms; Loop Length: 11,139; BT length: 1.66; Insert Loss: 38.50; Metal: 0.0000; Wire: 1.00; Loop Type: NONE;

Print Preview E-mail Start Over << PREVIOUS

Minimize Maximize Close

SUBJECT: Raw Loop Data (RLD) Tool

Target Audience: CLEC

Qwest is please to announce the availability of Raw Loop Data (RLD). Following are the specifics regarding this data and it's availability to you.

PRODUCT DEFINITION

The RLD tool provides data in bulk format to the Co-Providers about loop make-up characteristics at the wire center level. The data includes CLLI code, load coil, bridged tap, wire gauge, cable and pair make-up, and similar information on a loop-by-loop basis.

A web-site maintained by Qwest is available where Co-Providers may access the RLD tool. To gain access to the web-site, Co-Providers must obtain a digital certificate associated with the RLD process from Qwest. The RLD tool is presented in an ASCII text file and can be downloaded to an Excel format or database built by the Co-Provider. Once you have obtained the digital certificate the RLD data will be available through the following web-site: <http://ecom.uswest.com>.

Data available via the RLD tool will be loaded/refreshed every month on a wire center basis. There will be approximately 60-wire centers loaded/refreshed each business day with a 20-business day cycle to load/refresh the data for all of Qwest's wire centers.

All information referenced will be provided as is, with any errors and omissions that exist in Qwest's records. Co-Providers may access the RLD tool 7 days a week, 24 hours a day, and is available immediately to Co-Providers as they become eligible with a digital certificate.

Qwest will provide the following data via the RLD tool:

DATA FIELDS:

- ◆ Telephone Number
- ◆ Wire Center CLLI Code
- ◆ Cable Name
- ◆ Pair Name
- ◆ Terminal Address
- ◆ Segment (e.g. F1, F2, etc.)
- ◆ Sub Segment (e.g. segment 1 of F1)
- ◆ Segment Length
- ◆ Gauge
- ◆ Bridge-Tap Length
- ◆ Length Units
- ◆ Bridge-Tap Offset Distance
- ◆ Load Coil Type
- ◆ Pair Gain
- ◆ Composition of loop
- ◆ MLT Distance
- ◆ House Number
- ◆ Street
- ◆ Unit
- ◆ Floor
- ◆ Building
- ◆ Community (e.g., City)
- ◆ State Code

RAW DATA EXAMPLE:

The RLD tool contains the following data entries. If a specific data item is not available or does not pertain to a particular loop, then the field entry will be blank. For instance, if the loop only consists of F1 and F2, then the entry fields that correspond to F3 through F9 would be empty. Commas separate field entries and an empty field is designated by no spaces or entries.

FILE_CREATION_DATE,WIRE_CENTER_CLLI,TELEPHONE_NUMBER,F1_CABLE_NAME,F2_CABLE_NAME,F3_CABLE_NAME,F4_CABLE_NAME,F5_CABLE_NAME,F6_CABLE_NAME,F7_CABLE_NAME,F8_CABLE_NAME,F9_CABLE_NAME,F1_PAIR_NUMBER,F2_PAIR_NUMBER,F3_PAIR_NUMBER,F4_PAIR_NUMBER,F5_PAIR_NUMBER,F6_PAIR_NUMBER,F7_PAIR_NUMBER,F8_PAIR_NUMBER,F9_PAIR_NUMBER,F1_TERMINAL_ID,F2_TERMINAL_ID,F3_TERMINAL_ID,F4_TERMINAL_ID,F5_TERMINAL_ID,F6_TERMINAL_ID,F7_TERMINAL_ID,F8_TERMINAL_ID,F9_TERMINAL_ID,F1_MAKE_UP_DESC,F2_MAKE_UP_DESC,F3_MAKE_UP_DESC,F4_MAKE_UP_DESC,F5_MAKE_UP_DESC,F6_MAKE_UP_DESC,F7_MAKE_UP_DESC,F8_MAKE_UP_DESC,F9_MAKE_UP_DESC,F1_BRIDGE_TAP_OFFSET_DESC,F2_BRIDGE_TAP_OFFSET_DESC,F3_BRIDGE_TAP_OFFSET_DESC,F4_BRIDGE_TAP_OFFSET_DESC,F5_BRIDGE_TAP_OFFSET_DESC,F6_BRIDGE_TAP_OFFSET_DESC,F7_BRIDGE_TAP_OFFSET_DESC,F8_BRIDGE_TAP_OFFSET_DESC,F9_BRIDGE_TAP_OFFSET_DESC,F1_LOAD_COIL_TYPE,F2_LOAD_COIL_TYPE,F3_LOAD_COIL_TYPE,F4_LOAD_COIL_TYPE,F5_LOAD_COIL_TYPE,F6_LOAD_COIL_TYPE,F7_LOAD_COIL_TYPE,F8_LOAD_COIL_TYPE,F9_LOAD_COIL_TYPE,F1_PAIR_GAIN_TYPE,F2_PAIR_GAIN_TYPE,F3_PAIR_GAIN_TYPE,F4_PAIR_GAIN_TYPE,F5_PAIR_GAIN_TYPE,F6_PAIR_GAIN_TYPE,F7_PAIR_GAIN_TYPE,F8_PAIR_GAIN_TYPE,F9_PAIR_GAIN_TYPE,MLT_DISTANCE,HOUSE_NUMBER,STREET_NAME,UNIT,FLOOR,BUILDING,COMMUNITY,STATE_CODE

The loop make-up txt file would appear as follows. the commas separate the fields:

- ◆ 06-19-2000,CHNDAZMA,,25,1330P,,,,,1086,773,,,,,X 1330 W PALO VERDE DR,F 1843 W ALAMO DR,,,,,24NL 23.810kf ,24NL 7.016kf,,,,,H88,,,,,NO_PG,NO_PG,,,,,34800,1846 W ALAMO DR,,,,,
- ◆ 06-19-2000,CHNDAZMA,,25,1330P,,,,,1086,773,,,,,X 1330 W PALO VERDE DR,F 1843 W ALAMO DR,,,,,24NL 7.016kf,,,,,H88,,,,,NO_PG,NO_PG,,,,,34800,1846 W ALAMO DR,,,,,
- ◆ 06-19-2000,CHNDAZMA,,IPG1,1960D,,,,,1825,355,,,,,X 1960 N DOBSON RD,2019 W LEMON TREE PL 1174,,,,,26NL 0.760kf 19NL 0.020kf ,26NL 0.165kf 24NL 0.802kf,,,,,ISLC96,NO_PG,,,,,2019,W LEMON TREE PL,1174,,,,,

Data from the RLD tool can be downloaded into an Excel spreadsheet or a database provided by the Co-Provider. The format of the text files will remain constant.

ACCESSING THE RLD TOOL FOR LOOP MAKE-UP INFORMATION

The following is the process Co-Providers must follow to gain access to the web-site where the RLD tool resides.

1. To access the bulk wire center loop make-up data, the Co-Provider must have a digital certificate. A digital certificate is required for each Co-Provider employee that will be requesting the loop make-up data. If a Co-Provider employee does not currently have a digital certificate, they can obtain one by requesting an id from their Account Manager.
2. The Co-Provider must provide their Account Manager with the names and telephone numbers of their employees who will be accessing the loop make-up files. The employees' e-mail address is optional.
3. The Account Manager must establish the necessary permissions for the Co-Provider to access the loop make-up files.
4. Once the permissions are established, the Co-Provider employees can access the loop make-up data by accessing <http://ecom.uswest.com> and then clicking on the "Get a Certificate" link. (NOTE: When the Co-Provider employee does subsequent log ins, they will choose the "I have a Certificate" link.) This will display all of the sites available to that Co-Provider employee including the Raw Loop Data, "rld", site.
5. Click on the Raw Loop Data site and a list of all the Qwest wire centers in alphabetical order by CLLI will be returned.
6. Click on the desired CLLI and the raw data file for that wire center will be returned.
7. The file is an ASCII text file that can be downloaded by "cut" and "paste" commands. The Co-Providers can download and save the files according to their preferences.

Raw Loop Data Query By Address

Mail Loop Data Query By Address

Query by Address

Validate Address

No Validated Address

BAND FACT CASE

ROOM FLOOR BLOCK UNIT ZIP CODE ZIP

SALOC LAST

CALASAM

Print Results Cancel SEARCH Home Help Search

Warning: Packet Window

Raw Loop Data Query By Telephone Number

Raw Loop Data Query By ID:

Query by ID:

WTN: AS Title:

WTN Query List:

Phone No	Ext	Area	City	State	Zip
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Warning: Apple Window

Raw Loop Data Query By Unassigned Address

Raw Loop Data Query By Unassigned Address

Query Address

Unassigned Address

UNASSIGNED ADDRESS

CAPR SANC SAMP

SASD SASM

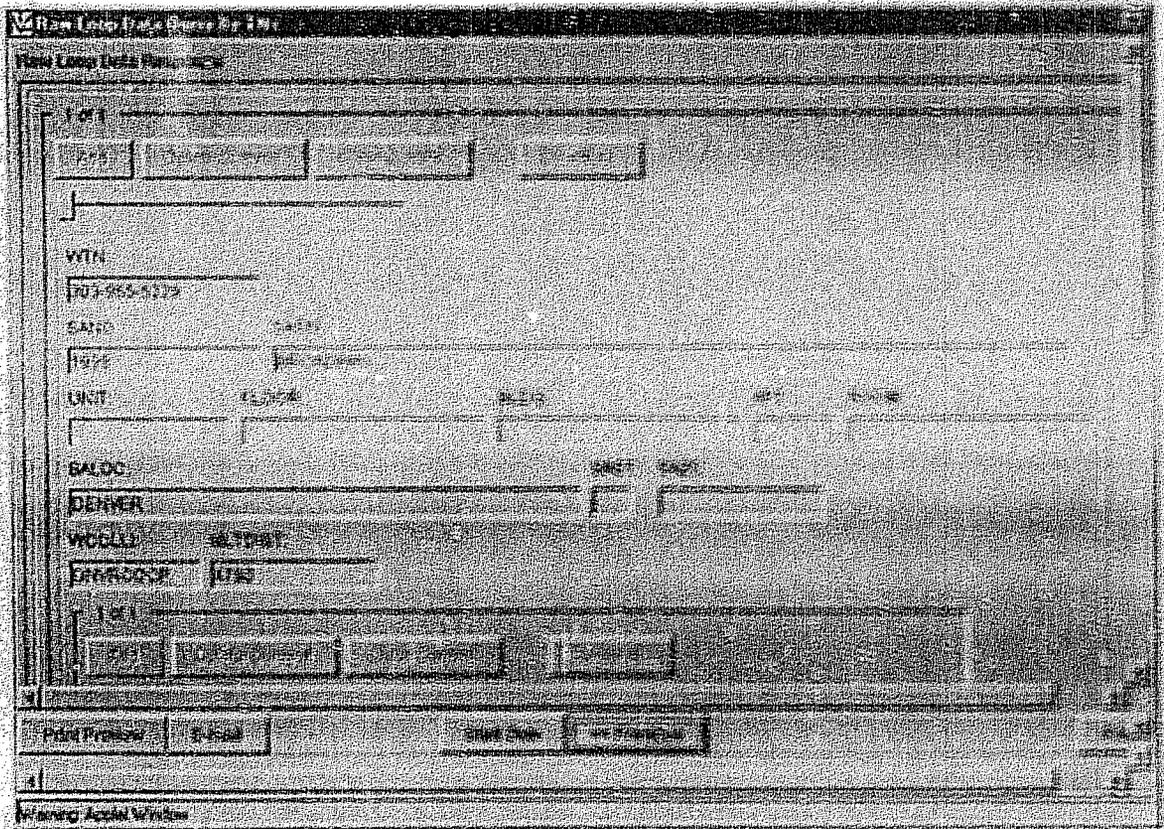
REGIONAL STATE COUNTY CITY

CITY: STATE

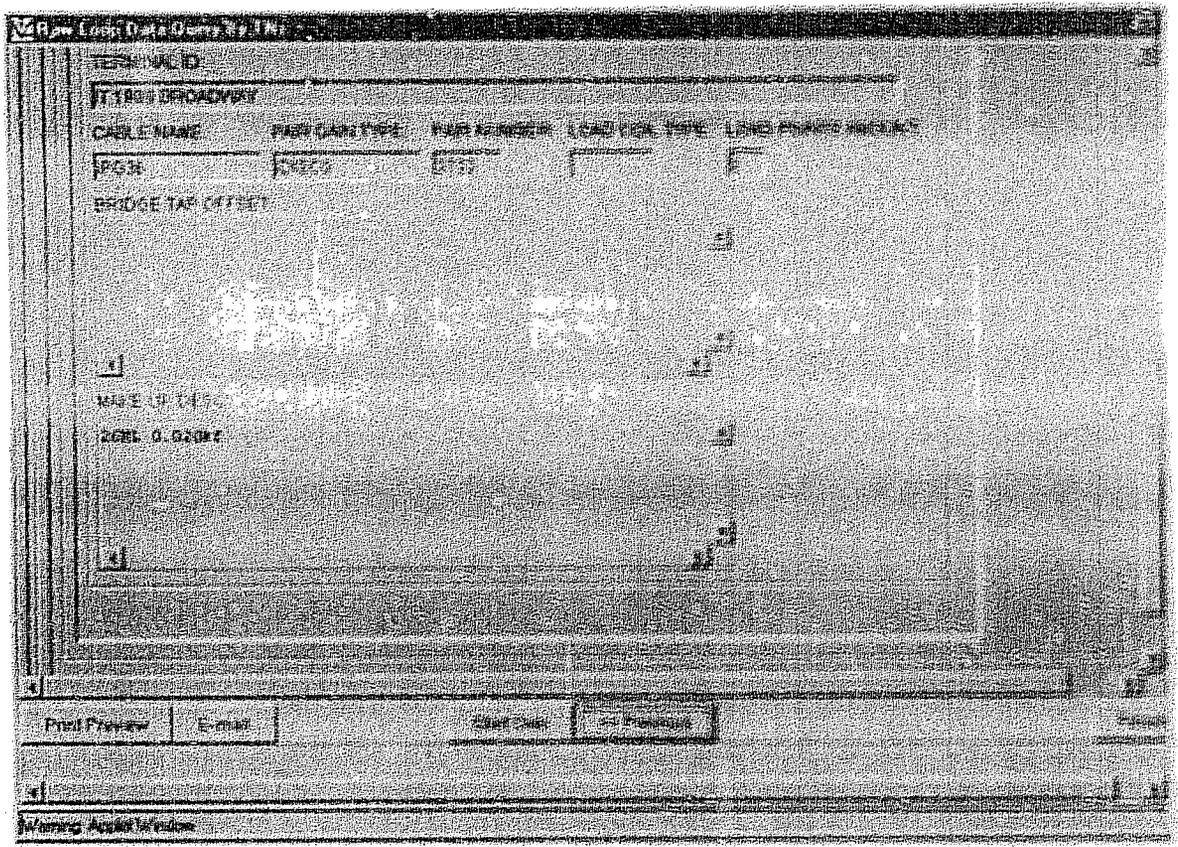
CALIFORNIA

Submit Cancel No Data Refresh Help

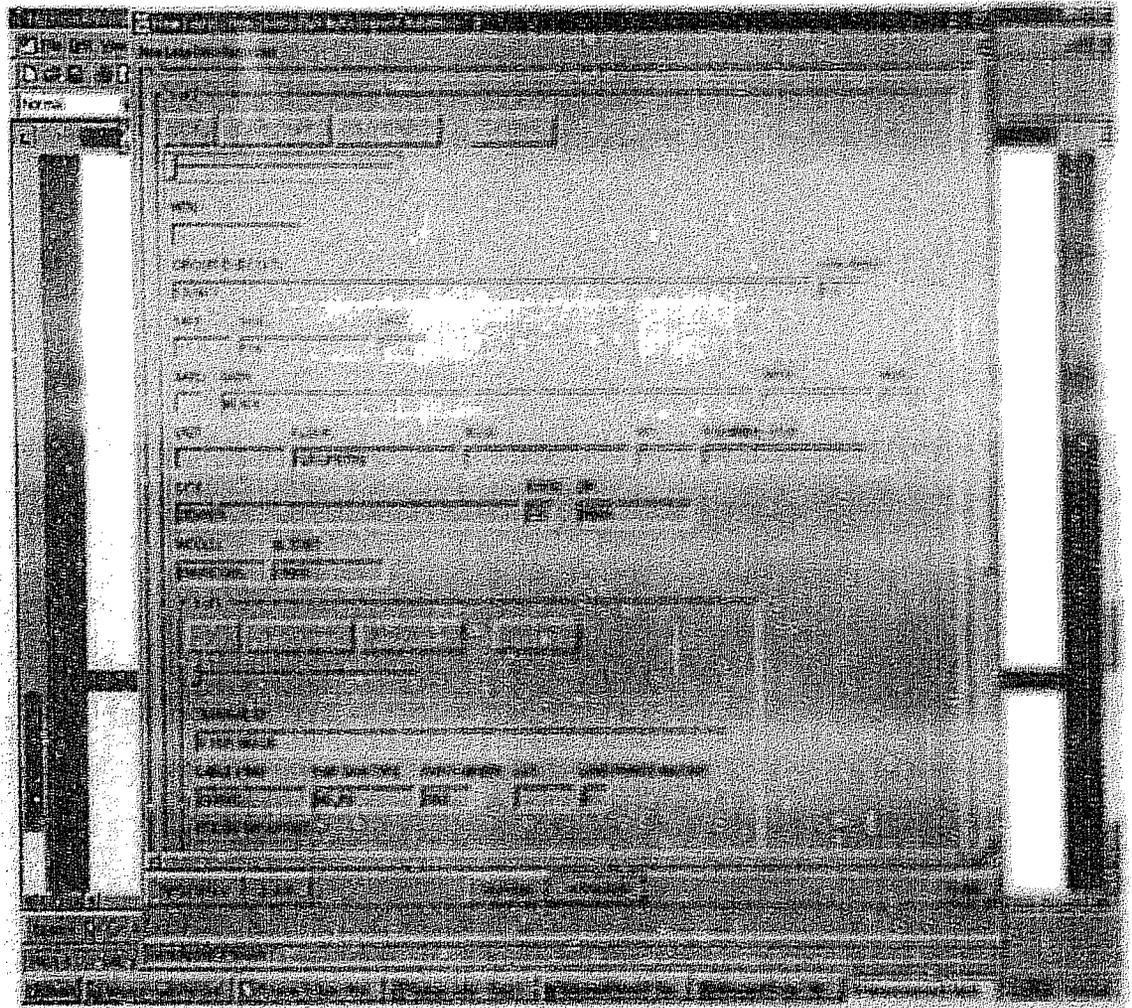
Loop Raw Data Response Screens



Loop Raw Data Response Screens



Raw Loop Data Unassigned By Address Response Screen



Loop Make-Up Tools

	RAW LOOP DATA TOOL By TN / ADDR	RAW LOOP DATA TOOL By Wire Center	ADSL LOOP QUAL TOOL By TN / ADDR
TOOL SOURCE	Via IMA	Via ecom Web Site	Via IMA
DATA Source	Loop Qual Database	Loop Qual Database	LFACS, PMSDB
Date Made Available	December 2000	July 2000	October 2000
Data Available	Includes existing service	Includes existing service	Includes existing TDS and open facilities
Request Type	Up to 24 TNs or 1 address per request	Approximate Wire Center selection	1 TN or address per request
Loop Make-Up			
	Telephone Number	Telephone Number	Telephone Number or CNR ID
	Wire Center OLI Code	Wire Center OLI Code	
	Cable Name Pair Name	Cable Name Pair Name	
	Terminal Address	Terminal Address	The Number of Pairs
	MLT Distance and segment lengths	MLT Distance and segment lengths	Loop Length in Miles
	Composition of Loop	Composition of Loop	Class of Facilities
	Lead Coil Type	Lead Coil Type	The Length
	Par Gain Type	Par Gain Type	
	Segment (F1, F2)	Segment (F1, F2)	
	Sub Segment (1 of F1)	Sub Segment (1 of F1)	
	Segment Length	Segment Length	
	Segment Gauge	Segment Gauge	
	Bridge Tap Length by segment	Bridge Tap Length	Bridge Tap Lengths Shifts
	Bridge Tap Offset Distance	Bridge Tap Offset Distance	Insertion Loss

Case No. 10-00000
Case Description

State of the Affairs of John H. Linn
Checked Item 4 - Unbonded Lic. AGOs and Lic. Selling
Cover Sheet to Linn, JH, AGO-10
Page 1, October 24, 2011

Convert POTS to Unbundled Loop Request

Loop Characteristic: **D - Does not matter**

Address Request

Validated Addresses:

**14545 SE 56TH,
BELLEVUE
WA, 98006, BLVU**

SAPR: SANO: SASP:
14545

SASD: SASN: SATI: SASI:
SE 56TH

ROOM: FLOOR: BLDG: AIN: ROUTE: DRG:

SALOC: SASI: SASE:
BELLEVUE WA 98006

CALA/SAGA:
**WA (BLVU) - Bellevue and
NW Washington**

TN Request

Telephone No.: **425-643-1526**

Zip Code: **98006**

CALA/SAGA: **WA (BLVU) - Bellevue and NW
Washington**

Circuit ID Request

Circuit ID:

Local Service Office: **425643**

Zip 98006
Code:

CALA/SAGA: WA (BL/VI) - Bellevue and NW
Washington

Convert POTS to Unbundled Loop Response

Number 2
Of Lines:

Circuit Id	Served On	Loading	Can be Moved to
425 373-1872	COPPER	LOADED	No Move Required
425 643-1526	COPPER	NONE	No Move Required

Great Britain

Disclose and Distribute Only to Great Britain, Products or Services Available Only in WA.

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Entered in the Archives of Jean M. Larson

Checklist Item 4 - Unintended Loss, HCNs and Low Solubility

Case Sheet for Serial 100-1000-0

Page 1, October 24, 1983

MegaBit Facilities Request

TN: 425-643-1526

Validated Addresses:

14545 SE 56TH, BELLEVUE
WA, 98006, BLVU

SAPR: SANO: SASF:

14545

SASD: SASN:

SE 56TH

SATH:

SASB:

ROOM:

FLOOR:

BLDG:

ANN:

ROUTE:

MON:

SALOC:

SAST:

SAZC:

BELLEVUE

WA

98006

CALA/SAGA:

WA (BLVU) - Bellevue and NW
Washington

MegaBit Facility Response

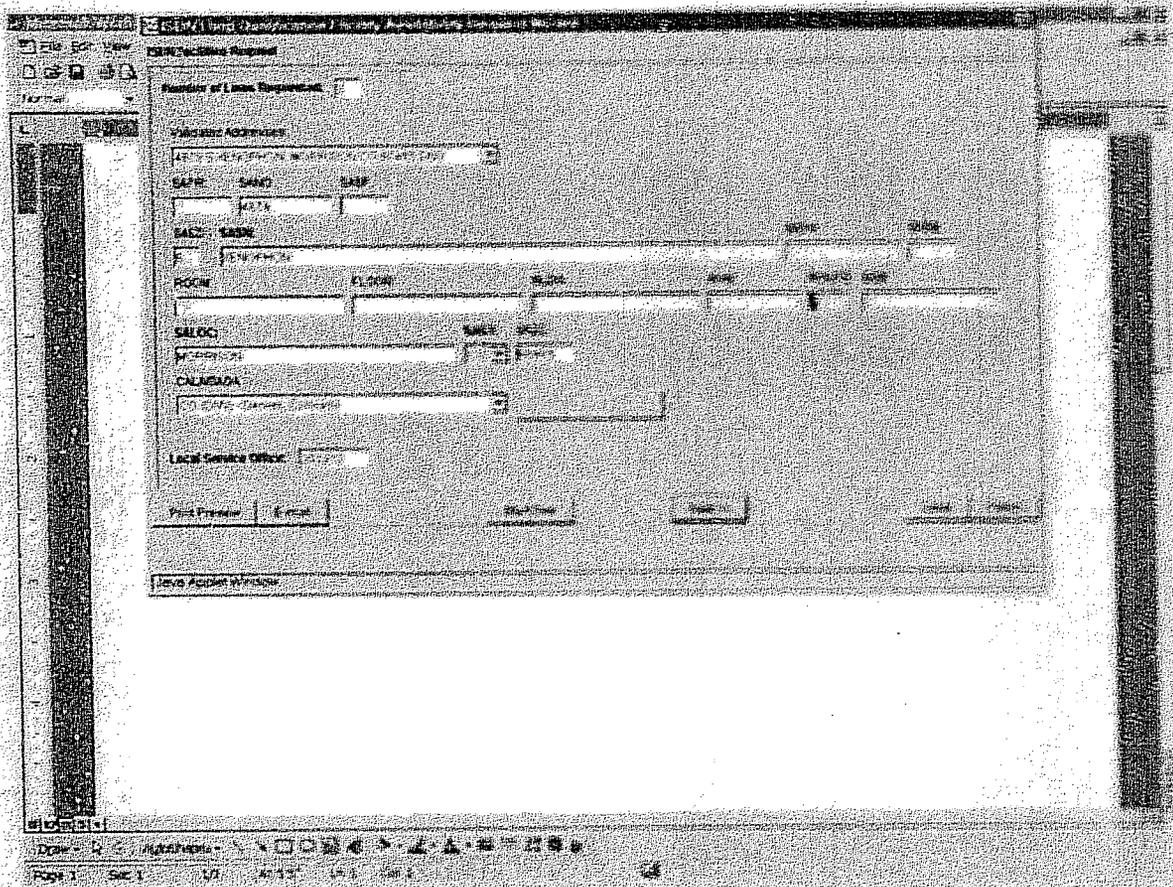
TN: 425-643-1526

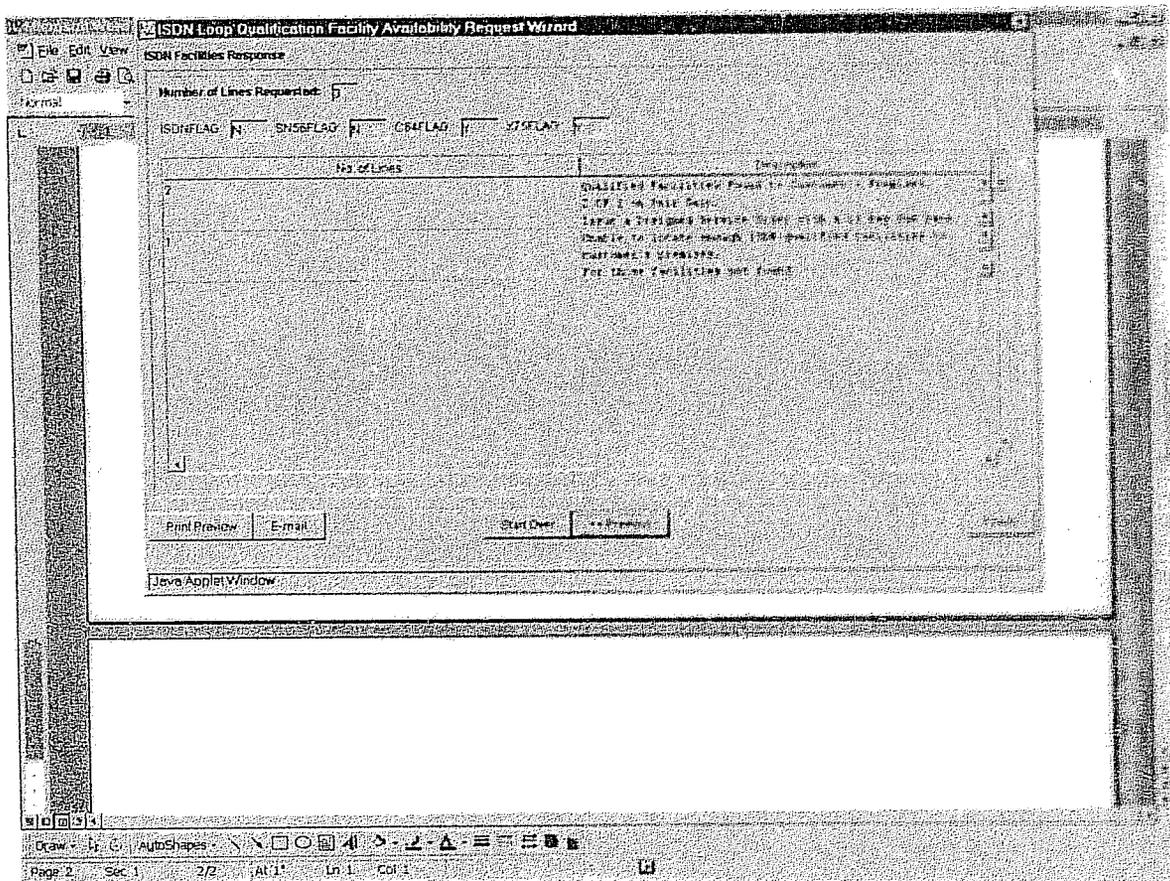
qualified	megaBitType	MegaBitServices	Reason
N	MegaBit		Loop does not qualify for MegaBit Services because loop is too high.
N	MegaBit Select		Loop does not qualify for MegaBit Services because loop is too high.

Qwest Private

Disclose and Distribute Solely to Qwest Employees, Partners or Affiliates Having a Need to Know.

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Docket TC 01-
Qwest Corporation
Exhibits to the Affidavit of Jean M. Liston
Checklist Item 4 – Unbundled Loop, NIDs and Line Splitting
Cover Sheet for Exhibit JML-LOOP-3
Page 1, October 24, 2001

The Regional Oversight Committee (ROC) 3rd Party Test

Qwest
OSS Evaluation Project
Master Test Plan

Final Release

Version 3.1

Submitted by:

kpmg *Consulting*

November 17, 2000

4/60

17. Final report

12.7 Loop Qualification Process "Parity by Design" Evaluation

In addition to the above elements of this POP Functionality test, KPMG Consulting will perform an evaluation of the Loop Qualification process Qwest provides to wholesale customers compared to the Loop Qualification process it provides to its own retail customers to determine if parity exists in the design, implementation and use thereof. This evaluation will examine the wholesale and retail end-to-end processes, the results of the same queries made to the two processes, and all additional avenues of follow-up or recourse available to either wholesale or retail operations or both. This evaluation should answer the following questions:

- Does a wholesale loop qualification transaction result in the same information as a retail transaction for the same loop?
- Does the loop qualification information come from the same database (directly or indirectly) with the same frequency of update?
- Are the wholesale responses returned in accordance with benchmarks set?
- Are any differences in the sub-processes or remedial options available in the retail loop qualification process versus the wholesale process?

12.8 POP Manual Order Processing Evaluation**12.8.1 Description**

The POP Manual Order Processing Evaluation is a comprehensive review of the methods and procedures used to handle orders that have been manually submitted or require manual intervention by Qwest during order processing. Operational analysis techniques will be used to conduct this test. This test will include a review of the procedures in place to plan for and manage projected growth in order processing.

12.8.2 Objective

The objective of this test is to validate the processes and procedures used to support manual submission of orders for service and to ensure that these procedures are being uniformly followed by Qwest's personnel across the three regions.

ROC PID Working Version 1.0 Dated February 16, 2000
 Reflects Qwest's initial position regarding the appropriate performance standard based on type of loop.

OP-3 – OP-6:

Analog Loop	Parity with retail Res and Bus POTS with dispatch
Non-loaded Loop (2-wire)	Parity with retail ISDN BRI (designated)
Non-loaded Loop (4-wire)	Parity with retail DSL (designated)
DSL-capable Loop	Parity with retail DSL (designated)
ISDN-capable Loop	Parity with retail ISDN BRI (designated)
ADSL-qualified Loop	Parity with retail Megabit (non-designated) with dispatch

ROC PID Working Version 1.3 Dated July 5, 2000
 Reflects ROC TAG agreed to (as specified in the summary document and not disputed by parties) change to a benchmark for OP-3 and OP-4 for 3 types of loops.

OP-3:

Analog Loop	90%
Non-loaded Loop (2-wire)	90%
Non-loaded Loop (4-wire)	Parity with retail DSL (designated)
DSL-capable Loop	Parity with retail DSL (designated)
ISDN-capable Loop	Parity with retail ISDN BRI (designated)
ADSL-qualified Loop	90%

OP-4:

Analog Loop	High Density 6 days Low Density 7 days
Non-loaded Loop (2-wire)	High Density 6 days Low Density 7 days
Non-loaded Loop (4-wire)	Parity with retail DSL (designated)
DSL-capable Loop	Parity with retail DSL (designated)
ISDN-capable Loop	Parity with retail ISDN BRI (designated)
ADSL-qualified Loop	High Density 6 days Low Density 7 days

ROC PID Working Version 2.1B Dated January 15, 2001
 Reflects Qwest agreed to elimination of density (zone) distinction in benchmark for 3 types of loops.

OP-4:

Analog Loop	6 days
Non-loaded Loop (2-wire)	6 days
Non-loaded Loop (4-wire)	Parity with retail DSL (designated)
DSL-capable Loop	Parity with retail DSL (designated)
ISDN-capable Loop	Parity with retail ISDN BRI (designated)
ADSL-qualified Loop	6 days

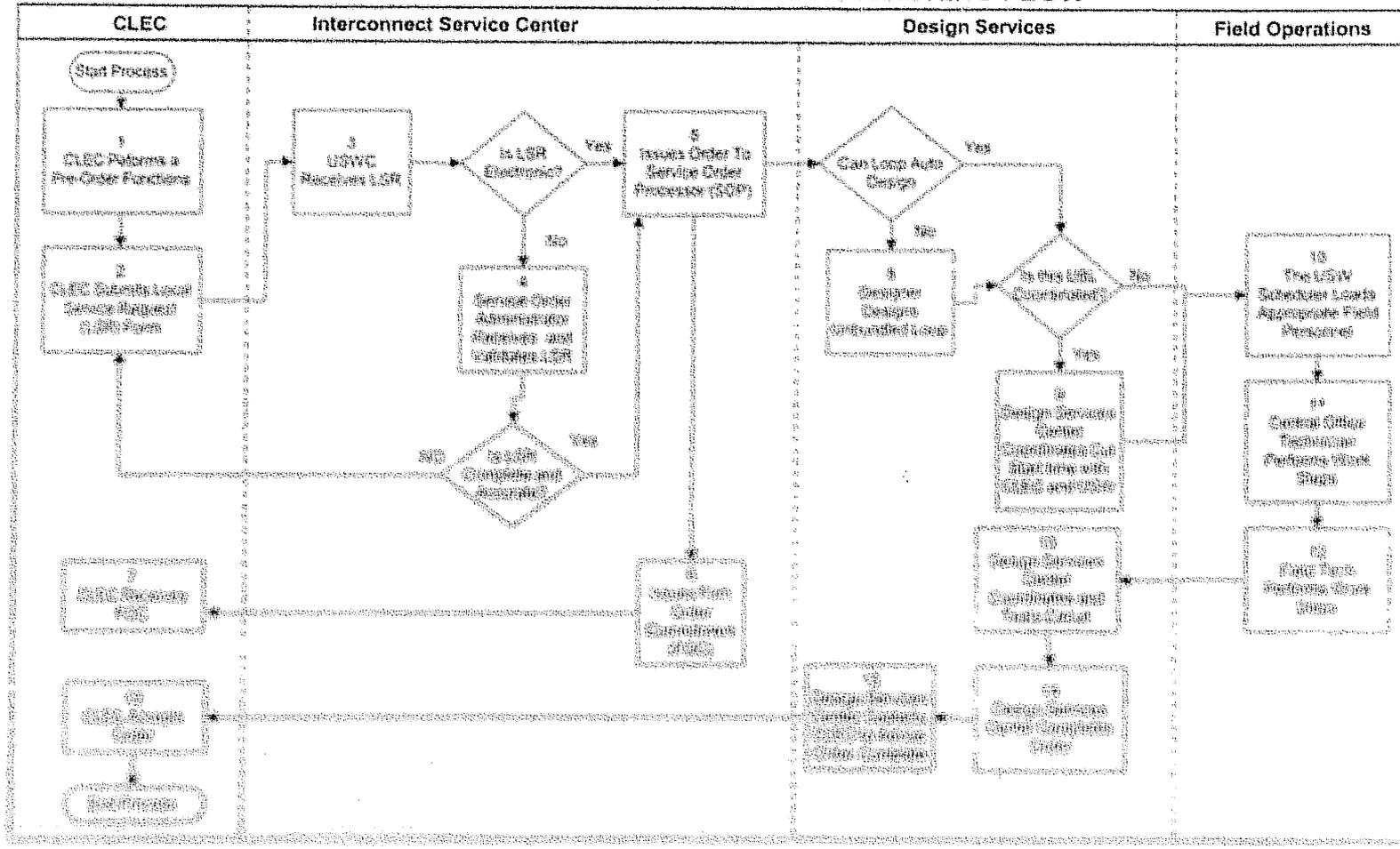
ROC PID Working Version 2.2 Dated February 9, 2001
 No changes to OP-3 – OP-6 for unbundled loops.

CONTINUATION

[1]

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UNBUNDLED LOOP PROVISIONING FLOW



CONTINUATION

[2.]

Unbundled Local Loop Provisioning Task List

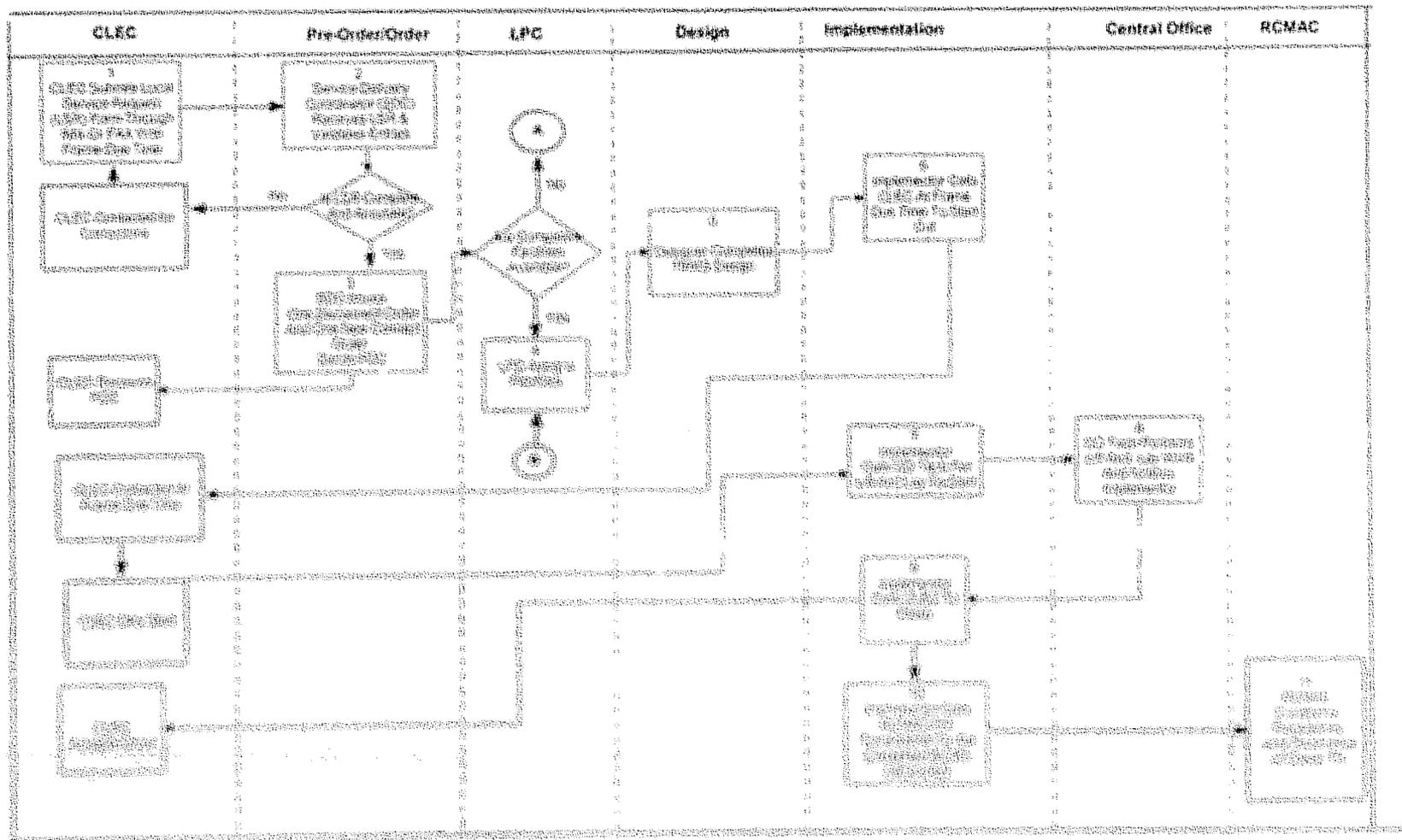
Assoc. Task #	Process
2-Wire & 4-Wire Voice Grade Ringing	
1	CLEC performs pre-order loop functions. The results will assist the CLEC in determining the equipment to purchase that will meet their specific needs.
2	Local Service Request (LSR) form submitted to U S WEST by means of FAX, mail or hand.
3 and 4	If faxed, Service Order Administrator (SOA) reviews LSR and associated forms for completeness. Verification includes checking: CLEC certification, Letter of Authorization (LOA), Security ID Number, CLEC Transmission Point, Network Channel (NC) and Network Channel Interface (NCI) codes, CLEC line class, material and facilities. If sent via IMA or EDI, the LSR is converted to 1 of more service orders and sent to the service order processor (SOP).
5	The Service Order Administrator issues the Service Order into the U S WEST Service Order Processing System. Then the service order is sent to the appropriate work groups including the Design Service Center.
6	The Service Order Administrator issues the Form Order Commitment (FOC) associated with the LSR. U S WEST EDI will send the FOC to the CLEC when the LSR is processed electronically.
7	CLEC receives FOC.
8	On the Record Order Issue Date (ROID), the circuit design is revealed either on the circuit order request. The design document or Word Document provides the circuit office and field technicians with the information necessary to wire the circuit.
9	For coordinated cuts the U S WEST design service center coordinates the cuts with the field office and U S WEST technicians. This step does not take place for non-coordinated cuts.
10	Provisioning work request received in Network Field Operations.
11	On the Design Verified and Assigned (DVA) the central office technician enters the circuit information into the Design Document specifications.
12	On the Plant Test Date (PTD) the field work or cut center provides pertinent information. A cut from the central office wire center is performed in conjunction with the central office technician.
13	For coordinated cuts the field technician calls the design center at the pre-arranged appointment time with the CLEC customer's location. Then the design center calls the central office and the CLEC. The central service center confirms that the CLEC is ready. The CLEC uses the central office wire center for the cut. The required tests are performed and the test results are reported. If the CLEC has purchased equipment testing, then the test results are forwarded to the CLEC.
14	The design center completes the order.
15	CLEC notified via phone call to accept service.
16	CLEC accepts the circuit.

CONTINUATION

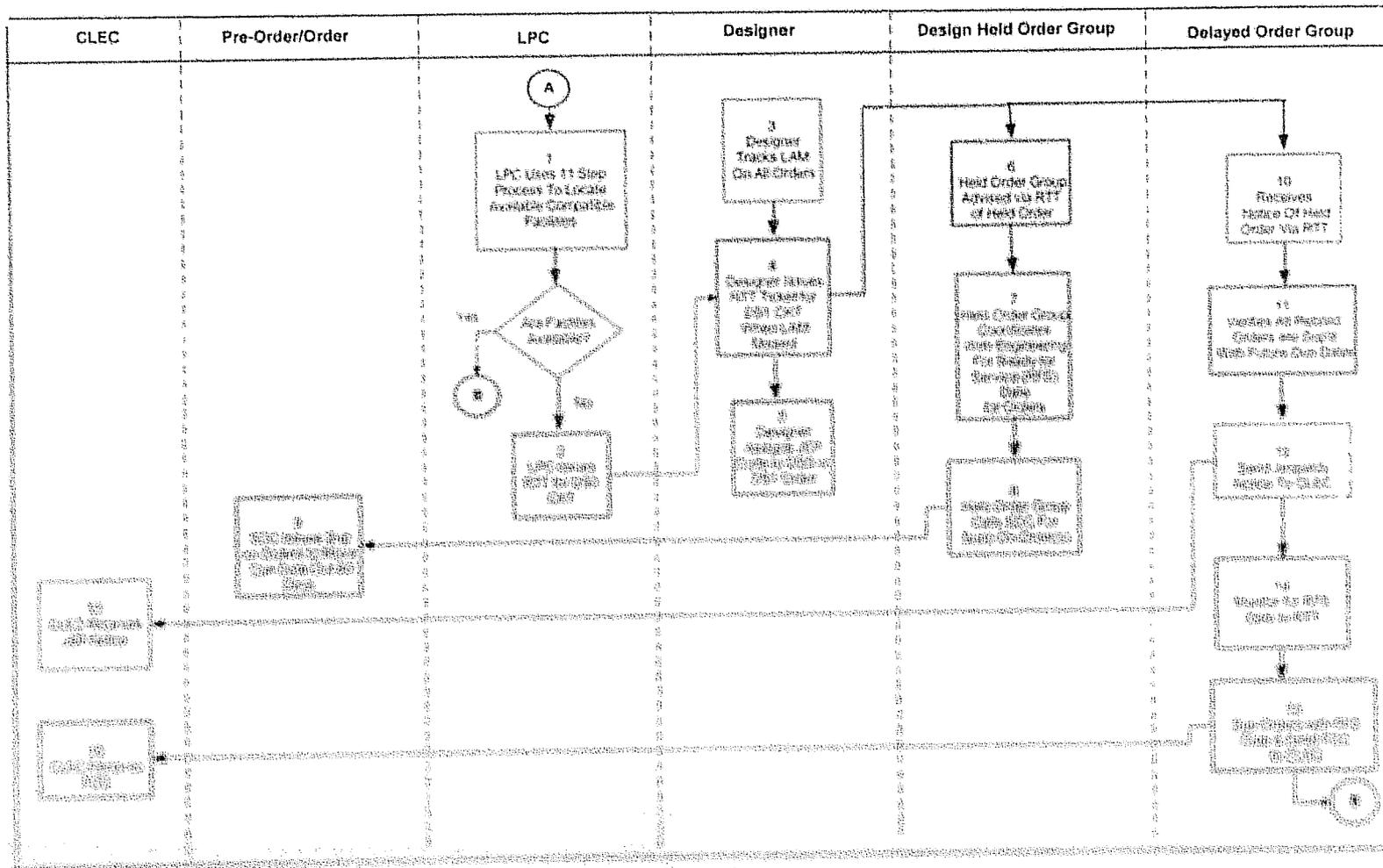
[3]

Scan ~ _____ ~ # Pages []

Coordinated Cut with Local Number Portability (chart 1)



Coordinated Cut with Local Number Portability (chart 2)



CONTINUATION

[4.]

Wholesale Product Development Process

Release Notification Form

Qwest Release Notification Form

Log # 5467145 Status: New - To be Industry Reviewed

Submitted By: Cindy Buckmaster - UBL Group Lead

Date Submitted: 1/22/01

Contact Information: e-mail: cbuckma@qwest.com, phone: 402-573-2304

Name, title, email, phone #

Title of Notification:

QWEST POSITION STATEMENT ON BUILD REQUIREMENTS FOR UNBUNDLED LOOPS

Area of Release Notification: Please check mark as appropriate and fill out the appropriate section below

System Product Process

Communicated To:

Date Communicated: 1/27/01

Please check mark as appropriate

- Co-Provider Industry IMA EDI current users or with an agreed upon project work plan IMA CD Disclosure Document Complete
- Team IMA GUI current and potential new users
- Public

Type of Notification: Please check mark as appropriate

- | | |
|---|---|
| <input type="checkbox"/> Target Release Date | <input type="checkbox"/> Disclosure Document Attachment |
| <input type="checkbox"/> Target Release Life Cycle | <input type="checkbox"/> Training Schedule |
| <input type="checkbox"/> Co-Provider Change Request Options for a Release | <input checked="" type="checkbox"/> Release Notes Description |
| <input type="checkbox"/> Release Baseline Candidates with Descriptions | <input type="checkbox"/> Release Notes |
| <input type="checkbox"/> Draft Developer Worksheets | <input type="checkbox"/> Post Release Notes Description |
| <input checked="" type="checkbox"/> Disclosure Document | <input type="checkbox"/> Post Release Notes |
| <input type="checkbox"/> Recertification Notices | <input type="checkbox"/> System Available Team |
| <input type="checkbox"/> New Product | <input type="checkbox"/> Product Statement |
| <input type="checkbox"/> Product Enhancement | |
| <input type="checkbox"/> Other | |

Please describe

Description of Notification: (e.g., mode/method of message and timing of delivery)

Effective:

May 1, 2001

Introduction:

In an effort to provide more clarity around Qwest's position concerning construction of facilities for Wholesale, Qwest is pleased to offer the construction of facilities to meet your IMA Voice Grade Unbundled Loop requests, pending certain conditions. This document is intended to provide the necessary information to make it easier to do business with us.

Network Build Position for the Unbundled Loop (UBL) Product:

When the CLEC submits a request for an UBL, the request will follow the normal assignment process for assignable facilities that fit the criteria necessary for the service requested.

At times, it is necessary to perform additional work, on existing copper facilities, to make facilities available to fill the request. If cable capacity is available, Qwest will complete incremental facility work in order to effect complete facilities to the customer premises. This work includes but is not limited: placement of a drop, addition of a Network Interface Device, addition of Cards to an existing Subscriber Loop Carrier Systems at the Central Office and Remote Terminal, addition of Central Office Tie Pairs, and addition of Field Cross Jumpers. This process will not include the splicing of dark fiber. This work may require additional time to make the facility ready to complete an order.

Available Facilities:

All Services: If available facilities (facilities that fit the parameters required by the service requested on the order) are identified, the order will be provisioned. The order will be completed on the requested Due Date but no sooner than the standard interval for the service requested.

If available facilities are not readily identified through the normal assignment process, but facilities can be made ready by the requested due date, (i.e. LST cuts), the order will be completed on the requested Due Date but no sooner than the standard interval for the service requested.

If the facilities require additional time to make ready, as described above, Qwest will use the process defined Delayed Order Section below.

If there are no facilities available that fit the criteria necessary for the service requested, the order will fall to the following process.

No Available Facilities:

All Services: Qwest will follow the steps identified in the Available Facilities section above to determine if there are available facilities (facilities that fit the parameters required by the service requested). As mentioned, Qwest will follow the normal assignment process to free potential facilities that may not currently be readily available (including authorized local cut and bridge tap removal) if necessary.

During the normal assignment process, if no available facilities (facilities that fit the parameters required by the service requested) are identified for the service requested, Qwest will look for existing Engineering Job Orders that could fill the request in the future. See information in the Delayed Order, Qwest Delay Section below.

If the assignment process identifies no planned Engineering Job Order, requests will fall to the following process.

No Available Facilities/No Planned Engineering Job:

DS0 - Analog (Voice Grade): When the CLEC submits a request for a DS0 - Analog (Voice Grade) only UBL, and that loop is considered Primary Service (as defined in the Qualifying Requests Section below) the normal assignment process will be followed in it's entirety. If no facilities can be found, and there is No Planned Engineering Job, an Engineering Job Order will be initiated to assure the delivery of primary service to that end-user.

As soon as it is determined that facilities are not available, the CLEC will receive a Priority Notice identifying that Facilities are not available. The CLEC may choose to cancel their order at this point with no Cancellation Charges.

Qualifying Requests: Qwest will construct facilities for UBL that are in alignment with its Eligible Telecommunications Carrier (ETC) obligation to provide basic local exchange service in the retail markets. This means that Qwest will construct facilities to satisfy the primary DS0 - Analog (voice grade) lines for UBL, as Qwest constructs these facilities for it's own end-users.

The Primary services identified above are specific to the set number of lines per address. Address is defined as the specific Unit (Loc).

When the CLEC submits a request for a DS0 – Analog (Voice Grade) only UBL, and that loop is considered Secondary Service (as defined in the Qualifying Requests Section above) the normal assignment process will be followed in it's entirety. If no facilities can be found, and there is No Planned Engineering Job, the LSR will be rejected (the CLEC will receive a Reject Notice) and the Order will be cancelled. The CLEC now has the opportunity to request construction by filing the proper request through their Account Team.

DS0 DSL Services/DS0 ISDN Services/DS1/DS3 requests: When the CLEC submits a request for a DSL, ISDN, DS1 or DS3 service, the normal assignment process will be followed in its entirety. If no facilities can be found, and there is No Planned Engineering Job, the LSR will be rejected (the CLEC will receive a Reject Notice) and the Order will be cancelled. The CLEC now has the opportunity to request construction by filing the proper request through their Account Team.

Delayed Orders:

Qwest Delays: In some cases, in order to modify facilities to make them ready for assignment, the CLEC request must be Delayed. The Delayed status of a job allows mechanical flow to the departments responsible for the additional work necessary and route the job to the correct work groups. Addition of incremental elements includes but is not limited to: placement of a drop, addition of a Network Interface Device (NID), Card existing Subscriber Loop Carrier (SLC) Systems at the Central Office and Remote Terminal, addition of Central Office Tie Pairs, Field Cross Jumpers. This position will not include the splicing of dark fiber.

Qwest will initiate a Delay when attempting to resolve a facility issue to free or modify facilities to satisfy an order. Delay time varies depending on the specific work group(s) involved.

If the facilities require additional time to make ready, the CLEC will receive a Jeopardy Notice stating that the order will be delayed until the facilities can be readied for service. Once the facilities are ready, Qwest will notify the CLEC of the new Due Date when the service will be completed. The CLEC may choose to cancel their order at this point with no Cancellation Charges. On the assigned Due Date, or on the later Requested Due Date received on a complete and accurate SUP, the service will be completed.

Qwest will initiate a Delay when attempting to Complete an Engineering Job to modify or construct the facilities requested by the CLEC.

If an Engineering Job currently exists, Qwest will include the facilities necessary in the CLEC's request in that Engineering job. When this happens, the CLEC will receive a Jeopardy Notice.

- If an Engineering Job has already been completed, within 72 hours the CLEC will be contacted with a new due date.
- If an Engineering Job is currently under development, the CLEC will be notified of the new Due Date at the completion of the Engineering work.

Qwest will initiate a delay to develop the necessary Engineering Job to construct facilities for Primary DS0 - Analog (Voice Grade) service (or as required by State Ruling). As soon as an Engineering Job is completed and a Ready For Service (RFS) Date is determined, Qwest will notify the CLEC of the new Due Date when the service will be completed. On the assigned Due Date, or on the later Requested Due Date received on a complete and accurate SUP, the service will be completed.

Outgoing Requests in Qwest Delayed Status: Within 30 business days, Qwest will begin reviewing requests currently in the Qwest delayed status. Each request will be individually reviewed to determine if there are available facilities (facilities that fit the parameters required by the service requested). The review process will include all of the steps previously identified in this document.

- * If facilities are identified, Qwest will notify the CLEC of the new Due Date.
- * If it is determined that there are no available facilities (facilities that fit the parameters required by the service requested) and no planned Engineering Job Orders that will satisfy this request, the LSR will be rejected (the CLEC will receive a Reject Notice) and the Service Order will be cancelled. The CLEC now has the opportunity to request construction by filing the proper request through their Account Team.

CLEC Delays: If a CLEC is unable to accept an UBL as originally specified on the Requested Due Date, the CLEC may request that the Order be Delayed. When a CLEC initiates a Delay for any reason, a 30 business day clock will begin. Within the 30 day period, the CLEC will receive an e-mail or fax notice stating "This is to advise you that PON _____ has not been completed due to customer reasons. We will hold this order for 30 days from (add 29 business days to the date the order was held for CLEC reasons). If billing is not accepted and begins within this 30 day period, the order shall be cancelled." The CLEC will have the time identified to accept billing on the circuit or the LSR will be rejected (the CLEC will receive a Reject Notice) and the Service Order will be cancelled. Qwest cannot accept a SUP beyond the first 30 business days for an existing order.

If tests show that the circuit meets the requirements of the service requested by the CLEC and the CLEC will not accept the circuit, the dispute must be resolved between the Qwest tester and the CLEC within the 30 business day period. To resolve the dispute, the CLEC would issue a SUP to re-schedule testing. The notification process defined in the paragraph above will apply. If a SUP is not received within the 30 business day period, the LSR will be rejected (the CLEC will receive a Reject Notice) and the Service Order will be cancelled.

The CLEC can release the request by submitting a SUP to the order with a future Due Date. Qwest will apply the new Due Date to the order and will allow the order to flow. Qwest cannot accept a SUP beyond the first 30 business days for an existing order.

If the CLEC fails to release the request prior to the 30 business day interval, on the 31st day, the LSR will be rejected (the CLEC will receive a Reject Notice) and the Service Order will be cancelled.

Existing Requests in the CLEC Delay Status: Within 30 business days, Qwest will begin reviewing requests currently in CLEC delay status. The notification process defined above will apply. If the request is not addressed by the CLEC the LSR will be rejected (the CLEC will receive a Reject Notice) and the Service Order will be cancelled.

Additional Information (e.g. web sites)

System Release Notification Section

Interfaces Impacted: Please check mark as appropriate

- | | | | |
|--------------------------------|----------------------------------|---|---|
| <input type="checkbox"/> CTAS | <input type="checkbox"/> IMA EDI | <input type="checkbox"/> MEDIACC | <input type="checkbox"/> TELIS |
| <input type="checkbox"/> EXACT | <input type="checkbox"/> IMA GUI | <input type="checkbox"/> Product Database | <input type="checkbox"/> Wholesale Billing Interfaces |
| <input type="checkbox"/> QWEST | <input type="checkbox"/> Other | | |

Please describe

Product Release Notification Section

Products Impacted: Please check mark all that apply (If "Other" please describe further)

<input checked="" type="checkbox"/> LIS Interconnection <input type="checkbox"/> DLT <input type="checkbox"/> Random Trunk /TST <input type="checkbox"/> DDT: Dedicated Transport <input type="checkbox"/> Random Switching <input type="checkbox"/> Local Switching <input type="checkbox"/> Other _____	<input type="checkbox"/> Collocation <input type="checkbox"/> Physical <input type="checkbox"/> Virtual <input type="checkbox"/> Adjacent <input type="checkbox"/> ICDF Collo. <input type="checkbox"/> Other _____	<input checked="" type="checkbox"/> UNE <input type="checkbox"/> Switching <input type="checkbox"/> Transport (incl. EUDIT) <input checked="" type="checkbox"/> Loop <input type="checkbox"/> UNE - P <input type="checkbox"/> EEL (UNE-C) <input type="checkbox"/> UDF <input type="checkbox"/> Other _____
<input type="checkbox"/> Ancillary <input type="checkbox"/> Resale <input type="checkbox"/> AIN <input type="checkbox"/> DA <input type="checkbox"/> Operation Services <input type="checkbox"/> INP/LNP <input type="checkbox"/> Other _____		

Process Release Notification Section

Area Impacted: Please check mark all that apply

Pre-Ordering
 Ordering
 Billing
 Repair Other _____
 Please Describe _____

Products Impacted: Please check mark as appropriate and list specific products within product group, if applicable

<input type="checkbox"/> Common <input type="checkbox"/> Collocation <input type="checkbox"/> EEL (UNE-C) <input type="checkbox"/> Enterprise Data Services <input type="checkbox"/> UDIT <input type="checkbox"/> UNE <input type="checkbox"/> INP <input type="checkbox"/> Private Line Please describe _____	<input type="checkbox"/> Resale <input type="checkbox"/> SS7 <input type="checkbox"/> Switched Services <input type="checkbox"/> UDIT <input checked="" type="checkbox"/> Unbundled Loop <input type="checkbox"/> UNE-P <input type="checkbox"/> Wireless <input type="checkbox"/> Other _____ Please describe _____
---	--

This Section to be Completed by Qwest CICMP Manager

Status, Evaluation and Implementation Comments:

12/1/01 - RN received from Cindy Huckmaster
 12/11/01 - Status changed to New - To be Validated
 12/20/01 - Status changed to New - To be Industry Reviewed and sent to CICMP Team

Docket TC 01-
Qwest Corporation
Exhibits to the Affidavit of Jean M. Liston
Checklist Item 4 - Unbundled Loop, NIDs and Line Splitting
Cover Sheet for Exhibit JML-Loop-8
October 24, 2001

Legend for IDLC Flow

Solution provisioning intervals:

- 1) UBL circuit cards – 5 days
LST – 5 days
- 2) LST – 5 days
- 3) INA Digroup (D4 Channel Bank, dedicated DS1) – 5 days if span capacity
- 4) Order COT – 90 days – 120 days
- 5) 1/0 DCS (Adtran BR110) - 90 days – 120 days
- 6) LS 2000, SLC 96, Series 5 - 90 days – 120 days
- 7) Hairpin – 15 days after approval

Unbundled Loop ordered on DLC systems

Is existing system UDLC?
Yes: Utilize appropriate cards for UBL circuit or Line & station transfer (LST) to copper facilities for UBL installation

Are existing UDLC or copper pairs available?
Yes: Line & station transfer (LST) as required for UBL installation

Is IDLC system INA capable?
Yes: Establish, augment or use existing INA Digroup to install UBL circuit

Is this IDLC system ISC303?
Yes: Create/use Universal Digroup D? → Unbundled Loop using Universal Digroup D

Is a 1/0 DCS existing in C.O.? → Unbundle Loop using 1/0 DCS

Is total UBL demand >3 circuits at CO? → Unbundle Loop using appropriate COT equipment (i.e., LS2000, SLC96, SER5)
No: Unbundle Loop using Hairpins, not to exceed 3 at CO.

Note:
As a last resort, Hairpins can be used to complete the installation of UBLs in very small quantities (3 loops or less). This method has been used by Qwest in the past and remains a very difficult method, although **not** recommended due to several severe administrative complications. Use of Hairpins **requires** Director level approval to proceed.

INA capability is only possible in systems with Time Slot Interchange (TSI) components.

Note:
Manufacture Discontinued (MD) COT equipment should be obtained from Reuse

11 Step Process

1. PERFORM ASG SO TRANSACTION

- On the Assignment Service Order (ASG SO) screen, populate the Name with U. This process will let the system try to reassign the order including Line Station Transfer (LST). This will re-execute the order within LFACS in an attempt to assign compatible facilities that recently became available.

2. REVIEW THE RMA

- Determine Service Type and any line quantity (LQTY) requirements. This will acquaint the Assignor with the specific requirements of the service request.
- Review the terminal ACP's, LST's attempted, and TEA remarks. This will acquaint the Assignor with limitations set within the LFACS database that could possibly be overridden to relieve facilities.
- If the Service Order request is for a 56/64 Kps, see Total Reach DTS Process (Not available for Unbundled Loops) URL: <http://rock.wave.net/~jml/rep/5664/5664.htm>

3. INVESTIGATE THE RANGE OF FACILITIES

- Look for the presence of PC Counts, Fill Counts, Physical or Admin Capacity limits. This will acquaint the Assignor with limitations set within the LFACS database that could possibly be changed to relieve facilities.
- Investigate assignment and cross connect Restrictions. This will acquaint the Assignor with limitations set within the LFACS database that could possibly be changed to relieve facilities.
- Perform an inquiry OEC report LST increasing the number of LST steps to a maximum of 3.
- Look for cuts (LST's) to clear copper pairs or non-loaded pairs for your order. If the POTS customer is working on a "Conditioned pair", move the POTS customer from the "conditioned pair" to other facilities. The "conditioned pair" will then be assigned to the service request.

4. RUN HOMT RPT

- Investigate any spare/CT/CF/PCF pairs for status problems. This will discover pairs that may be statused incorrectly within LFACS.
- If there is working service and Soft Dial Tone (SDT) at the same address, issue a SDT disconnect and assign the service order.
- Remove any Primary and Secondary commit (other than at an ENCAP) and assign the order. Primary and Secondary commit statuses will not allow the pairs to be used at other addresses. By removing the Primary/Secondary commit status we can allow the pairs to be assigned to another address.
- Investigate all SDT loops. If any appear at an address with working service - issue SDT disconnect. The SDT facilities can then be used for the Service Request.

- Investigate any defective pairs status "Working". If the cable pairs are not "working" remove the defective status and use the pair for the Service Request.
 - Investigate validity of all restricted pairs. If the restrictions are no longer valid, use the pair for the Service Request.
 - Check current status of all past due orders and take appropriate action. Service order completion/cancellations sometimes fails to process correctly. This will identify potential spare facilities.
 - Run the pending order query (RPT PDL RGORD) against TEA and check current status of all pending orders. Service order completion/cancellations sometimes fails to process correctly. This will identify potential spare facilities.
 - Use OEC Chart to determine possible Pair Gain Card changes. (Existing Pair Gain Loss Terminal status may not be compatible for the service request. If possible change the Pair Gain Card to a compatible status).
5. INVESTIGATE THE FACILITY ADDRESSES
- Investigate all Facility Addresses (perform an INQ Term transaction) for pairs that may have a status preventing it from being assigned.
 - Also investigate similar street addresses - (perform an INQ Term transaction) may have different directional or street names that are bogus that could release facilities.
6. INVESTIGATE MULTIPLE TERMINAL SITUATIONS
- Run Report ACR - check for "A and B" Terminals. (This will identify situations where cable counts appear in more than one terminal. If they "multiple", investigate the possibility of doing a LST to free up a cable pair within service requested terminal).
 - Perform Step 4 for all multiple terminals.
 - Investigate LST candidates that are not assignable by auto flow of the system. (If the ACT setting for LSTs is set below "3", Perform the RPT LST with a setting of "3" to identify assignable LSTs).
7. LOOK FOR SOFT DIAL TONE BREAKS
- Use SDT aging policy.
8. CHECK FOR DEPLOYABILITY OF CENTRAL OFFICE UDC
- Is office equipped with UDC and are Spares available (See UDC Guidelines).
 - If the line on the order is an ADL, check Main line for UDC Compatibility.
9. CHECK FOR PAIR GAIN UDC DEPLOYMENT
- When encountering a F2 problem SLC96, DISC*5, SLC5, SLC2T, UISC, 96SL5, 96DIS, or 96DIS UDC's may be deployed on IPG or PG. You must have consecutive odd and even channels available.

- When encountering a F1 problem SLC96, SLC5, or SLC27 UDC's may be deployed on HPG or PG. Look at the HOMT Report for a Defective even Channel. This should only be used when the terminal has less than 5% Defective Pairs per the HOMT Padfile Report. See SLC UDC Guidelines.

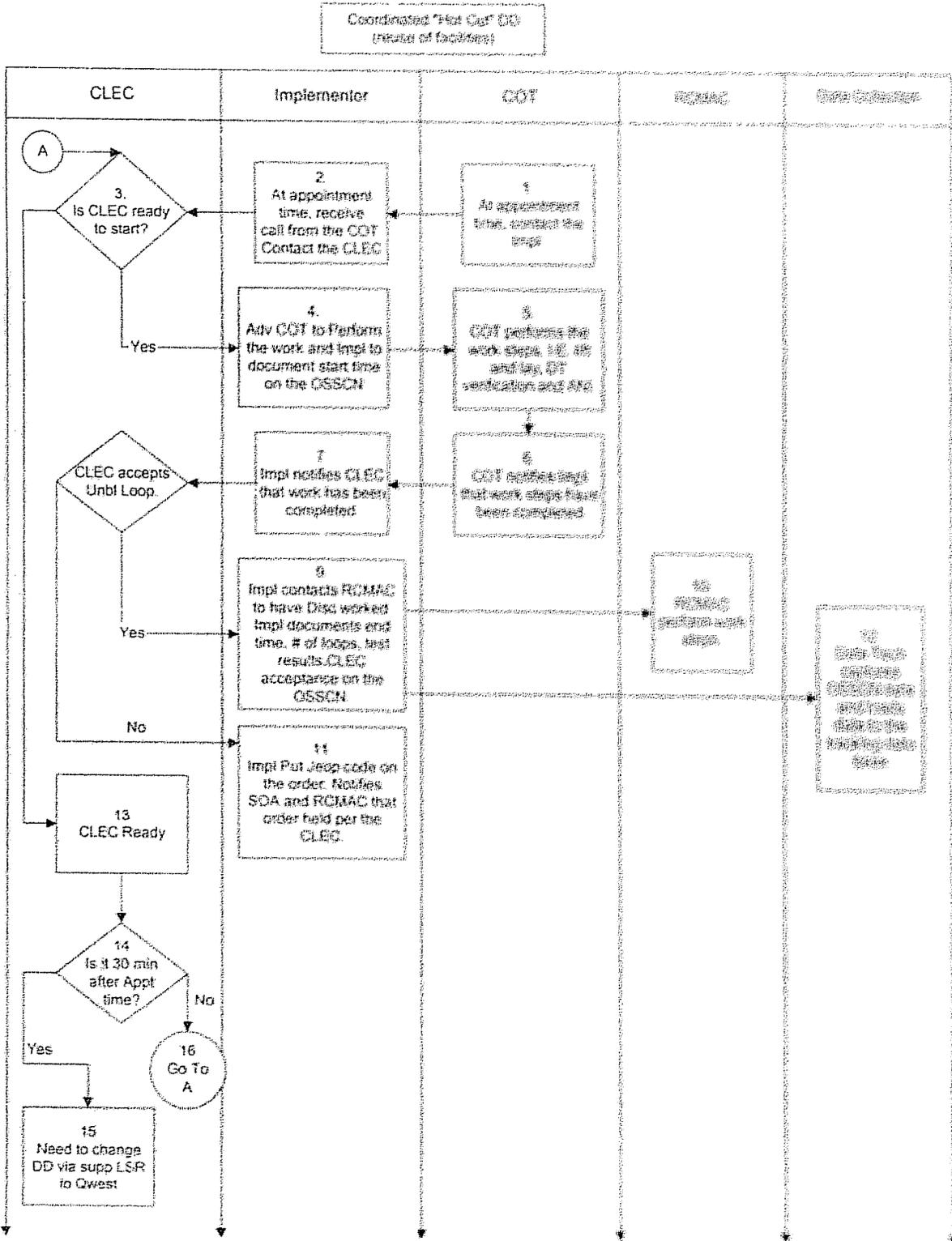
10. CLEAR DEFECTIVE PAIRS

- For F1 issues: If the terminal has 5% or greater Defective Pairs per the HOMT Padfile Report: Set Held and follow local practices for WFA/DO and Defective Pair removal. If so, status the RTT Ticket DPR_TO_LNO with appropriate notes.
- For Fn issues: Follow local practices/agreements as to what will be a WFA/DO package. If so, status the RTT Ticket DPR_TO_LNO with appropriate notes.

11. TERMINAL ENLARGEMENT – Distribution Terminal Only

- If the terminal has less than 5% Defective Pairs per the HOMT Padfile Report: Determination if the Terminal Enlargement process can be used. If so, status the RTT Ticket REP_FS with appropriate notes. (This process should be used only for POTS service requests).

Note: Wired Out of Limits will be performed at the discretion of the Engineer.



Coordinated Hot Cut Reuse Process Task List

Task #	Activity
1	At the requested appointment time the Qwest central office technician (COT) contacts the Qwest implementor to indicate readiness to start the cut.
2	The Implementor contacts the CLEC to determine readiness.
3	Is the CLEC ready to begin the cut?
4	Implementor advises the COT to start the cut and document the start time of the cut.
5	The COT performs the central office wiring and appropriate tests. The COT documents the start time of the "lift" and the end of the "lay" process.
6	The COT notifies the implementor that the work is complete and provides the implementor with the "lift" and "lay" time and the test results.
7	The implementor documents the stop time of the cut and notifies the CLEC that the work is complete.
8	The CLEC accepts the loop, asks for additional tests or refuses to accept the loop.
9	Once CLEC accepts the loop, implementor contacts RCMAC and documents the cut information manually on the form and electronically on the CLEC-CM system data file.
10	RCMAC completes any necessary work.
11	CLEC refuses to accept the loop, so the implementor enters a properly code on the order and notifies the Service Order Administrator (SOA) and the RCMAC that the order will not be completed due to customer reasons.
12	CLEC gets ready
13	CLEC needs to determine if more than 30 minutes has passed since the scheduled appointment time.
14	If more than 30 minutes has passed the CLEC needs to contact Qwest and schedule a new appointment.
15	If less than 30, then call Qwest to start the cut ... go to step 1 and start the process.

OSSCN COORDINATED ORDER

QWEST TESTER= _____ TODAY'S DATE= _____

ORDER NUMBER= _____ CAC= _____

COORDINATED REUSE= _____ DUE DATE= _____ APPT= _____

START= _____ STOP= _____ LIFT= _____ LAY/TST OK= _____ LINES= _____
(REGION TIME MILITARY)

RCMAC NAME= _____ D ORDER= _____ TIME= _____

MISSED COMMITMENT (Y/N)= _____ EARLY INSTALL APPROVED (Y/N)= _____

VP EXPEDITE (Y/N)= _____ DELAY DUE TO CLEC (Y/N)= _____ REASON FOR CLEC DELAY= _____

***REASON FOR DELAY (1)NO ANSWER (2) PON (3) REQUEST (4) OTHER

CLEC TSTR NAME 1ST CALL= _____ TN= _____

CLEC TSTR NAME NOTIFIED BY= _____ TN= _____

COT NAME= _____ TN= _____ TAGGED (Y/N) _____

CHECKED DT & ANI (Y/N) _____ DMARC _____

ICRVC ANI TEST ONLY: TN CALLED _____ CLEC NAME= _____

Record Test Results per Product Manually And apply to the appropriate CLEC TN

COORDINATED NEW _____ DUE DATE= _____ APPT= _____

START= _____ STOP= _____ EARLY INSTL APPROVD (Y/N) _____
(REGION TIME MILITARY)

VP EXPEDITE (Y/N)= _____ MISSED COMMITMENT (Y/N)= _____ DUE TO CLEC (Y/N)= _____

REASON FOR CLEC DELAY= _____ REASON FOR DELAY (1)NO ANSWER (2) PON (3) REQUEST (4) OTHER

CLEC NAME 1ST CALL= _____ TN= _____

CLEC TSTR NAME NOTIFIED BY= _____

OUTSIDE TECH= _____ OCB= _____ POB= _____

DMARC= _____ TAGGED (Y/N) _____

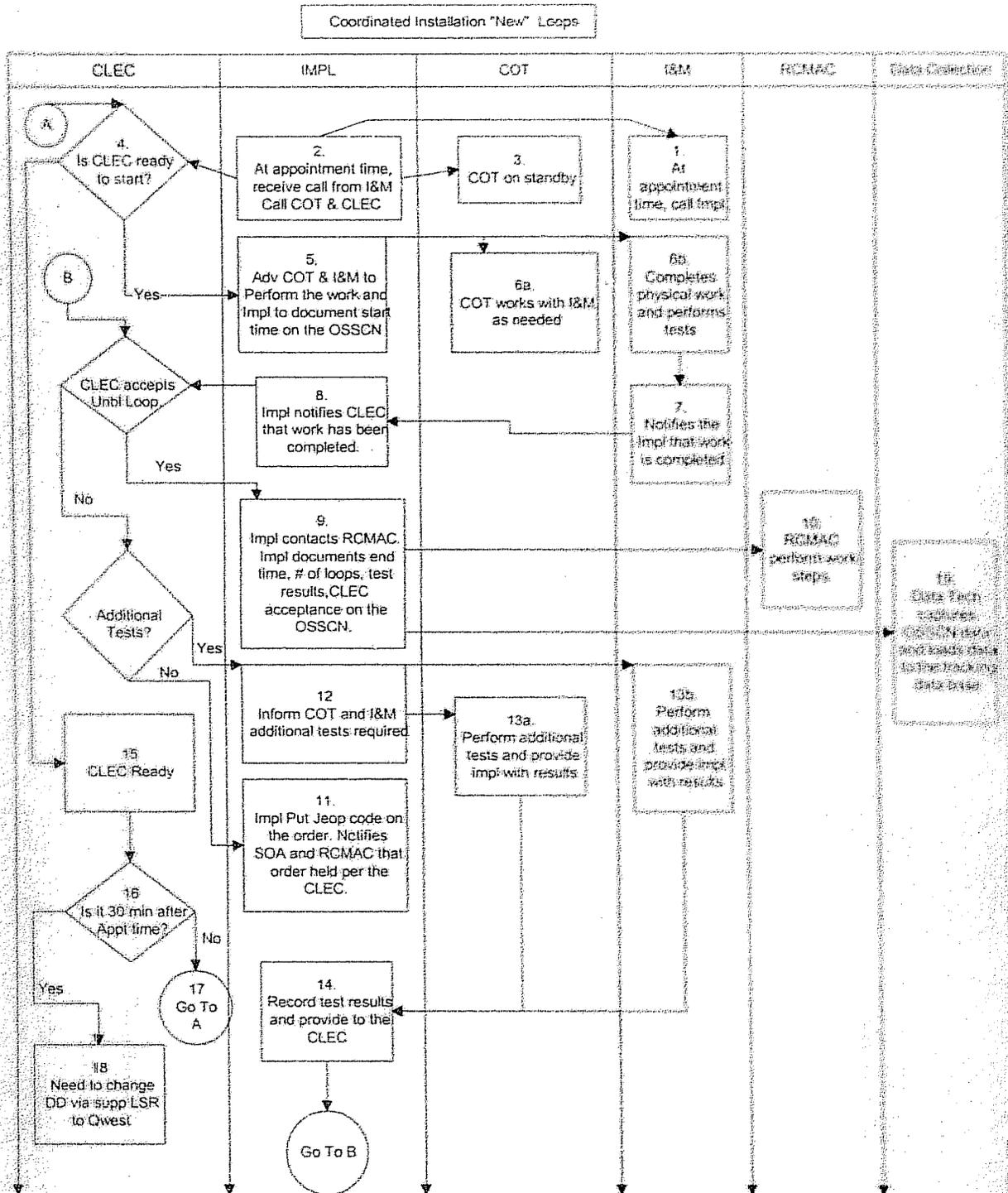
Record Test Results per Product Manually And apply to the appropriate CLEC TN

OSSCN Key Information

* Denotes required fields

Data Field	Description
Start*	The time you called the CLEC and received approval to begin the cut. Time must include region and input in military time.
Stop*	Notification to CLEC that Qwest work is complete, including any required testing. Time must include region and input in military time.
Lift*	The time that the Qwest work began; when the jumper was "lifted" from the CO frame. Time must include region and input in military time.
Lay/tst ok*	The time that the Qwest work "lay" was completed, including any required testing. Time must include region and input in military time.
Lines*	The number of lines that were worked (same PON).
RCMAC Name*	Name of the Qwest RCMAC employee that you spoke to. If the cut is a CLEC to CLEC migration, enter "MIG" in this field.
D-Order	The D-order that was worked by the RCMAC. If the cut is a CLEC to CLEC migration, this field should be left blank.
Time	The Time that the RCMAC was called to work the D-order. If the cut is a CLEC to CLEC migration, this field should be left blank.
Delay due to CLEC*	If the CLEC caused the coordinated cut to start by 30 minutes after the appointment time. This requires a positive entry of Y or N.
If Yes, CStart	The time the CLEC stopped the Coordinated Cut from moving forward. Cstart times for multiple CLEC delays should be separated by a comma.
CStop	The time the CLEC approved the Cut to move forward. Cstop times for multiple CLEC delays should be separated by a comma.
Reason for CLEC delay	The reason that the CLEC caused the delay (use code 1, 2, 3, 4, or 5) 1. CLEC no answer, 2. CLEC can't find PON, 3. CLEC requested delay, 4. CLEC other, 5. Complete data is after the objective date and the reason is a C jeopardy Reasons for multiple CLEC delays should be separated with a comma.
Early Install Approved*	Qwest started the cut before the Coordinated time with CLEC approval. Starting the cut even one minute prior to the appointment time requires CLEC approval. This requires a positive entry of Y or N.
VP Expedite*	Was there a VP Expedite associated with this order? This requires a positive entry of Y or N.
CLEC Tester* Name (1 st call)*	The name of the CLEC tester that you first contacted for approval to start the cut.
TN*	Telephone Number of the CLEC tester that you contacted
CLEC Tester Name Notified*	The Name of the CLEC tester that you notified that the Qwest work is complete
TN*	Telephone Number of the CLEC tester that you contacted
Qwest Tester*	The name of the Qwest Coordinator that worked on the order
COT Name*	The name of the Qwest Central Office Technician (COT) that worked the order
TN	The telephone number of the Qwest COT that worked the order
Checked DT & ANI	Verifies that the COT checked for Dial Tone and performed the ANI before & after the cut, this requires a positive entry of Y or N.
DMARC	This identifies where the NID is located at the End Users premise.
Tagged.	Verifies that the I & M technician labeled the NID with the appropriate information. This requires a positive entry of Y or N.
MLT Results	Verifies that the MLT was complete.

NOTE: Add order numbers & CAC at bottom of OSSCN Paper form for each order on PON



Coordinated Installation New Loops Process Task List

Task #	Activity
1	At the requested appointment time the Qwest Installation Technician (I&M) contacts the Qwest implementor to indicate readiness to start the cut.
2	The Implementor contacts the Central Office Technician (COT) and the CLEC to determine readiness.
3	COT on standby alert for testing
4	Is the CLEC ready to begin the cut?
5	Implementor tells I&M t and COT to start and documents the start time on the OSS-CN screen.
6a	COT performs any tests requested by I&M
6b	I&M completes the wiring at the end user location and performs required tests.
7	The I&M notifies the implementor that the work is complete and provides the test results.
8	The implementor documents the stop time and notifies the CLEC that the work is complete.
9	Once CLEC accepts the loop, implementor contacts RCMAC and documents the cut information on the OSS-CN screen
10	RCMAC completes any necessary work.
11	CLEC refuses to accept the loop, so a jeopardy code is entered on the order and the Service Order Administrator (SOA) and the RCMAC are notified hat the order will not be completed.
12	CLEC wants additional tests so Implementor notifies COT and I&M.
13a	COT participates as needed in additional tests.
13b	I&M participates as needed in additional tests and provides implementor with the results.
14	Implementor provides results and ensures CLEC has test results
15	CLEC gets ready for the installation
16	CLEC needs to determine if more than 30 minutes has passed since the scheduled appointment time.
17	If less than 30 minutes than the CLEC notifies the implementor that they are ready.
18	If more than 30 minutes has passed the CLEC needs to contact Qwest and schedule a new appointment.
19	The data technician records the data from the OSS CN screen into the tracking database.

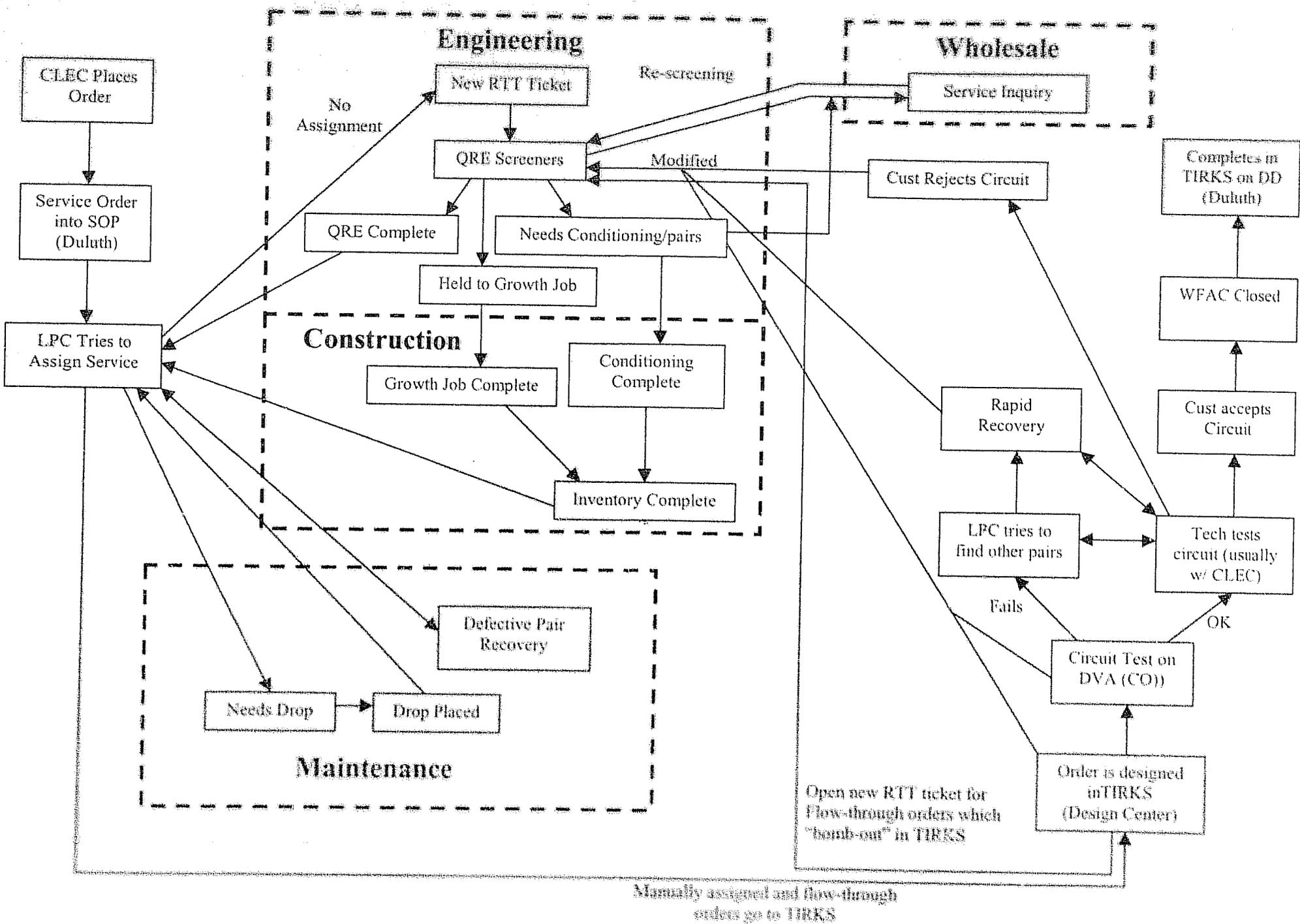
Docket TC 01-____
Qwest Corporation
Exhibits to the Affidavit of Jean M. Liston
Checklist Item 4 – Unbundled Loop, NIDs and Line Splitting
Cover Sheet for Exhibit JML-LOOP-12
October 24, 2001

CONTINUATION

[5]

Scan ~ _____ ~ # Pages []

Unbundled Loop Conditioning Process Flow



CONTINUATION

[6]

Docket TC 01-__

Qwest Corporation

Exhibits to the Affidavit of Jean M. Liston

Checklist Item 4 – Unbundled Loop, NIDs and Line Splitting

Cover Sheet for Exhibit JML-LOOP-13

October 24, 2001

OP-3 – Installation Commitments Met

Purpose:

Evaluates the extent to which Qwest installs services for Customers by the scheduled due date.

Description:

Measures the percentage of orders for which the scheduled due date is met.

- All Inward orders (Change, New, and Transfer order types) assigned a due date by Qwest and which are completed/closed during the reporting period are measured, subject to exclusions specified below. Change order types included in this measurement consist of all C orders representing inward activity (with "I" and "T" action coded line USOCs). ^{NOTE 1} Also included are orders with customer-requested due dates longer than the standard interval.
- Completion date on or before the Applicable Due Date recorded by Qwest is counted as a met due date. The Applicable Due Date is the original due date or, if changed or delayed by the customer, the most recently revised due date, subject to the following: If Qwest changes a due date for Qwest reasons, the Applicable Due Date is the customer-initiated due date, if any, that is (a) subsequent to the original due date and (b) prior to a Qwest-initiated, changed due date, if any.

Reporting Period: One month

Unit of Measure: Percent

Reporting

Comparisons:
 CLEC aggregate,
 individual CLEC
 and Qwest Retail
 results

Disaggregation Reporting: Statewide level.

- Results for product/services listed in Product Reporting under "MSA-Type Disaggregation" will be reported according to orders involving:
 OP-3A Dispatches within MSAs;
 OP-3B Dispatches outside MSAs; and
 OP-3C No dispatches.
- Results for products/services listed in Product Reporting under "Zone-type Disaggregation" will be disaggregated according to installations:
 OP-3D In Interval Zone 1 areas; and
 OP-3E In Interval Zone 2 areas.

Formula:

$$\left(\frac{\text{Total Orders completed in the reporting period on or before the Applicable Due Date}}{\text{Total Orders Completed in the Reporting Period}} \right) \times 100$$

Explanation: The percent commitments met is obtained by dividing the total number of service orders completed on or before the Applicable Due Date (as defined in the description above) by the total number of service orders completed during the measurement period.

Exclusions:

- Disconnect, From (another form of disconnect) and Record order types.
- Due dates missed for standard categories of customer and non-Qwest reasons. Standard categories of customer reasons are: previous service at the location did not have a customer-requested disconnect order issued, no access to customer premises, and customer hold for payment. Standard categories of non-Qwest reasons are: Weather, Disaster, and Work Stoppage.
- Records involving official company services.
- Records with invalid due dates or application dates.
- Records with invalid completion dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

OP - 1 Installation Commitments Met (continued)

Product Reporting	Standards:
MSA-Type Disaggregation -	
• Resale	
Residential single line service	Parity with retail service
Business single line service	Parity with retail service
Circuit	Parity with retail service
Carrier 21	Parity with retail service
DSO (non-designed provisioning)	Parity with retail service
PBX Trunks (non-designed provisioning)	Parity with retail service
Primary ISDN (non-designed provisioning)	Parity with retail service
Basic ISDN (non-designed provisioning)	Parity with retail service
Qwest DSL (non-designed provisioning)	Parity with retail service
• Unbundled Network Element - Platform (UNE-P) (POTS)	Parity with like retail service
• Unbundled Loops:	
Analog Loop (non-designed provisioning)	90%
• Shared Loop/Line Sharing	Diagnostic
• Sub-Loop Unbundling	Diagnostic
Zone-Type Disaggregation -	
• Resale	
Primary ISDN (designed provisioning)	Parity with retail service
Basic ISDN (designed provisioning)	Parity with retail service
DSO (designed provisioning)	Parity with retail service
DS1	Parity with retail service
PBX Trunks (designed provisioning)	Parity with retail service
Qwest DSL (designed provisioning)	Parity with retail service
DS3 and higher bit-rate services (aggregate)	Parity with retail service
Frame Relay	Parity with retail service
• DS Trunks	Parity with Feature Group D (aggregate)
• Unbundled Dedicated Interoffice Transport (UDIT)	
UDIT - DS1 level	Parity with retail DS1 Private Line
UDIT - Above DS1 level	Parity with retail Private Lines above DS1 level
Dark Fiber - IOF	Diagnostic
• Unbundled Loops:	
Analog Loop (designed provisioning)	90%
Non-loaded Loop (2-wire)	90%
Non-loaded Loop (4-wire)	Parity with retail DS1 Private Line
DS1 capable Loop	Parity with retail DS1 Private Line
ISDN capable Loop	Parity with retail ISDN BRI
ADSL-qualified Loop	90%
Loop types of DS3 and higher bit-rates (aggregate)	Parity with retail DS3 and higher bit-rate Private Line services (aggregate)
Dark Fiber - Loop	Diagnostic
Loops with Conditioning	90%
• E911/911 Trunks	Parity with retail E911/911 Trunks
• Enhanced Extended Links (EELs)	Diagnostic
Availability:	Notes:

OP - 3 Installation Commitments Met (continued)

Available	
	1. Prior to Aug 01 results the specified Change order types (i.e., with "I" & "T" action codes) included some orders that do not strictly represent additional lines (in both wholesale and retail results). Specifically these include changes to existing lines, such as conversions, number changes, PIC changes, and class of service changes. Beginning with Aug 01 results Qwest developed the capability to exclude "Change" service orders that do not involve installation of lines.

OP-4 – Installation Interval

Purpose:

Evaluates the timeliness of Qwest's installation of services for customers, focusing on the average time to install service.

Description:

Measures the average interval (in business days) ^{NOTE 1} between the application date and the completion date for service orders accepted and implemented.

- Includes all inward orders (Change, New, and Transfer order types) assigned a due date by Qwest and which are completed/closed during the reporting period, subject to exclusions specified below. Change order types for additional lines consist of all C orders representing inward activity (with "T" and "T" action coded line USOCs). ^{NOTE 2}
- Intervals for each measured event are counted in whole days: the application date is day zero (0); the day following the application date is day one (1).
- The Applicable Due Date is the original due date or, if changed or delayed by the customer, the most recently revised due date, subject to the following: If Qwest changes a due date for Qwest reasons, the Applicable Due Date is the customer-initiated due date, if any, that is (a) subsequent to the original due date and (b) prior to a Qwest-initiated, changed due date, if any. ^{NOTE 3}
- Time intervals associated with customer-initiated due date changes or delays occurring after the Applicable Due Date, as applied in the formula below, are calculated by subtracting the latest Qwest-initiated due date, if any, following the Applicable Due Date, from the subsequent customer-initiated due date, if any. ^{NOTE 3}

Reporting Period: One month

Unit of Measure: Average Business Days

Reporting Comparisons:

CLEC
 aggregate
 individual CLEC
 and Qwest
 Retail results

Disaggregation Reporting: Statewide level.

- Results for product/services listed in Product Reporting under "MSA-Type Disaggregation" will be reported according to orders involving:
 - OP-4A Dispatches within MSAs;
 - OP-4B Dispatches outside MSAs; and
 - OP-4C No dispatches.
- Results for products/services listed in Product Reporting under "Zone-type Disaggregation" will be disaggregated according to installations:
 - OP-4D In Interval Zone 1 areas; and
 - OP-4E In Interval Zone 2 areas.

Formula:

$$\frac{[(\text{Order Completion Date}) - (\text{Order Application Date}) - (\text{Time interval between the Original Due Date and the Applicable Date}) - (\text{Time intervals associated with customer-initiated due date changes or delays occurring after the Applicable Due Date})] / \text{Total Number of Orders Completed in the reporting period}}$$

Explanation: The average installation interval is derived by dividing the sum of installation intervals for all orders (in business days) ^{NOTE 1} by total number of service orders completed in the reporting period.

OP-4 – Installation Interval (continued)

Exclusions:

- * Orders with customer requested original due dates greater than the current standard interval. (This exclusion does not apply to LIS trunks, E911 and products involving dispatches reported under "MSA-Type Disaggregation," for which orders for all requested intervals are included. These exceptions to this exclusion will be removed as Qwest develops the corresponding measurement capability, at which time this definition will be updated.)
- * Disconnect, From (another form of disconnect) and Record order types.
- * Records involving official company services.
- * Records with invalid due dates or application dates.
- * Records with invalid completion dates.
- * Records with invalid product codes.
- * Records missing data essential to the calculation of the measurement per the PID.

OP-4 – Installation Interval (continued)

Product Reporting:	Standards:
MSA-Type Disaggregation -	
• Resale	
Residential single line service	Parity with retail service
Business single line service	Parity with retail service
Centrex	Parity with retail service
Centrex 21	Parity with retail service
DS0 (non-designed provisioning)	Parity with retail service
PBX Trunks (non-designed provisioning)	Parity with retail service
Primary ISDN (non-designed provisioning)	Parity with retail service
Basic ISDN (non-designed provisioning)	Parity with retail service
Qwest DSL (non-designed provisioning)	Parity with retail service
• Unbundled Network Element – Platform (UNE-P) (POTS)	Parity with like retail service
• Unbundled Loops:	
Analog Loop (non-designed provisioning)	6 days
• Shared Loop/Line Sharing	Diagnostic
• Sub-Loop Unbundling	Diagnostic
Zone-Type Disaggregation -	
• Resale	
Primary ISDN (designed provisioning)	Parity with retail service
Basic ISDN (designed provisioning)	Parity with retail service
DS0 (designed provisioning)	Parity with retail service
DS1	Parity with retail service
PBX Trunks (designed provisioning)	Parity with retail service
Qwest DSL (designed provisioning)	Parity with retail service
DS3 and higher bit-rate services (aggregate)	Parity with retail service
Frame Relay	Parity with retail service
• LIS Trunks	Parity with Feature Group D (aggregate)
• Unbundled Dedicated Interoffice Transport (UDIT)	
UDIT – DS1 level	Parity with DS1 Private Line Service
UDIT – Above DS1 level	Parity with Private Lines above DS1 level
Dark Fiber – IOF	Diagnostic
• Unbundled Loops:	
Analog Loop (designed provisioning)	6 days

OP-4 – Installation Interval (continued)

Non-loaded Loop (2-wire)	6 days
Non-loaded Loop (4-wire)	Parity with retail DS1 Private Line
DS1-capable Loop	Parity with retail DS1 Private Line
ISDN-capable Loop	Parity with retail ISDN BRI
ADSL-qualified Loop	6 days
Loop types of DS3 and higher bit-rates (aggregate)	Parity with retail DS3 and higher bit-rate services (aggregate)
Dark Fiber – Loop	Diagnostic
Loops with Conditioning	16.5 days
• E911/911 Trunks	Parity with retail E911/911 Trunks
• Enhanced Extended Links (EELs)	Diagnostic
Availability: Available:	Notes: <ol style="list-style-type: none"> 1. Saturday is counted as a business day when the service order is completed on Saturday. 2. Prior to Aug 01 results the specified Change order types (i.e., with "I" & "T" action codes) included some orders that do not strictly represent additional lines (in both wholesale and retail results). Specifically these include changes to existing lines, such as conversions, number changes, PIC changes, and class of service changes. Beginning with Aug 01 results Qwest developed the capability to exclude "Change" service orders that do not involve installation of lines. 3. According to this definition, the Applicable Due Date can change per successive customer-initiated due date changes or delays, up to the point when a Qwest-initiated due date change occurs. At that point, the Applicable Due Date becomes fixed (i.e., with no further changes) as the date on which it was set prior to the first Qwest-initiated due date change, if any. Following the first Qwest-initiated due date change, any further customer-initiated due date changes or delays are measured as time intervals that are subtracted as indicated in the formula. These delay time intervals are calculated as stated in the description. (Though infrequent, in cases where multiple Qwest-initiated due date changes occur, the stated method for calculating delay intervals is applied to each pair of Qwest-initiated due date change and subsequent customer-initiated due date change or delay. The intervals thus calculated from each pairing of Qwest and customer-initiated due dates are summed and then subtracted as indicated in the formula.) The result of this approach is that Qwest-initiated impacts on intervals are counted in the reported interval, and customer-initiated impacts on intervals are not counted in the reported interval.

OP-5 – New Service Installation Quality

Purpose:

Evaluates quality of ordering and installation of services, focusing on the percentage of average monthly new order installations that were free of trouble reports for thirty (30) calendar days following installation, including the percentage of new service installations that experienced a trouble report on the installation date after the order is reported as work complete by the technician.

Description:

OP-5 Measures the monthly average percentage of new installations that are free of trouble reports within 30 calendar days of initial installation.

- New installation orders used in calculating this performance indicator (appearing in the numerator and the denominator of the OP-5 formula shown below) are all inward orders for the current and previous reporting periods, including Change (C-type) orders for additional lines. Change order types for additional lines consist of all C orders with "I" and "T" action coded line USOCs, including changes to existing lines, such as conversions, number changes, PIC changes and class of service changes. (The average monthly number of new installation orders calculated in the denominator of the formula shown below will be rounded up to the nearest integer whole number.)
- All trouble reports (for both out-of-service and service-affecting conditions) closed within the reporting period, which were received within thirty (30) days of the original installation of service, including on the day the order is installed are measured (for use in the numerator of the formula shown below), subject to exclusions shown below.
- Because the trouble reports in the numerator of this measurement are reported on a per-line basis and therefore may exceed the number of orders it is possible for the numerator, and thus the reported result, to be negative. Accordingly, a lower limit of zero will be applied to the numerator of this measurement, reflecting that there cannot be a negative number of "new service installations."
- Includes both out of service and service affecting trouble reports, subject to exclusions shown below.

Reporting Period: One month (for trouble reports); Average of prior and current reporting month (for new installation activity)	Unit of Measure: Percent
--	---------------------------------

Reporting Comparisons: CLEC aggregate, individual CLEC and Qwest Retail results	Disaggregation Reporting: Statewide level
--	--

Formula:

$$\left(\frac{\text{Number of New Installation Orders completed in the [prior + current months]/2}^* - (\text{Total Number of New Installation-related Trouble Reports closed in the reporting period within 30 Calendar Days of Order Completion, including on the day the order is installed})}{\text{Number of New Installation Orders completed in the [prior + current months]/2}^*} \right) \times 100$$

- * The value of the two-month average New Installation Orders completed is rounded up to an integer value.

Exclusions:

- Trouble reports coded as follows (applies to the trouble reports subtracted from the New Installation Orders in the numerator of OP-5):
 - For products measured from MTAS data trouble reports coded to disposition codes for: Customer Action (6); Non-Telco Plant (11); Trouble Beyond the Network Interface (12); and Miscellaneous – Non-Dispatch, non-Qwest (includes CPE, Customer Instruction, Carrier Alternate Provider (13);
 - For products measured from WFA (Workforce Administration) data, trouble reports coded to trouble codes for Carrier Action (IEC) and Customer Provided Equipment (CPE)
- Subsequent trouble reports of any trouble on the installed service before the original trouble report is closed.
- Information tickets generated for internal Qwest system/network monitoring purposes.

OP-5 – New Service Installation Quality (Continued)

- Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.
- Disconnect, From (another form of disconnect) and Record order types.
- Records involving official company services.
- Records with invalid due dates, application dates, or start dates.
- Records with invalid completion, cleared, or closed dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

Product Reporting:	Standards:
• Resale	
Residential single line service	Parity with retail service
Business single line service	Parity with retail service
Centrex	Parity with retail service
Centrex 21	Parity with retail service
PBX Trunks	Parity with retail service
Basic ISDN	Parity with retail service
Qwest DSL	Parity with retail service
Primary ISDN	Parity with retail service
DS0	Parity with retail service
DS1	Parity with retail service
DS3 and higher bit-rate services (aggregate)	Parity with retail service
Frame Relay	Parity with retail service
• Unbundled Network Element – Platform (UNE-P) (POTS)	Parity with like retail service
• Shared Loop/Line Sharing	Diagnostic
• Sub-Loop Unbundling	Diagnostic
• LIS Trunks	Parity with Feature Group D (aggregate)
• Unbundled Dedicated Interoffice Transport (UDIT)	
UDIT – DS1 level	Parity with retail DS1 Private Lines
UDIT – Above DS1 level	Parity with retail Private Lines above DS1 level
Dark Fiber – IOF	Diagnostic
• Unbundled Loops:	
Analog Loop	Parity with retail Res and Bus POTS with dispatch
Non-loaded Loop (2-wire)	Parity with retail ISDN BRI
Non-loaded Loop (4-wire)	Parity with retail DS1
DS1-capable Loop	Parity with retail DS1
ISDN-capable Loop	Parity with retail ISDN BRI
ADSL-qualified Loop	Parity with retail Qwest DSL with dispatch
Loop types of DS3 and higher bit-rates (aggregate)	Parity with retail DS3 and higher bit-rate services (aggregate)
Dark Fiber – Loop	Diagnostic
• E911/911 Trunks	Parity with retail E911/911 Trunks
• Enhanced Extended Links (EELs)	Diagnostic
Availability:	Notes:
Available:	

OP-5 – New Service Installation Quality (Continued)

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OP-6 – Delayed Days

Purpose:

Evaluates the extent Qwest is late in installing services for customers, focusing on the average number of days that late orders are completed beyond the committed due date.

Description:

OP-6A – Measures the average number of business days ^{NOTE 1} that service is delayed beyond the Applicable Due Date for non-facility reasons attributed to Qwest.

- Includes all inward orders (Change, New, and Transfer order types) that are completed/closed during the reporting period, later, due to non-facility reasons, than the Applicable Due Date recorded by Qwest, subject to exclusions specified below.

OP-6B – Measures the average number of business days ^{NOTE 1} that service is delayed beyond the Applicable Due Date for facility reasons attributed to Qwest.

- Includes all inward orders (Change, New, and Transfer order types) that are completed/closed during the reporting period later due to facility reasons than the original due date recorded by Qwest, subject to exclusions specified below.

For both OP-6A and OP-6B:

- Change order types for additional lines consist of "C" orders with "T" and "T" action coded line USOCs. ^{NOTE 2}
- The Applicable Due Date is the original due date or, if changed or delayed by the customer, the most recently revised due date, subject to the following: If Qwest changes a due date for Qwest reasons, the Applicable Due Date is the customer-initiated due date, if any, that is (a) subsequent to the original due date and (b) prior to a Qwest-initiated, changed due date, if any. ^{NOTE 2}
- Time intervals associated with customer-initiated due date changes or delays occurring after the Applicable Due Date, as applied in the formula below, are calculated by subtracting the latest Qwest initiated due date, if any, following the Applicable Due Date, from the subsequent customer-initiated due date, if any. ^{NOTE 3}

Reporting Period: One month

Unit of Measure: Average Business Days

Reporting Comparisons:

CLEC aggregate, individual CLEC and Qwest Retail results

Disaggregation Reporting: Statewide level.

- Results for products/services listed under Product Reporting under "MSA type Disaggregation" will be reported for OP-6A and OP-6B according to orders involving:
 1. Dispatches within MSAs;
 2. Dispatches outside MSAs; and
 3. No dispatches.
- Results for products/services listed in Product Reporting under "Zone type Disaggregation" will be disaggregated according to installations:
 4. In Interval Zone 1 areas; and
 5. In Interval Zone 2 areas.

Formula:

OP-6A = $\frac{\sum[(\text{Actual Completion Date of late order for non-facility reasons}) - (\text{Applicable Due Date of late order}) - (\text{Time intervals associated with customer-initiated due date changes or delays occurring after the Applicable Due Date})]}{(\text{Total Number of Late Orders for non-facility reasons completed in the reporting period})}$

OP-6B = $\frac{\sum[(\text{Actual Completion Date of late order for facility reasons}) - (\text{Applicable Due Date of late order})] - (\text{Time intervals associated with customer-initiated due date changes or delays occurring after the Applicable Due Date})}{(\text{Total Number of Late Orders for facility reasons completed in the reporting period})}$

OP-6 – Delayed Days (continued)

Exclusions:

- Disconnect, From (another form of disconnect) and Record order types.
- Records involving official company services.
- Records with invalid due dates or application dates.
- Records with invalid completion dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the FID.

OP-6 – Delayed Days (continued)

Product Reporting:	Standards:
MSA-Type Disaggregation -	
• Resale –	
Residential single line service	Party with retail service
Business single line service	Party with retail service
Centrex	Party with retail service
Centrex 21	Party with retail service
DS0 (non-designed provisioning)	Party with retail service
PBX Trunks (non-designed provisioning)	Party with retail service
Primary ISDN (non-designed provisioning)	Party with retail service
Basic ISDN (non-designed provisioning)	Party with retail service
Qwest DSL (non-designed provisioning)	Party with retail service
• Unbundled Network Element – Platform (UNE-P) (POTS)	Party with like retail service
• Unbundled Loops:	
Analog Loop (non-designed provisioning)	Party with retail Res and Bus POTS with dispatch
• Shared Loop/Line Sharing	Diagnostic
• Sub-Loop Unbundling	Diagnostic
Zone-type Disaggregation -	
• Resale	
Primary ISDN (designed provisioning)	Party with retail service
Basic ISDN (designed provisioning)	Party with retail service
DS0 (designed provisioning)	Party with retail service
DS1	Party with retail service
PBX Trunks (designed provisioning)	Party with retail service
Qwest DSL (designed provisioning)	Party with retail service
DS3 and higher bit-rate services (aggregate)	Party with retail service
Frame Relay	Party with retail service
• LIS Trunks	Party with Feature Group 02 (aggregate)
• Unbundled Dedicated Interoffice Transport (UDIT)	
UDIT – DS1 level	Party with retail DS1 Private Line Service
UDIT – Above DS1 level	Party with retail Private Line Services above DS1 level
Dark fiber – IOF	Diagnostic
• Unbundled Loops:	
Analog Loop (designed provisioning)	Party with retail Res and Bus POTS with dispatch
Non-loaded Loop (2-wire)	Party with retail ISDN line
Non-loaded Loop (4-wire)	Party with retail DS1 Private Line
DS1-capable Loop	Party with retail DS1 Private Line
ISDN-capable Loop	Party with retail ISDN line
ADSL-qualified Loop	Party with retail Qwest DSL with dispatch
Loop types of DS3 and higher bit-rates (aggregate)	Party with retail DS3 and higher bit-rate Private Line services (aggregate)
Dark Fiber – Loop	Diagnostic

OP-6 – Delayed Days (continued)

<ul style="list-style-type: none"> E911/911 Trunks 	Party with retail E911/911 Trunks
<ul style="list-style-type: none"> Enhanced Extended Links (EELs) 	Diagnostic
<p>Availability: Available</p>	<p>Notes:</p> <ol style="list-style-type: none"> Saturday is counted as a business day when the service order is completed on Saturday. Prior to Aug 01 results the specified Change order types (i.e., with T & T action codes) included some orders that do not strictly represent additional lines (in both wholesale and retail results). Specifically these include changes to existing lines, such as conversions, number changes, PIC changes, and class of service changes. Beginning with Aug 01 results Quest developed the capability to exclude "Change" service orders that do not involve installation of lines. According to this definition, the Applicable Due Date can change, but successive customer-initiated due date changes or delays, up to the point when a Quest-initiated due date change occurs. At that point, the Applicable Due Date becomes fixed (i.e., with no further changes) as the date on which it was set prior to the first Quest-initiated due date change, if any. Following the first Quest-initiated due date change, any further customer-initiated due date changes or delays are measured as time intervals that are subtracted as indicated in the formula. Those delay time intervals are calculated or stated in the description. (Though infrequent, it cases where multiple Quest-initiated due date changes occur, the stated method for calculating delay intervals is applied to each pair of Quest-initiated due date change and subsequent customer-initiated due date change or delay. The intervals thus calculated from each pairing of Quest and customer-initiated due dates are summed and then subtracted as indicated in the formula.) The result of this approach is that Quest-initiated impacts on intervals are counted in the reported interval, and customer-initiated impacts on intervals are not counted in the reported interval.

OP-7 – Coordinated “Hot Cut” Interval – Unbundled Loop

Purpose: Evaluates the duration of completing coordinated “hot cuts” of unbundled loops, spanning as the time actually involved in disconnecting the loop from the Qwest network and reconnecting the loop.	
Description: Measures the average time to complete coordinated “hot cuts” for unbundled loops, based on intervals beginning with the “lift” time and ending with the completion time of Qwest’s applicable tests for the loop. <ul style="list-style-type: none"> • Includes all coordinated hot cuts of unbundled loops that are completed during the reporting period, subject to exclusions specified below • “Hot cut” refers to moving the service of existing customers from Qwest’s switchframes to the CLEC’s equipment, via unbundled loops, that will serve the customers. • “Lift” time is defined as when Qwest disconnects the existing loop. • “Completion time” is defined as when Qwest completes the applicable tests after connecting the loop to the CLEC. 	
Reporting Period: One month	Unit of Measure: Hours and Minutes
Reporting Comparisons: CLEC aggregate and individual CLEC results	Disaggregation Reporting: Statewide level
Formula: $\frac{\sum[\text{Completion time} - \text{Lift time}]}{\text{(Total Number of unbundled loops with coordinated cutovers completed in the reporting period)}}$	
Exclusions: <ul style="list-style-type: none"> • Time intervals associated with CLEC-covered delays • Records missing data essential to the calculation of the measurement per the FID • Invalid start/stop dates/times or invalid scheduled date times 	
Product Reporting: Coordinated Unbundled Loops – Reported separately for: <ul style="list-style-type: none"> • Analog Loops • All other Loop Types 	Standard: Oregon 10 (top of OP-10) (Coordinated Cuts On Time)
Availability: <p style="text-align: center;">Available</p>	Notes:

OP-13 – Coordinated Cuts On Time – Unbundled Loop

Purpose:

Evaluates the percentage of coordinated cuts of unbundled loops that are completed on time, focusing on cuts completed within one hour of the committed order due time and the percent that were started without CLEC approval.

Description:

- Includes all LSRs for coordinated cuts of unbundled loops that are completed/dropped during the reporting period, subject to exclusions specified below
- OP-13A – Measures the percentage of LSRs (CLEC orders) for all coordinated cuts of unbundled loops that are started and completed on time. For coordinated loop cuts to be counted as "on time" in this measurement, the CLEC must agree to the start time, and Qwest must (1) receive verbal CLEC approval before starting the cut or lifting the loop, (2) complete the physical work and appropriate tests, (3) complete the Qwest portion of any associated LNP orders and (4) call the CLEC with completion information, all within one hour of the time interval defined by the committed order due time.
- OP-13B – Measures the percentage of all LSRs for coordinated cuts of unbundled loops that are actually started without CLEC approval.
- "Scheduled start time" is defined as the confirmed appointment time (as stated on the FOC), or a newly negotiated appointment time.
- The "committed order due time" is based on the number and type of loops involved in the cut and is calculated by adding the applicable time interval from the following list to the scheduled start time:
 - Analog unbundled loops:
 - 1 to 16 lines: 1 Hour
 - 17 to 24 lines: 2 Hours
 - 25+ lines: Project*
 - All other unbundled loops:
 - 1 to 5 lines: 1 Hour
 - 6 to 8 lines: 2 Hours
 - 9 to 11 lines: 3 Hours
 - 12 to 24 lines: 4 Hours
 - 25+ lines: Project*
- *For Projects scheduled due dates and scheduled start times will be negotiated between CLEC and Qwest, but no committed order due time is established. Therefore, projects are not included in OP-13A (see exclusion below).
- "Stop" time is defined as when Qwest notifies the CLEC that the Qwest physical work and the appropriate tests have been successfully accomplished, including the Qwest portion of any coordinated LNP orders.
- Time intervals following the scheduled start time or during the cutover process associated with customer-caused delays are subtracted from the actual cutover duration.
- Where Qwest's records of completed coordinated cut transactions are missing evidence of CLEC approval of the cutover, the cut will be counted as a miss under both OP-13A and OP-13B.

Reporting Period: One month

Unit of Measure: Percent

Reporting Comparisons: CLEC aggregate and individual CLEC results

Disaggregation Reporting: Statewide level
 Results for this measurement will be reported according to:
 OP-13A Cuts Completed On Time
 OP-13B Cuts Started Without CLEC Approval

OP-13 – Coordinated Cuts On Time – Unbundled Loop (continued)

Formula:

- OP-13A = (Count of LSRs for Coordinated Unbundled Loop cuts completed "On Time") / (Total Number of LSRs for Coordinated Unbundled Loop Cuts completed in the reporting period) x 100
- OP-13B = (Count of LSRs for Coordinated Unbundled Loop cuts whose actual start time occurs without CLEC approval) / (Total Number of LSRs for Coordinated Unbundled Loop Cuts completed in the reporting period) x 100

Exclusions:

Applicable to OP-13A:

- Loop cuts that involve CLEC-requested non-standard methodologies, processes, or timelines.

OP-13A & OP-13B

- Records with invalid completion dates.
- Records missing data essential to the calculation of the measurement per the PD which are not otherwise designated to be "counted as a miss".
- Invalid start/stop dates/times or invalid scheduled data times.
- Projects involving 25 or more lines.

Product Reporting: Coordinated Unbundled

Loops – Reported separately for:

- Analog Loops
- All Other Loops

Standard:

OP-13A: 65 Percent or more
OP-13B: Diagnostic

Availability:

Available

Notes:

1. In results from Aug 00 to Dec 00 orders with CLEC caused delays are excluded. Beginning with Jan 01 results, only CLEC caused delay time is excluded from the measure.

OP-15 – Interval for Pending Orders Delayed Past Due Date

Purpose:

Evaluates the extent to which Qwest's pending orders are late, focusing on the average number of days the pending orders are delayed past the Applicable Due Date, as of the end of the reporting period.

Description:

OP-15A – Measures the average number of business days that pending orders are delayed beyond the Applicable Due Date for reasons attributed to Qwest.

- Includes all pending inward orders (Change, New, and Transfer order types) for which the Applicable Due Date recorded by Qwest has been missed, subject to exclusions specified below. Change order types included in this measurement consist of all "C" orders representing inward activity (with "T" and "T" action coded line USOCs).^{NOTE 2}
- The Applicable Due Date is the original due date or, if changed or delayed by the customer, the most recently revised due date, subject to the following: If Qwest changes a due date for Qwest reasons, the Applicable Due Date is the customer-initiated due date, if any, that is (a) subsequent to the original due date and (b) prior to a Qwest-initiated, changed due date, if any.^{NOTE 1}
- Time intervals associated with customer-initiated due date changes or delays occurring after the Applicable Due Date, as applied in the formula below, are calculated by subtracting the latest Qwest-initiated due date, if any, following the Applicable Due Date, from the subsequent customer-initiated due date, if any.^{NOTE 3}

OP-15B – Reports the number of pending orders measured in the numerator of OP-15A that were delayed for Qwest facility reasons.

Reporting Period: One month

Unit of Measure:

OP-15A – Average Business Days

OP-15B – Number of orders pending facilities

Reporting Comparisons:

CLEC aggregate, individual CLEC, Qwest retail

Disaggregation Reporting:

Statewide level

Formula:

OP-15A = $\sum[(\text{Last Day of Reporting Period}) - (\text{Applicable Due Date of Late Pending Order}) - (\text{Time intervals associated with customer-initiated due date changes or delays occurring after the Applicable Due Date})] / (\text{Total Number of Pending Orders Delayed for Qwest reasons as of the last day of Reporting Period})$

OP-15B = (Count of pending orders measured in numerator of OP-15A that were delayed for Qwest facility reasons)

Exclusions:

- Disconnect, From (another form of disconnect) and Record order types.
- Records involving official company services.
- Records with invalid due dates or application dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PM.

OP-15 – Interval for Pending Orders Delayed Past Due Date (continued)

Product Reporting:		Standards: OP-15B = diagnostic only
		For OP-15A:
• Resale		
Residential single line service		Diagnostic (Expectation: Parity with retail service)
Business single line service		Diagnostic (Expectation: Parity with retail service)
Centrex		Diagnostic (Expectation: Parity with retail service)
Centrex 21		Diagnostic (Expectation: Parity with retail service)
PBX Trunk		Diagnostic (Expectation: Parity with retail service)
Basic ISDN		Diagnostic (Expectation: Parity with retail service)
Qwest DSL		Diagnostic (Expectation: Parity with retail service)
Primary ISDN		Diagnostic (Expectation: Parity with retail service)
DS0		Diagnostic (Expectation: Parity with retail service)
DS1		Diagnostic (Expectation: Parity with retail service)
DS3 and higher bit-rate services (aggregate)		Diagnostic (Expectation: Parity with retail service)
Frame Relay		Diagnostic (Expectation: Parity with retail service)
• Unbundled Network Element – Platform (UNE-P) (POTS)		Diagnostic (Expectation: Parity with retail service)
• Shared Loop/Line Sharing		Diagnostic
• Sub-Loop Unbundling		Diagnostic
•		
• LIS Trunks		Diagnostic (Expectation: Parity with Feature Group D (aggregate)) (separately reported)
• Unbundled Dedicated Interoffice Transport (UDIT)		
UDIT – DS1 level		Diagnostic (Expectation: Parity with DS1 Private Line Service)
UDIT – Above DS1 level		Diagnostic (Expectation: Parity with Private Line Services above DS1 level)
Dark Fiber – IOF		Diagnostic
• Unbundled Loops:		
Analog Loop		Diagnostic (Expectation: Parity with retail Res and Bus POTS with dispatch)
Non-loaded Loop (2-wire)		Diagnostic (Expectation: Parity with retail ISDN dial service)
Non-loaded Loop (4-wire)		Diagnostic (Expectation: Parity with retail DS1)
DS1-capable Loop		Diagnostic (Expectation: Parity with retail DS1)
ISDN-capable Loop		Diagnostic (Expectation: Parity with retail ISDN dial service)
ADSL-qualified Loop		Diagnostic (Expectation: Parity with retail Qwest DSL with dispatch)
Loop types of DS3 or higher bit rate (aggregate)		Diagnostic (Expectation: Parity with retail DS3 and higher bit-rate services (aggregate))
Dark Fiber – Loop		Diagnostic
• E911/911 Trunks		Diagnostic (Expectation: Parity with retail E911/911 Trunks)
• Enhanced Extended Links (EELs)		Diagnostic
Availability:	Notes:	
Available	1. Through Jan 01 results reported include products that flow through the design process only. Beginning with Feb 01, results reported include both design flow and non-design flow for products.	

OP-15 – Interval for Pending Orders Delayed Past Due Date (continued)

2. Prior to Aug 01 results the specified Change order types (i.e., with "T" & "T" action codes) included some orders that do not strictly represent additional lines (in both wholesale and retail results). Specifically these include changes to existing lines, such as conversions, number changes, PIC changes, and class of service changes. Beginning with Aug 01 results Qwest developed the capability to exclude "Change" service orders that do not involve installation of lines.
3. According to this definition, the Applicable Due Date can change, per successive customer-initiated due date changes or delays, up to the point when a Qwest-initiated due date change occurs. At that point, the Applicable Due Date becomes fixed (i.e., with no further changes) as the date on which it was set prior to the first Qwest-initiated due date change, if any. Following the first Qwest-initiated due date change, any further customer-initiated due date changes or delays are measured as time intervals that are subtracted as indicated in the formula. These delay time intervals are calculated as stated in the description. (Though infrequent, in cases where multiple Qwest-initiated due date changes occur, the stated method for calculating delay intervals is applied to each pair of Qwest-initiated due date change and subsequent customer-initiated due date change or delay. The intervals thus calculated from each pairing of Qwest and customer-initiated due dates are summed and then subtracted as indicated in the formula.) The result of this approach is that Qwest-initiated impacts on intervals are counted in the reported interval, and customer-initiated impacts on intervals are not counted in the reported interval.

MR-3 – Out of Service Cleared within 24 Hours

Purpose:

Evaluates timeliness of repair for specified services, focusing on trouble reports where the out-of-service trouble reports were cleared within the standard estimate for specified services (i.e., 24 hours for out-of-service conditions).

Description:

Measures the percentage of out of service trouble reports, involving specified services, that are cleared within 24 hours of receipt of trouble reports from CLECs or from retail customers.

- Includes all trouble reports, closed during the reporting period, which involve a specified service that is out-of-service (i.e., unable to place or receive calls), subject to exclusions specified below.
- Time measured is from date and time of receipt to date and time trouble is indicated as cleared.

Reporting Period: One month

Unit of Measure: Percent

Reporting Comparisons:

CLEC aggregate, individual CLEC and Qwest Retail results

Disaggregation Reporting: Statewide level.

- Results for product/services listed in Product Reporting under "MSA-Type Disaggregation" will be disaggregated and reported according to trouble reports involving:
 - MR-3A Dispatches within MSAs;
 - MR-3B Dispatches outside MSAs; and
 - MR-3C No dispatches.
- Results for products/services listed in Product Reporting under "Zone-type Disaggregation" will be disaggregated according to trouble reports involving:
 - MR-3D In Interval Zone 1 areas; and
 - MR-3E In Interval Zone 2 areas.

Formula:

(Number of Out of Service Trouble Reports closed in the reporting period that are cleared within 24 hours) / (Total Number of Out of Service Trouble Reports closed in the reporting period) x 100

Explanation: Percentage is obtained by dividing the total number of OOS reports cleared within 24 hours by the total number of OOS reports closed during the measurement period.

Exclusions:

- Trouble reports coded as follows:
 - For products measured from MTAS data (products listed for MSA-type disaggregation), trouble reports coded to disposition codes for: Customer Action (6); Non-Telco Plant (11); Trouble Beyond the Network Interface (12); and Miscellaneous – Non-Dispatch, non-Qwest (includes CPE, Customer Instruction, Carrier, Alternate Provider (13);
 - For products measured from WFA (Workforce Administration) data (products listed for Zone-type disaggregation) trouble reports coded to trouble codes for Carrier Action (IEC) and Customer Provided Equipment (CPE).
- Subsequent trouble reports of any trouble before the original trouble report is closed.
- Information tickets generated for internal Qwest system/network monitoring purposes.
- Time delays due to "no access" are excluded from repair time for products/services listed in Product Reporting under "Zone-type Disaggregation".
- For products measured from MTAS data (products listed for MSA-type disaggregation), trouble reports involving a "no access" delay.
- Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.
- Records involving official company services.
- Records with invalid trouble receipt dates.
- Records with invalid cleared or closed dates.

MR-3 – Out of Service Cleared within 24 Hours (Continued)

- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

MR-1 - Out of Service Cleared within 24 Hours (Continued)

Product Reporting:	Standards:
WSA Type Disaggregation -	
<ul style="list-style-type: none"> • Resale 	
Residential single line service	Parity with retail service
Business single line service	Parity with retail service
Context	Parity with retail service
Context 21	Parity with retail service
PBX Trunks	Parity with retail service
Basic ISDN	Parity with retail service
<ul style="list-style-type: none"> • Unbundled Network Element -- Platform (UNE-P) (POTS) 	Parity with appropriate retail service
<ul style="list-style-type: none"> • Shared Loop/Line Sharing 	Parity with RES and BUS POTS
<ul style="list-style-type: none"> • Loop Unbundling 	Diagnostic
Loop Type Disaggregation -	
<ul style="list-style-type: none"> • Resale 	
Qwest DSL	Parity with retail service
<ul style="list-style-type: none"> • Unbundled Loops: 	
Analog Loop	Parity with retail Res and Bus POTS
Non-loaded Loop (2 wire)	Parity with retail ISDN-BRI
ISDN-capable Loop	Parity with ISDN-BRI
ADSL-qualified Loop	Parity with retail Qwest DSL
Availability:	Notes:
<ul style="list-style-type: none"> • Available (except as noted below) 	
<ul style="list-style-type: none"> • Under Development: 	
Retail comparable for Shared Loop/Line Sharing	
• TBD	

MR-4 – All Troubles Cleared within 48 hours

Purpose:

Evaluates timeliness of repair for specified services, focusing on trouble reports of all types (both out of service and service affecting) and on the number of such trouble reports cleared within the standard estimate for specified services (i.e., 48 hours for service-affecting conditions).

Description:

Measures the percentage of trouble reports, for specified services, that are cleared within 48 hours of receipt of trouble reports from CLECs or from retail customers.

- Includes all trouble reports, closed during the reporting period, which involve a specified service, subject to exclusions specified below.
- Time measured is from date and time of receipt to date and time trouble is indicated as cleared.

Reporting Period: One month

Unit of Measure: Percent

Reporting

Comparisons:
 CLEC aggregate,
 individual CLEC
 and Qwest Retail
 results

Disaggregation Reporting: Statewide level.

- Results for product/services listed in Product Reporting under "MSA-Type Disaggregation" will be disaggregated and reported according to trouble reports involving:
 - MR-4A Dispatches within MSAs;
 - MR-4B Dispatches outside MSAs; and
 - MR-4C No dispatches.
- Results for products/services listed in Product Reporting under "Zone-type Disaggregation" will be disaggregated according to trouble reports involving:
 - MR-4D In Interval Zone 1 areas; and
 - MR-4E In Interval Zone 2 areas

Formula:

$$\left[\frac{\text{Total Trouble Reports closed in the reporting period that are cleared within 48 hours}}{\text{Total Trouble Reports closed in the reporting period}} \right] \times 100$$

Exclusions:

- Trouble reports coded as follows:
 - For products measured from MTAS data (products listed for MSA-type disaggregation), trouble reports coded to disposition codes for: Customer Action (6); Non-Teico Plant (11); Trouble Beyond the Network Interface (12); and Miscellaneous – Non-Dispatch, non-Qwest (includes CPE, Customer Instruction, Carrier, Alternate Provider (13));
 - For products measured from WFA (Workforce Administration) data (products listed for Zone-type disaggregation) trouble reports coded to trouble codes for Carrier Action (IEC) and Customer Provided Equipment (CPE).
- Subsequent trouble reports of any trouble before the original trouble report is closed.
- Information tickets generated for internal Qwest system/network monitoring purposes.
- Time delays due to "no access" are excluded from repair time for products/services listed in Product Reporting under "Zone-type Disaggregation".
- For products measured from MTAS data (products listed for MSA-type disaggregation), trouble reports involving a "no access" delay.
- Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.
- Records involving official company services.
- Records with invalid trouble receipt dates.
- Records with invalid cleared or closed dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

MR-3 – Out of Service Cleared within 24 Hours (Continued)

Product Reporting:	Standards:
MSA-Type Disaggregation -	
• Resale	
Residential single line service	Parity with retail service
Business single line service	Parity with retail service
Centrex	Parity with retail service
Centrex 21	Parity with retail service
PBX Trunks	Parity with retail service
Basic ISDN	Parity with retail service
• Unbundled Network Element – Platform (UNE-P) (POTS)	Parity with appropriate retail service
• Shared Loop/Line Sharing	Parity with RES and BUS POTS
• Sub-Loop Unbundling	Diagnostic
Zone-Type Disaggregation -	
• Resale	
Qwest DSL	Parity with retail service
• Unbundled Loops:	
Analog Loop	Parity with retail Res and Bus POTS
Non-loaded Loop (2 wire)	Parity with retail ISDN-BRI
ISDN-capable Loop	Parity with retail ISDN-BRI
ADSL-qualified Loop	Parity with retail Qwest DSL
Availability:	Notes:
• Available (except as noted below)	
• Under Development:	
Retail comparable for Shared Loop/Line Sharing -	
TBD	

MR-5 – All Troubles Cleared within 4 hours

Purpose:
 Evaluates timeliness of repair for specified services, focusing on all trouble reports of all types (including out of service and service affecting troubles) and on the number of such trouble reports cleared within the standard estimate for specified services (i.e., 4 hours).

Description:
 Measures the percentage of trouble reports for specified services that are cleared within 4 hours of receipt of trouble reports from CLECs or from retail customers.

- Includes all trouble reports, closed during the reporting period, which involve a specified service, subject to exclusions specified below.
- Time measured is from date and time of receipt to date and time trouble is cleared.

Reporting Period: One month	Unit of Measure: Percent
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Reporting Comparisons: CLEC aggregate, individual CLEC and Qwest Retail results	Disaggregation Reporting: Statewide level. Results for listed products will be disaggregated according to trouble reports: MR-5A In Interval Zone 1 areas; and MR-5B In Interval Zone 2 areas.
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Formula:

$$\left[\frac{\text{[(Number of Trouble Reports closed in the reporting period that are cleared within 4 hours)]}}{\text{[Total Trouble Reports closed in the reporting period]}} \right] \times 100$$

Exclusions:

- Trouble reports coded as follows:
 - For products measured using WFA (Workforce Administration) data (products listed for Zone-type disaggregation) trouble reports coded to trouble codes for Carrier Action (CA) and Customer Provided Equipment (CPE).
- Subsequent trouble reports of any trouble before the original trouble report is closed.
- Information tickets generated for internal Qwest system/network monitoring purposes.
- Time delays due to "no access" are excluded from repair time.
- Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.
- Records involving official company services.
- Records with invalid trouble receipt dates.
- Records with invalid cleared or closed dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PD.

MR-5 – All Troubles Cleared within 4 hours (continued)

Product Reporting:	Standards:
Zone-Type Disaggregation -	
• Rosale:	
Primary ISDN	Parity with retail service
DS0	Parity with retail service
DS1	Parity with retail service
DS3 and higher bit-rate services (aggregate)	Parity with retail service
Frame Relay	Parity with retail service
• LIS Trunks	Parity with Feature Group D (aggregate)
• Unbundled Dedicated Interoffice Transport (UDIT)	
UDIT – DS1 level	Parity with DS1 Private Line Service
UDIT – Above DS1 level	Parity with Private Line- Services above DS1 level
• Unbundled Loops:	
Non-loaded Loop (4-wire)	Parity with retail DS1
DS1-capable Loop	Parity with retail DS1
Loop types of DS3 and higher bit-rates (aggregate)	Parity with retail DS3 and higher bit-rate services (aggregate)
• E911/911 Trunks	Parity with retail E911/911 Trunks
• Enhanced Extended Links (EELs)	Diagnostic
Availability: Available	Notes: .

MR-6 – Mean Time to Restore

Purpose: Evaluates timeliness of repair, focusing how long it takes to restore services to proper operation.	
Description: Measures the time actually taken to clear trouble reports. <ul style="list-style-type: none"> • Includes all trouble reports closed during the reporting period, subject to exclusions specified below. • Includes customer direct reports, customer-relayed reports, and test assist reports that result in a trouble report. • Time measured is from date and time of receipt to date and time trouble is cleared. 	
Reporting Period: One month	Unit of Measure: Hours and Minutes
Reporting Comparisons: CLEC aggregate, individual CLEC and Qwest Retail results	Disaggregation Reporting: Statewide level. <ul style="list-style-type: none"> • Results for product/services listed in Product Reporting under "MSA-Type Disaggregation" will be reported according to trouble reports involving: <ul style="list-style-type: none"> MR-6A Dispatches within MSAs; MR-6B Dispatches outside MSAs; and MR-6C No dispatches. • Results for products/services listed in Product Reporting under "Zone-type Disaggregation" will be disaggregated according to trouble reports involving: <ul style="list-style-type: none"> MR-6D In Interval Zone 1 areas; and MR-6E In Interval Zone 2 areas.
Formula: $\frac{\sum[(\text{Date \& Time Trouble Report Cleared}) - (\text{Date \& Time Trouble Report Opened})]}{(\text{Total number of Trouble Reports closed in the reporting period})}$	
Exclusions: <ul style="list-style-type: none"> • Trouble reports coded as follows: <ul style="list-style-type: none"> - For products measured from MTAS data (products listed for MSA-type disaggregation), trouble reports coded to disposition codes for: Customer Action (6); Non-Telco Plant (11); Trouble Beyond the Network Interface (12); and Miscellaneous – Non-Dispatch, non-Qwest (includes CPE, Customer Instruction, Carrier, Alternate Provider (13)); - For products measured from WFA (Workforce Administration) data (products listed for Zone-type disaggregation) trouble reports coded to trouble codes for Carrier Action (IEC) and Customer Provided Equipment (CPE). • Subsequent trouble reports of any trouble before the original trouble report is closed. • Information tickets generated for internal Qwest system/network monitoring purposes. • Time delays due to "no access" are excluded from repair time for products/services listed in Product Reporting under "Zone-type Disaggregation". • For products measured from MTAS data (products listed for MSA-type disaggregation), trouble reports involving a "no access" delay. • Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete. • Records involving official company services. • Records with invalid trouble receipt dates. • Records with invalid cleared or closed dates. • Records with invalid product codes. • Records missing data essential to the calculation of the measurement per the PID. 	

MR-6 – Mean Time to Restore (Continued)

Product Reporting:	Standards:
MSA-Type Disaggregation -	
• Resale	
Residential single line service	Parity with retail service
Business single line service	Parity with retail service
Centrex	Parity with retail service
Centrex 21	Parity with retail service
PBX Trunks	Parity with retail service
Basic ISDN	Parity with retail service
• Unbundled Network Element – Platform (UNE-P) (POTS)	Parity with like retail service
• Shared Loop/Line Sharing	Parity with RES and BUS POTS
• Sub-Loop Unbundling	Diagnostic
Zone-Type Disaggregation -	
• Resale	
Qwest DSL	Parity with retail service
Primary ISDN	Parity with retail service
DS0	Parity with retail service
DS1	Parity with retail service
DS3 and higher bit-rate services (aggregate)	Parity with retail service
Frame Relay	Parity with retail service
• LIS Trunks	Parity with Feature Group D (aggregate)
• Unbundled Dedicated Interoffice Transport (UDIT)	
UDIT – DS1 level	Parity with retail DS1 Private Line
UDIT – Above DS1 level	Parity with retail Private Lines above DS1 level
Dark Fiber – IOF	Diagnostic
• Unbundled Loops:	
Analog Loop	Parity with retail Res and Bus POTS
Non-loaded Loop (2-wire)	Parity with retail ISDN BRI
Non-loaded Loop (4-wire)	Parity with retail DS1 Private Line
DS1-capable Loop	Parity with retail DS1 Private Line
ISDN-capable Loop	Parity with retail ISDN BRI
ADSL-qualified Loop	Parity with retail Qwest DSL
Loop types of DS3 and higher bit-rates (aggregate)	Parity with retail DS3 and higher bit-rate Private Line services (aggregate)
Dark Fiber – Loop	Diagnostic
• E911/911 Trunks	Parity with retail E911/911 Trunks
• Enhanced Extended Links (EELs)	Diagnostic
Availability:	Notes:
• Available (except as noted below)	1. Saturday is counted as a business day when
• Under Development:	the repair is completed on Saturday.
Retail comparable for Shared Loop/Line Sharing - TBD	

MR-7 – Repair Repeat Report Rate

Purpose:

Evaluates the accuracy of repair actions, focusing on the number of repeated trouble reports received for the same trouble within a specified period (30 calendar days).

Description:

Measures the percentage of trouble reports that are repeated within 30 days on end user lines and circuits.

- Includes all trouble reports closed during the reporting period that are received within thirty (30) days of the previous trouble report for the same service (regardless of whether the report is about the same type of trouble for that service), subject to exclusions specified below.
- In determining same service Qwest will compare the end user telephone number or circuit number of the trouble reports with reports received in the prior 30 days.
- Includes reports due to Qwest network or system causes, customer-directed and customer-related reports.
- The 30-day period applied in the numerator of the formula below is from the date and time that the immediately-preceding trouble report is closed to the date and time that the next, or "repeat" trouble report is received (i.e., opened).

Reporting Period: One month

Unit of Measure: Percent

Reporting Comparisons:
 CLEC
 aggregate,
 individual
 CLEC and
 Qwest Retail
 results

Disaggregation Reporting: Statewide level.

- Results for product/services listed in Product Reporting under "MSA-Type Disaggregation" will be reported according to trouble reports involving:
 MR-7A Dispatches within MSAs;
 MR-7B Dispatches outside MSAs; and
 MR-7C No dispatches.
- Results for products/services listed in Product Reporting under "Zone-type Disaggregation" will be disaggregated according to trouble reports involving:
 MR-7D In Interval Zone 1 areas; and
 MR-7E In Interval Zone 2 areas.

Formula:

$$\left(\frac{\text{Total repeated trouble reports closed within the reporting period that were received within 30 calendar days of when the preceding initial trouble report closed}}{\text{Total number of Trouble Reports Closed in the reporting period}} \right) \times 100$$

Exclusions:

- Trouble reports coded as follows:
 - For products measured from MTAS data (products listed for MSA-type disaggregation) trouble reports coded to disposition codes for: Customer Action (9); Non-Talk Plans (11); Trouble Beyond the Network Interface (12); and Miscellaneous – Non-Dispatch, non-Qwest (includes CPE, Customer Instruction, Carrier, Alternate Provider (13)).
 - For products measured from WFA (Workforce Administration) data (products listed for Zone-type disaggregation) trouble reports coded to trouble codes for Carrier Action (REO) and Customer Provided Equipment (CPE).
- Subsequent trouble reports of any trouble before the original trouble report is closed
- Information tickets generated for internal Qwest system/network monitoring purposes.
- Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.
- Records involving official company services.
- Records with invalid trouble receipt dates.
- Records with invalid cleared or closed dates.

MR-7 – Repair Repeat Report Rate (Continued)

- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PD.

MR-7 – Repair Repeat Report Rate (Continued)

Product Reporting:	Standards:
MSA-Type Disaggregation -	
• Resale	
Residential single line service	Parity with retail service
Business single line service	Parity with retail service
Centrex	Parity with retail service
Centrex 21	Parity with retail service
PBX Trunks	Parity with retail service
Basic ISDN	Parity with retail service
• Unbundled Network Element – Platform (UNE-P) (POTS)	Parity with like retail service
• Shared Loop/Line Sharing	Diagnostic
• Sub-Loop Unbundling	Diagnostic
Zone-Type Disaggregation -	
• Resale	
Qwest DSL	Parity with retail service
Primary ISDN	Parity with retail service
DS0	Parity with retail service
DS1	Parity with retail service
DS3 and higher bit-rate services (aggregate)	Parity with retail service
Frame Relay	Parity with retail service
• LIS Trunks	Parity with Feature Group D (aggregate)
• Unbundled Dedicated Interoffice Transport (UDIT)	
UDIT – DS1 level	Parity with retail DS1 Private Line
UDIT – Above DS1 level	Parity with retail Private Lines above DS1 level
Dark Fiber – IOF	Diagnostic
• Unbundled Loops:	
Analog Loop	Parity with retail Res and Bus POTS
Non-loaded Loop (2-wire)	Parity with retail ISDN BRI
Non-loaded Loop (4-wire)	Parity with retail DS1 Private Line
DS1-capable Loop	Parity with retail DS1 Private Line
ISDN-capable Loop	Parity with retail ISDN BRI
ADSL-qualified Loop	Parity with retail Qwest DSL
Loop types of DS3 and higher bit-rates (aggregate)	Parity with retail DS3 and higher bit-rate Private Line services (aggregate)
Dark Fiber – Loop	Diagnostic
• E911/911 Trunks	Parity with retail E911/911 Trunks
• Enhanced Extended Links (EELs)	Diagnostic
Availability: Available	Notes:

MR-8 – Trouble Rate

Purpose:
 Evaluates the overall rate of trouble reports as a percentage of the total installed base of the service or element.

Description:
 Measures trouble reports by product and compares them to the number of lines in service.

- Includes all trouble reports closed during the reporting period, subject to exclusions specified below.
- Includes all applicable trouble reports, including those that are out of service and those that are only service-affecting.

Reporting Period: One month	Unit of Measure: Percent
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Reporting Comparisons: CLEC aggregate, individual CLEC and Qwest Retail results	Disaggregation Reporting: Statewide level.
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Formula:

$$\left[\frac{\text{Total number of trouble reports closed in the reporting period involving the specified service grouping}}{\text{Total number of the specified services that are in service in the reporting period}} \right] \times 100$$

Exclusions:

- Trouble reports coded as follows:
 - For products measured from MTAS data, trouble reports coded to disposition codes for: Customer Action (6); Non-Telco Plant (11); Trouble Beyond the Network Interface (12); and Miscellaneous – Non-Dispatch, non-Qwest (includes CPE, Customer Instruction, Carrier, Alternate Provider (13);
 - For products measured from WFA data trouble reports coded to trouble codes for Carrier Action (IEC) and Customer Provided Equipment (CPE).
- Subsequent trouble reports of any trouble before the original trouble report is closed.
- Information tickets generated for internal Qwest system/network monitoring purposes.
- Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.
- Records involving official company services.
- Records with invalid trouble receipt dates.
- Records with invalid cleared or closed dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

MR-8 – Trouble Rate (continued)

Product Reporting:	Standards:
• Resale	
Residential single line service	Parity with retail service
Business single line service	Parity with retail service
Centrex ^{NOTE 1}	Parity with retail service
Centrex 21 ^{NOTE 1}	Parity with retail service
PBX Trunks	Parity with retail service
Basic ISDN ^{NOTE 2}	Parity with retail service
Qwest DSL	Parity with Qwest DSL service
Primary ISDN ^{NOTE 2}	Parity with retail service
DS0	Parity with retail service
DS1	Parity with retail service
DS3 and higher bit-rate services (aggregate)	Parity with retail service
Frame Relay	Parity with retail service
• Unbundled Network Element – Platform (UNE-P) (POTS)	Parity with like retail service
• Shared Loop/Line Sharing	Parity with RES and BUS POTS
• Sub-Loop Unbundling	Diagnostic
• LIS Trunks	Parity with Feature Group D (aggregate)
• Unbundled Dedicated Interoffice Transport (UDIT)	
UDIT – DS1 level	Parity with retail DS1 Private Line Service
UDIT – Above DS1 level	Parity with retail Private Lines above DS1 level
Dark Fiber – IOF	Diagnostic
• Unbundled Loops:	
Analog Loop	Parity with retail Res and Bus POTS
Non-loaded Loop (2-wire)	Parity with retail ISDN BRI
Non-loaded Loop (4-wire)	Parity with retail DS1 Private Line
DS1-capable Loop	Parity with retail DS1 Private Line
ISDN-capable Loop	Parity with retail ISDN BRI
ADSL-qualified Loop	Parity with retail Qwest DSL
Loop types of DS3 and higher bit-rates (aggregate)	Parity with retail DS3 and higher bit-rate services (aggregate)
Dark Fiber – Loop	Diagnostic
• E911/911 Trunks	Parity with retail E911/911 Trunks
• Enhanced Extended Links (EELs)	Diagnostic
Availability:	Notes:
• Available (except as noted below)	1. Prior to Mar 01 data Centrex and Centrex 21 results were reported combined under the Centrex heading.
• Under Development:	2. Prior to Mar 01 data Resale Basic and Primary ISDN results were reported combined under the Resale ISDN POTS heading.
– Retail comparable for Shared Loop/Line Sharing - TBD	

MR-9 – Repair Appointments Met**Purpose:**

Evaluates the extent to which Qwest repairs services for Customers by the appointment date and time.

Description:

Measures the percentage of trouble reports for which the appointment date and time is met.

- Includes all trouble reports closed during the reporting period, subject to exclusions specified below.
- Time measured is from date and time of receipt to date and time trouble is indicated as cleared.

Reporting Period: One month

Unit of Measure: Percent

Reporting

Comparisons: CLEC aggregate, individual CLEC and Qwest Retail results

Disaggregation Reporting: Statewide level.

Results for listed services will be disaggregated and reported according to trouble reports involving:

- MR-9A Dispatches within MSAs;
- MR-9B Dispatches outside MSAs; and
- MR-9C No dispatches.

Formula:

$$\left[\frac{\text{Total Trouble Reports Cleared by appointment date and time}}{\text{Total Trouble Reports Closed in the Reporting Period}} \right] \times 100$$

Exclusions:

- Trouble reports coded as follows:
 - For products measured from MTAS data, trouble reports coded to disposition codes for: Customer Action (6); Non-Telco Plant (11); Trouble Beyond the Network Interface (12); and Miscellaneous – Non-Dispatch, non-Qwest (includes CPE, Customer Instruction, Carrier, Alternate Provider (13);
- Subsequent trouble reports of any trouble before the original trouble report is closed.
- Information tickets generated for internal Qwest system/network monitoring purposes.
- Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.
- Records involving official company services.
- Records with invalid trouble receipt dates.
- Records with invalid cleared or closed dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

Product Reporting:

Resale:

Residential single line service
 Business single line service
 Centrex
 PBX Trunks
 Basic ISDN
 Unbundled Elements – Platform (UNE-P)
 (POTS)

Standard: Parity**Availability:**

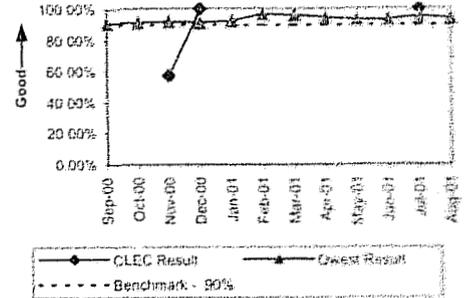
Available

Notes:

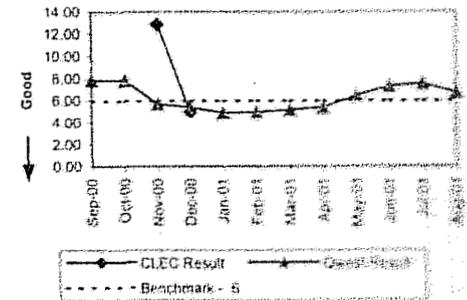
Docket TC 01-__
Qwest Corporation
Exhibits to the Affidavit of Jean M. Liston
Checklist Item 4 – Unbundled Loop, NIDs and Line Splitting
Cover Sheet for Exhibit JML-LOOP-14
October 24, 2001

Checklist #4 - Unbundled Loop - Analog Installation

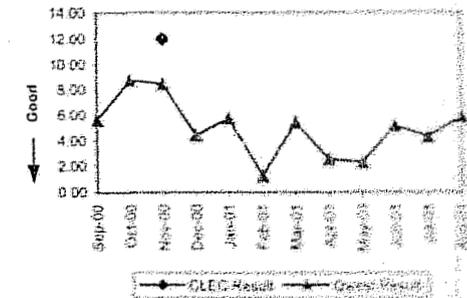
Installation Commitments Met (Percent) (OP-3) - Interval Zone One								
Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
Sep-00				698	767	91.00%		
Oct-00				779	853	91.32%		
Nov-00	4	3	57.14%	688	750	91.73%	3.72	1.26
Dec-00	4	1	100.00%	503	651	91.09%	-0.62	-1.36
Jan-01				659	716	92.04%		
Feb-01				584	605	96.53%		
Mar-01				733	765	95.82%		
Apr-01				635	672	94.49%		
May-01				792	853	92.85%		
Jun-01				664	713	93.13%		
Jul-01	5	1	100.00%	722	758	95.25%	-0.22	-1.14
Aug-01				807	861	93.73%		



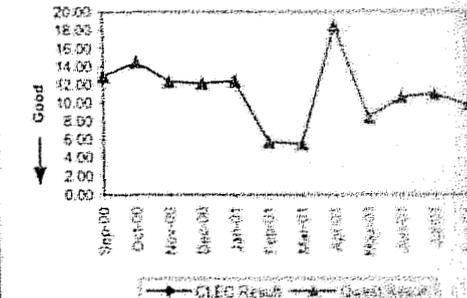
Installation Interval (Average Days) (OP-4) - Interval Zone One								
Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
Sep-00				6028	767	7.86		
Oct-00				6681	852	7.84		
Nov-00	60	7	12.86	4271	750	5.69	2.03	0.24
Dec-00	20	4	5.00	3511	650	5.40	-0.11	-1.06
Jan-01				3499	716	4.89		
Feb-01				3003	604	4.97		
Mar-01				3952	764	5.17		
Apr-01				3514	672	5.38		
May-01				5485	853	6.43		
Jun-01				5183	713	7.27		
Jul-01				5926	790	7.50		
Aug-01				6043	898	6.73		



Delayed Days for Non-Facility Reasons (Average Days) (OP-6A) - Interval Zone One								
Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
Sep-00				135	24	5.62		
Oct-00				175	20	8.75		
Nov-00	36	3	12.00	101	12	8.42	0.71	-0.57
Dec-00				71	16	4.44		
Jan-01				109	19	5.74		
Feb-01				9	7	1.29		
Mar-01				65	12	5.42		
Apr-01				18	7	2.57		
May-01				60	26	2.31		
Jun-01				119	23	5.17		
Jul-01				181	42	4.31		
Aug-01				327	56	5.84		



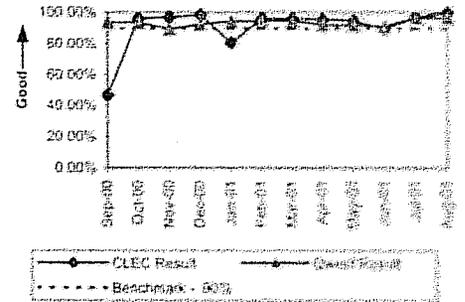
Delayed Days for Facility Reasons (Average Days) (OP-6B) - Interval Zone One								
Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
Sep-00				585	45	13.00		
Oct-00				735	54	14.54		
Nov-00				619	50	12.38		
Dec-00				511	42	12.17		
Jan-01				473	38	12.45		
Feb-01				80	14	5.71		
Mar-01				110	20	5.50		
Apr-01				553	30	18.43		
May-01				293	35	8.37		
Jun-01				276	26	10.62		
Jul-01				286	26	11.00		
Aug-01				341	35	9.74		



Checklist #4 - Unbundled Loop - Analog Installation

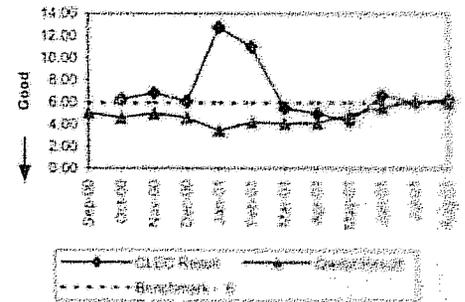
Installation Commitments Met (Percent) (OP-3) -- Interval Zone Two

Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
Sep-00	35	75	46.67%	661	707	93.49%	3.72	1.26
Oct-00	164	171	95.91%	592	633	93.52%	-1.12	-1.68
Nov-00	185	191	96.86%	506	568	89.44%	-2.89	-2.76
Dec-00	60	60	98.33%	425	459	92.59%	-1.6	-1.97
Jan-01	25	31	80.65%	474	502	94.42%	6.33	2.85
Feb-01	75	78	96.15%	392	404	94.55%	-0.57	-1.35
Mar-01	121	126	96.03%	400	423	94.56%	-0.64	-1.39
Apr-01	21	22	95.45%	473	514	92.02%	-0.58	-1.35
May-01	18	19	94.74%	531	633	91.79%	-0.46	-1.28
Jun-01	69	77	89.61%	536	588	91.16%	0.4	-0.76
Jul-01	83	86	96.51%	669	723	96.68%	0.02	-0.99
Aug-01	49	49	100.00%	866	898	96.44%	-1.31	-1.6



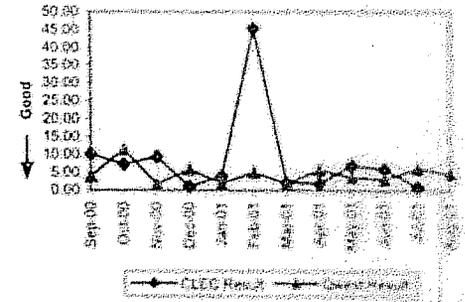
Installation Interval (Average Days) (OP-4) -- Interval Zone Two

Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
Sep-00				3598	707	5.09		
Oct-00	421	67	6.28	2931	633	4.63	1.67	0.02
Nov-00	581	85	6.84	2845	568	5.01	1.62	-0.02
Dec-00	73	12	6.08	2122	459	4.62	0.58	-0.65
Jan-01	126	10	12.80	1750	502	3.49	3.72	1.26
Feb-01	276	25	11.04	1718	404	4.25	3.72	1.26
Mar-01	11	2	5.50	1733	423	4.10	0.82	-0.5
Apr-01	10	2	5.00	2133	514	4.15	0.81	-0.51
May-01	19	3	4.33	3099	633	4.90	-0.13	-1.08
Jun-01	246	37	6.65	3263	588	5.55	0.79	-0.62
Jul-01	174	29	6.00	4564	738	6.18	-0.13	-1.08
Aug-01	182	29	6.28	5553	925	6.00	0.27	-0.83



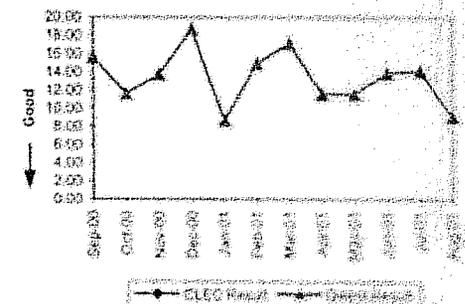
Delayed Days for Non-Facility Reasons (Average Days) (OP-6A) -- Interval Zone Two

Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
Sep-00	401	40	10.02	28	7	4.00	3.72	1.26
Oct-00	51	7	7.29	92	8	11.50	-0.4	-1.24
Nov-00	56	6	9.33	13	8	1.62	3.72	1.26
Dec-00	1	1	1.00	59	10	5.90	-0.98	-1.35
Jan-01	24	6	4.00	13	7	1.86	3.09	0.88
Feb-01	136	3	45.33	56	11	5.09	3.09	0.88
Mar-01	11	5	2.20	15	8	1.88	0.03	-0.98
Apr-01	2	1	2.00	52	9	5.78	-0.28	-1.17
May-01	7	1	7.00	69	19	3.63	1.1	-0.33
Jun-01	48	8	6.00	41	13	3.15	2.88	0.75
Jul-01	3	3	1.00	173	28	6.18	-0.75	-1.46
Aug-01				206	44	4.73		



Delayed Days for Facility Reasons (Average Days) (OP-6B) -- Interval Zone Two

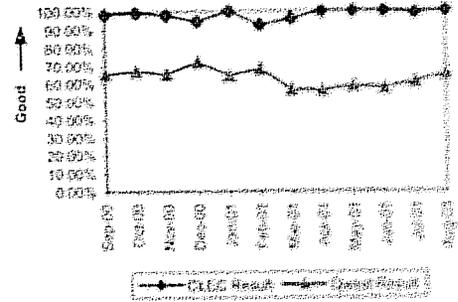
Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
Sep-00				611	39	15.67		
Oct-00				385	33	11.67		
Nov-00				717	52	13.79		
Dec-00				449	24	18.71		
Jan-01				183	21	8.71		
Feb-01				165	11	15.00		
Mar-01				258	15	17.20		
Apr-01				374	32	11.69		
May-01				383	33	11.61		
Jun-01				546	39	14.00		
Jul-01				156	11	14.18		
Aug-01				138	15	9.20		



Checklist #4 - Unbundled Loop - Analog Installation

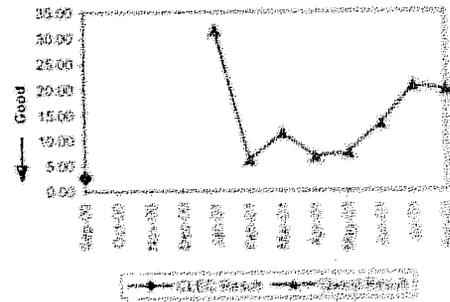
New Service Installation Quality (Percent) (OP-5) - Interval Zone One and Two

Date	GLEC Num	GLEC Denom	GLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Party Score
Sep-00	180	183	98.36%	1175	1788	65.72%	-8.26	-6.39
Oct-00	128	129	99.22%	1096	1629	67.28%	-7.44	-5.53
Nov-00	187	191	97.91%	1012	1544	65.54%	-8.28	-6.4
Dec-00	124	131	94.66%	959	1327	72.27%	-5.46	-4.32
Jan-01	48	48	100.00%	815	1260	64.68%	-5.02	-4.05
Feb-01	51	55	92.73%	820	1196	68.56%	-3.77	-3.29
Mar-01	90	102	96.08%	668	1177	56.75%	-7.69	-5.66
Apr-01	74	74	100.00%	721	1278	56.42%	-7.35	-5.47
May-01	21	21	100.00%	854	1458	58.57%	-3.83	-3.33
Jun-01	48	48	100.00%	893	1552	57.54%	-5.26	-4.56
Jul-01	81	82	98.78%	911	1495	60.94%	-6.84	-5.16
Aug-01	68	68	100.00%	1097	1676	65.45%	-5.27	-4.57



Interval for Pending Orders Delayed Past Due Date (Average Days) (OP-15A)

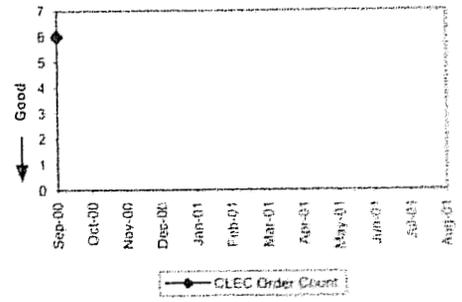
Month	GLEC Num	GLEC Denom	GLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Party Score
Sep-00	88	32	2.75					
Oct-00								
Nov-00								
Dec-00								
Jan-01				63	2	31.50		
Feb-01				93	15	6.20		
Mar-01				272	24	11.33		
Apr-01				182	27	6.74		
May-01				271	36	7.53		
Jun-01				663	50	13.26		
Jul-01				702	34	20.65		
Aug-01				1413	71	19.90		



Checklist #4 - Unbundled Loop - Analog Installation

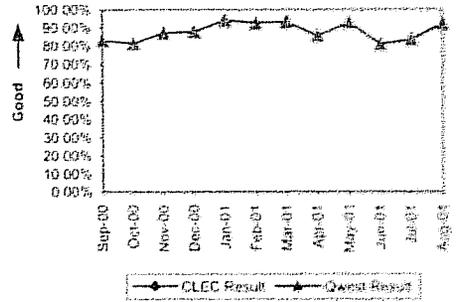
Count of Pending Orders Delayed for Facilities Reasons Unbundled Loop Analog (OP-15B)

Date	CLEC Order Count
Sep-00	6
Oct-00	
Nov-00	
Dec-00	
Jan-01	
Feb-01	
Mar-01	
Apr-01	
May-01	
Jun-01	
Jul-01	
Aug-01	

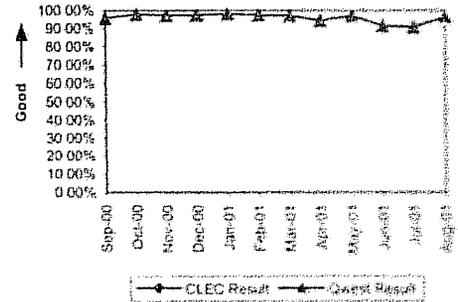


Checklist #4 - Unbundled Loop - Analog Repair

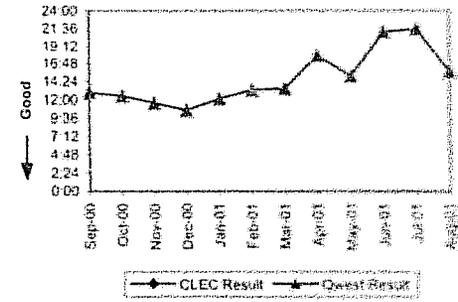
55% of Repairs Cleared within 24 hours (Percent) (MR-3) - Interval Zone One								
Date	CLEC Num	CLEC Denor	CLEC Result	Owest Num	Owest Denor	Owest Result	Mod Z Scr	Parity Score
Sep-00				847	1019	83.12%		
Oct-00				837	1029	81.34%		
Nov-00				868	996	87.15%		
Dec-00				544	619	87.88%		
Jan-01				829	879	94.31%		
Feb-01				676	729	92.73%		
Mar-01				840	909	93.40%		
Apr-01				1052	1228	85.67%		
May-01				1091	1174	92.93%		
Jun-01				1201	1482	81.04%		
Jul-01				1096	1315	83.35%		
Aug-01				997	1080	92.31%		



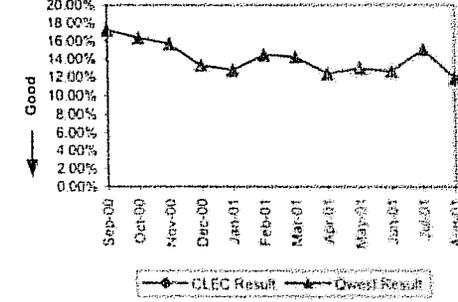
All Troubles Cleared within 48 hours (Percent) (MR-4) - Interval Zone One								
Date	CLEC Num	CLEC Denor	CLEC Result	Owest Num	Owest Denor	Owest Result	Mod Z Scr	Parity Score
Sep-00				2249	2345	95.91%		
Oct-00				2111	2156	97.91%		
Nov-00				1706	1754	97.26%		
Dec-00				1258	1292	97.37%		
Jan-01				1276	1301	98.08%		
Feb-01				1081	1109	97.48%		
Mar-01				1481	1526	97.05%		
Apr-01				1706	1808	94.36%		
May-01				1686	1736	97.12%		
Jun-01				1995	2179	91.56%		
Jul-01				1711	1886	90.72%		
Aug-01				1559	1618	96.35%		



Mean Time to Restore (Hours:Minutes) (MR-6) - Interval Zone One								
Date	CLEC Num	CLEC Denor	CLEC Result	Owest Num	Owest Denor	Owest Result	Mod Z Scr	Parity Score
Sep-00				30476:26	2345	13:00		
Oct-00				26990:53	2156	12:31		
Nov-00				20248:20	1754	11:33		
Dec-00				13764:07	1292	10:39		
Jan-01				15759:58	1301	12:07		
Feb-01				14709:34	1109	13:16		
Mar-01				20505:29	1526	13:26		
Apr-01				32385:12	1808	17:55		
May-01				26294:16	1736	15:09		
Jun-01				48033:15	2179	21:08		
Jul-01				40665:34	1886	21:34		
Aug-01				25525:52	1618	15:47		

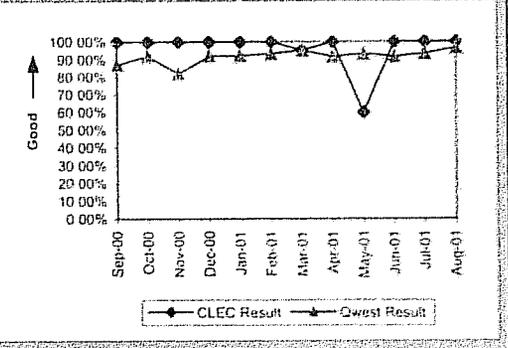


Repair Repeat Report Rate (Percent) (MR-7) - Interval Zone One								
Date	CLEC Num	CLEC Denor	CLEC Result	Owest Num	Owest Denor	Owest Result	Mod Z Scr	Parity Score
Sep-00				404	2345	17.23%		
Oct-00				357	2183	16.35%		
Nov-00				280	1782	15.71%		
Dec-00				175	1313	13.33%		
Jan-01				169	1323	12.77%		
Feb-01				164	1132	14.49%		
Mar-01				222	1558	14.25%		
Apr-01				228	1839	12.40%		
May-01				229	1765	12.97%		
Jun-01				282	2230	12.65%		
Jul-01				294	1946	15.11%		
Aug-01				197	1654	11.91%		

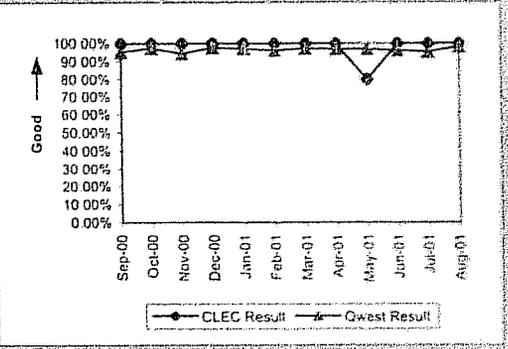


Checklist #4 - Unbundled Loop - Analog Repair

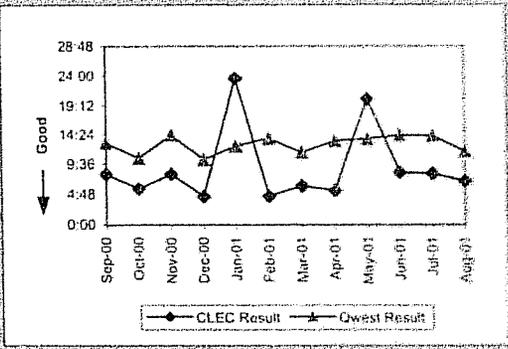
% of Service Cleared within 72 hours (Percent) (MR-3) - Interval Zone Two								
Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Mod Z Scr	Parity Score
09/01/00	6	6	100.00%	821	944	86.97%	-0.95	-1.57
09/01/00	6	5	100.00%	747	811	92.11%	-0.65	-1.4
09/01/00	6	6	100.00%	835	1018	82.02%	-1.14	-1.7
09/01/00	6	7	100.00%	687	747	91.97%	-0.78	-1.47
09/01/00	6	6	100.00%	729	791	92.16%	-0.41	-1.25
09/01/00	6	5	100.00%	556	598	93.29%	-0.99	-1.6
09/01/00	6	24	93.24%	843	886	95.15%	-0.02	-1.01
09/01/00	6	10	100.00%	1010	1102	91.65%	-0.95	-1.58
09/01/00	6	6	80.00%	952	1020	93.33%	7.94	3.83
09/01/00	6	19	100.00%	1010	1101	91.73%	-1.3	-1.79
09/01/00	6	11	100.00%	1034	1106	93.49%	-0.87	-1.53
09/01/00	6	4	100.00%	967	1002	96.51%	-0.38	-1.23



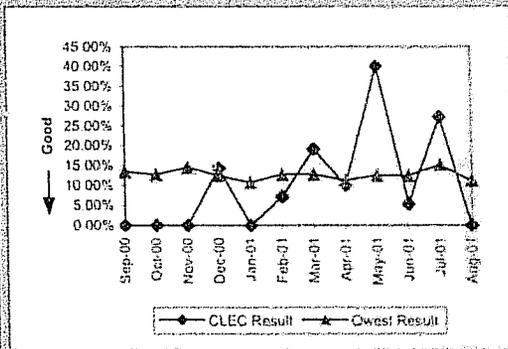
% of Trunks Cleared within 48 hours (Percent) (MR-4) - Interval Zone Two								
Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Mod Z Scr	Parity Score
09/01/00	6	6	100.00%	1718	1801	95.39%	-0.54	-1.33
09/01/00	6	5	100.00%	1533	1573	97.46%	-0.36	-1.22
09/01/00	6	6	100.00%	1596	1684	94.42%	-0.59	-1.36
09/01/00	6	7	100.00%	1264	1292	97.83%	-0.39	-1.24
09/01/00	6	2	100.00%	1086	1118	97.14%	-0.24	-1.15
09/01/00	6	14	100.00%	854	888	96.17%	-0.74	-1.45
09/01/00	6	24	100.00%	1269	1296	97.22%	-0.77	-1.47
09/01/00	6	13	100.00%	1490	1539	96.82%	-0.57	-1.35
09/01/00	6	5	80.00%	1394	1440	96.81%	7.94	3.83
09/01/00	6	19	100.00%	1467	1526	96.13%	-0.87	-1.53
09/01/00	6	11	100.00%	1477	1549	95.35%	-0.73	-1.44
09/01/00	6	4	100.00%	1418	1446	98.06%	-0.28	-1.17



Mean Time to Restore (Hours:Minutes) (MR-6) - Interval Zone Two								
Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Mod Z Scr	Parity Score
09/01/00	6	6	8:00	23519:05	1801	13:04	-0.62	-1.38
09/01/00	6	5	5:41	16601:26	1573	10:33	-0.81	-1.5
09/01/00	6	6	8:01	24132:06	1684	14:20	-0.8	-1.49
09/01/00	6	7	4:27	13366:34	1292	10:21	-1.14	-1.69
09/01/00	6	2	23:40	14057:16	1118	12:34	1.42	-0.14
09/01/00	6	14	4:28	12262:01	888	13:49	-1.66	-2.01
09/01/00	6	24	6:09	14916:11	1296	11:31	-1.96	-2.19
09/01/00	6	13	5:24	20629:14	1539	13:24	-1.68	-2.02
09/01/00	6	5	20:18	19761:51	1440	13:43	1.01	-0.39
09/01/00	6	19	8:15	21865:00	1526	14:20	-1.64	-2
09/01/00	6	11	8:08	22089:59	1549	14:16	-1.27	-1.77
09/01/00	6	4	6:54	16357:17	1446	11:44	-0.65	-1.4



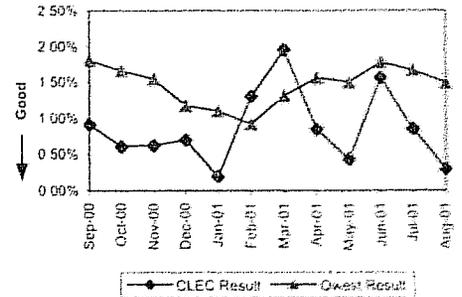
Repair Repeat Report Rate (Percent) (MR-7) - Interval Zone Two								
Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Mod Z Scr	Parity Score
09/01/00	6	6	0.00%	241	1801	13.38%	-0.96	-1.58
09/01/00	6	5	0.00%	201	1598	12.58%	-0.85	-1.51
09/01/00	6	6	0.00%	248	1711	14.49%	-1.01	-1.61
09/01/00	6	7	14.29%	163	1316	12.39%	0.22	-0.87
09/01/00	6	2	0.00%	121	1131	10.70%	-0.49	-1.3
09/01/00	6	14	7.14%	114	898	12.69%	-0.62	-1.38
09/01/00	6	21	19.05%	166	1312	12.65%	0.86	-0.48
09/01/00	6	10	10.00%	175	1561	11.21%	-0.12	-1.07
09/01/00	6	5	40.00%	182	1461	12.46%	1.5	-0.09
09/01/00	6	10	5.26%	191	1557	12.27%	-0.92	-1.56
09/01/00	6	3	27.27%	238	1575	15.11%	1.05	-0.36
09/01/00	6	4	0.00%	163	1464	11.13%	-0.71	-1.43



Checklist #4 - Unbundled Loop - Analog Repair

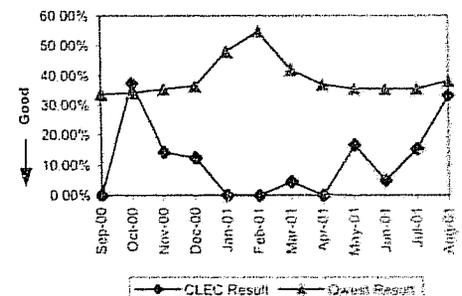
Top One Year (Percent) (MR-9) -- Interval Zone One and Two

Year	Qwest Num	Qwest Donor	Qwest Result	Mod Z Scr	Parity Score
2000	4145	229346	1.81%	-1.72	-2.04
2001	3781	227599	1.65%	-2.37	-2.44
2002	3433	226121	1.54%	-2.33	-2.41
2003	2629	224460	1.17%	-1.4	-1.85
2004	2454	223071	1.10%	-2.76	-2.68
2005	2070	221311	0.92%	1.32	-0.19
2006	2876	219161	1.31%	1.86	0.13
2007	3400	217622	1.56%	-1.99	-2.21
2008	3226	215311	1.50%	-3.01	-2.83
2009	3787	213145	1.78%	-0.57	-1.35
2010	3521	210770	1.67%	-2.3	-2.4
2011	3116	208008	1.49%	-3.58	-3.18



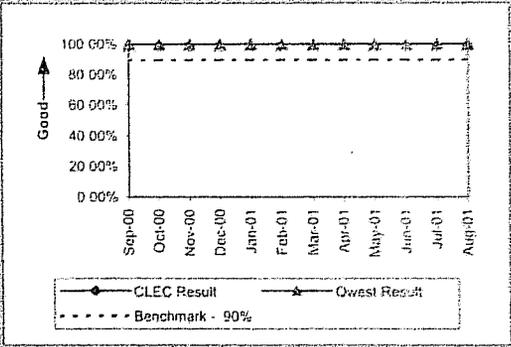
Top One Year (Percent) (MR-10) -- Interval Zone One and Two

Year	Qwest Num	Qwest Donor	Qwest Result	Mod Z Scr	Parity Score
2000	2110	6256	33.73%	-1.75	-2.06
2001	1959	5740	34.13%	0.21	-0.87
2002	1921	5414	35.48%	-1.17	-1.71
2003	1514	4143	36.54%	-1.41	-1.86
2004	2273	4727	48.09%	-1.36	-1.83
2005	2462	4492	54.81%	-4.11	-3.5
2006	2006	4956	42.09%	-3.56	-3.16
2007	1998	5398	37.01%	-2.42	-2.47
2008	1780	5006	35.56%	-0.97	-1.59
2009	2098	5885	35.65%	-2.86	-2.74
2010	1950	5471	35.64%	-1.52	-1.93
2011	1937	5055	38.32%	-0.25	-1.15

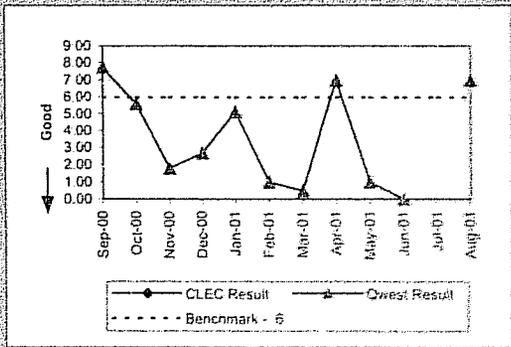


Checklist #4 - Unbundled Loop - Non-Loaded (2-Wire) Installation

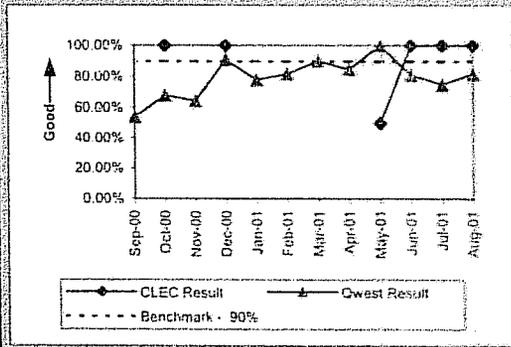
Installation Interval (Average Days) (OP-3) - Interval Zone One								
Line	CLEC Name	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
1000000000				4	4	100.00%		
1000000000				9	9	100.00%		
1000000000				9	9	100.00%		
1000000000				13	13	100.00%		
1000000000				8	8	100.00%		
1000000000				3	3	100.00%		
1000000000				4	4	100.00%		
1000000000				4	4	100.00%		
1000000000				2	2	100.00%		
1000000000				4	4	100.00%		
1000000000				1	1	100.00%		
1000000000				2	2	100.00%		



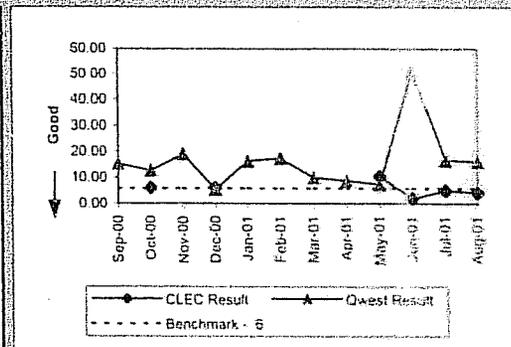
Installation Interval (Average Days) (OP-4) - Interval Zone One								
Line	CLEC Name	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
1000000000				31	4	7.75		
1000000000				20	5	5.60		
1000000000				16	9	1.78		
1000000000				35	13	2.69		
1000000000				41	8	5.12		
1000000000				3	3	1.00		
1000000000				2	4	0.50		
1000000000				28	4	7.00		
1000000000				2	2	1.00		
1000000000				0	2	0.00		
1000000000				14	2	7.00		



Installation Interval (Average Days) (OP-3) - Interval Zone Two								
Line	CLEC Name	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
1000000000				7	13	53.85%		
1000000000			100.00%	17	25	68.00%	-0.93	-1.57
1000000000				9	14	64.29%		
1000000000			100.00%	10	11	90.91%	-0.3	-1.18
1000000000				14	18	77.78%		
1000000000				9	11	81.82%		
1000000000				18	20	90.00%		
1000000000				11	13	84.62%		
1000000000			50.00%	10	10	100.00%	N/A	0.97
1000000000			100.00%	17	21	80.95%	-0.47	-1.29
1000000000			100.00%	6	8	75.00%	-0.85	-1.52
1000000000			100.00%	18	22	81.82%	-1.14	-1.69



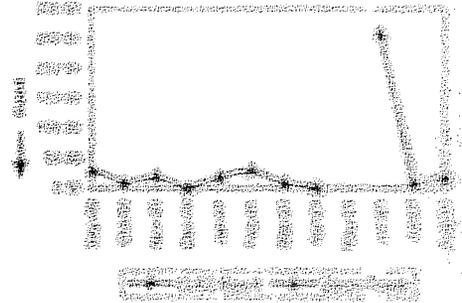
Installation Interval (Average Days) (OP-4) - Interval Zone Two								
Line	CLEC Name	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Mod Z Scr	Parity Score
1000000000				170	11	15.45		
1000000000			6.00	279	22	12.68	-0.66	-1.4
1000000000				268	14	19.14		
1000000000			8.00	60	11	5.45	0.09	-0.95
1000000000				261	16	16.31		
1000000000				176	10	17.60		
1000000000				160	16	10.00		
1000000000				116	13	8.92		
1000000000			10.50	66	9	7.33	0.76	-0.54
1000000000			2.00	956	19	50.84	-0.26	-1.16
1000000000			5.00	167	10	16.70	-0.96	-1.6
1000000000			4.20	391	24	16.29	-1.57	-1.95



Checklist #4 - Unbundled Loop - Non-Facility Reasons

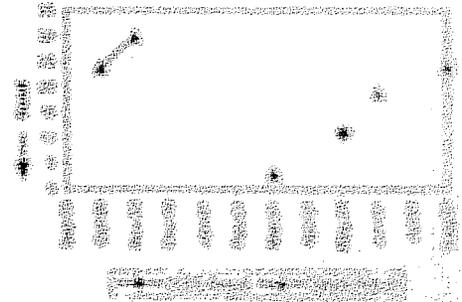
Delayed Days for Non-Facility Reasons (Average Days) (CPA) - Internal Time Yr

Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Month 2 Num	Month 2 Denor
Sep-00				191	8	97.9%		
Oct-00				65	7	97.3%		
Nov-00				69	3	99.7%		
Dec-00				1	1	100%		
Jan-01				68	4	99.4%		
Feb-01				61	2	99.7%		
Mar-01				10	1	99.9%		
Apr-01				5	2	97.5%		
May-01								
Jun-01				281	5	99.8%		
Jul-01				42	4	99.5%		
Aug-01				52	3	99.4%		



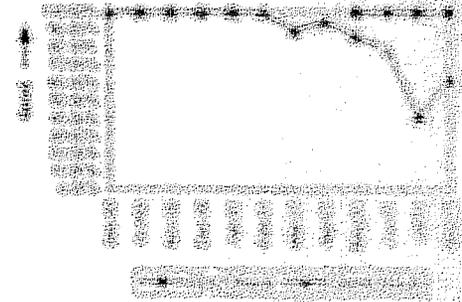
Delayed Days for Facility Reasons (Average Days) (CPA) - Internal Time Yr

Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Month 2 Num	Month 2 Denor
Sep-00								
Oct-00				24	1	99.6%		
Nov-00				84	2	99.8%		
Dec-00								
Jan-01								
Feb-01								
Mar-01								
Apr-01								
May-01	11	1	11.0%					
Jun-01				19	1	98.9%		
Jul-01								
Aug-01				99	2	99.8%		



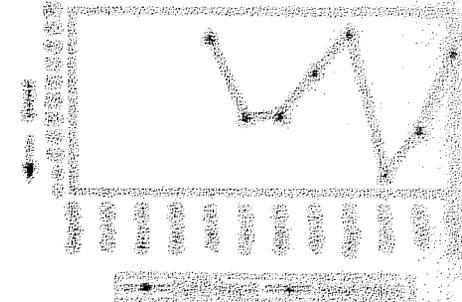
New Service Installation Quality (Percent) (CPA) - Internal Time Yr

Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Month 2 Num	Month 2 Denor
Sep-00				22	21	95.45%		
Oct-00	1	1	100.00%	21	21	100.00%	21	21
Nov-00	1	1	100.00%	23	23	100.00%	23	23
Dec-00	1	1	100.00%	24	24	100.00%	24	24
Jan-01	1	1	100.00%	26	26	100.00%	26	26
Feb-01				21	21	100.00%		
Mar-01				11	11	100.00%		
Apr-01				20	20	100.00%		
May-01	1	1	100.00%	14	14	100.00%	14	14
Jun-01	2	2	100.00%	13	13	100.00%	13	13
Jul-01	2	2	100.00%	3	3	100.00%	3	3
Aug-01	6	6	100.00%	12	12	100.00%	12	12



Interval for Pending Orders Delayed Past Due Date (Average Days) (CPA)

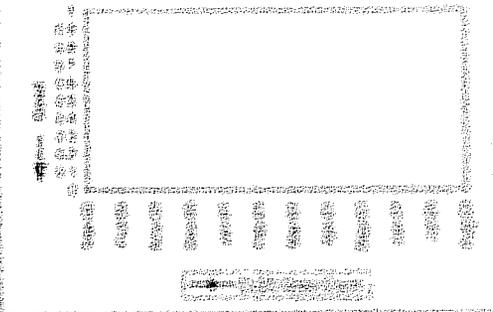
Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Month 2 Num	Month 2 Denor
Sep-00								
Oct-00								
Nov-00								
Dec-00								
Jan-01				25	2	92.0%		
Feb-01				21	1	95.2%		
Mar-01				49	2	95.9%		
Apr-01				47	2	95.7%		
May-01				66	2	97.0%		
Jun-01				23	2	91.3%		
Jul-01				29	2	93.1%		
Aug-01				111	2	98.2%		



Checklist #4 - Unbundled Loop - Non-attached (2.45) - 03/15/01

Count of Pending Orders Delayed for Facilities Reasons Unbundled Loop - 1/1/00 to 12/31/01

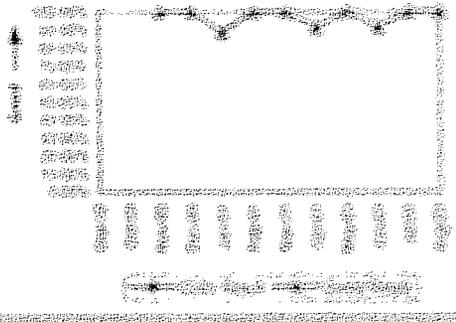
Date	CLEC Order Count
Sep-00	
Oct-00	
Nov-00	
Dec-00	
Jan-01	
Feb-01	
Mar-01	
Apr-01	
May-01	
Jun-01	
Jul-01	
Aug-01	



Checklist #4 - Unbundled Line - South Dakota - 12 Month Period

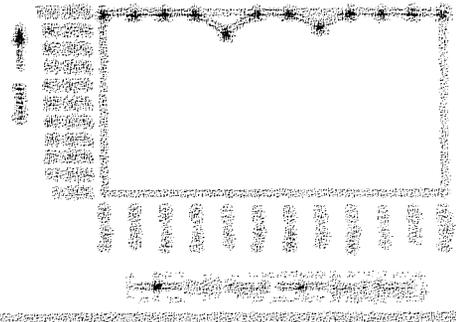
Out of Service Cleared within 24 hours (Percent) (Metric 1) - Unbundled Line Data

Date	CLEC Num	CLEC Denom	CLEC Result	Queue Num	Queue Denom	Queue Result	Queue % Req	Queue Status
Sep-00								
Oct-00								
Nov-00				1	1	100.00%		
Dec-00				1	1	100.00%		
Jan-01				6	6	100.00%		
Feb-01				0	0	100.00%		
Mar-01				14	14	100.00%		
Apr-01				11	11	91.82%		
May-01				10	10	100.00%		
Jun-01				11	11	91.82%		
Jul-01				18	18	100.00%		
Aug-01				15	15	100.00%		



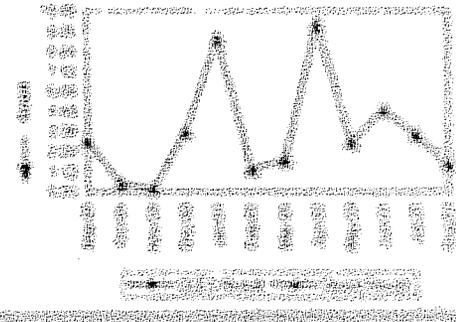
All Troubles Cleared within 48 hours (Percent) (Metric 2) - Unbundled Line Data

Date	CLEC Num	CLEC Denom	CLEC Result	Queue Num	Queue Denom	Queue Result	Queue % Req	Queue Status
Sep-00				1	1	100.00%		
Oct-00				1	1	100.00%		
Nov-00				1	1	100.00%		
Dec-00				1	1	100.00%		
Jan-01				6	6	83.33%		
Feb-01				0	0	100.00%		
Mar-01				14	14	100.00%		
Apr-01				10	10	80.00%		
May-01				10	10	100.00%		
Jun-01				11	11	100.00%		
Jul-01				18	18	100.00%		
Aug-01				15	15	100.00%		



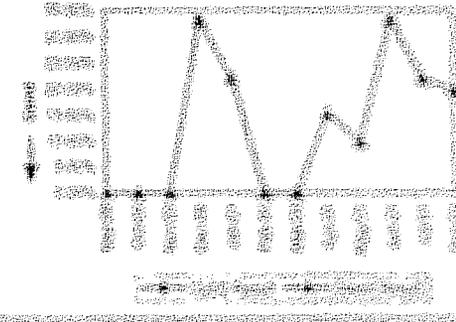
Mean Time to Restore (Hours:Minutes) (Metric 3) - Unbundled Line Data

Date	CLEC Num	CLEC Denom	CLEC Result	Queue Num	Queue Denom	Queue Result	Queue % Req	Queue Status
Sep-00				3:04	1	3:04		
Oct-00				0:34	1	0:34		
Nov-00				0:14	1	0:14		
Dec-00				10:43	1	10:43		
Jan-01				62:46	6	62:46		
Feb-01				0:04	0	0:04		
Mar-01				27:08	14	27:08		
Apr-01				130:04	10	130:04		
May-01				29:33	10	29:33		
Jun-01				58:24	11	58:24		
Jul-01				6:20	18	6:20		
Aug-01				24:02	15	24:02		



Repair Repeat Report Rate (Percent) (Metric 4) - Unbundled Line Data

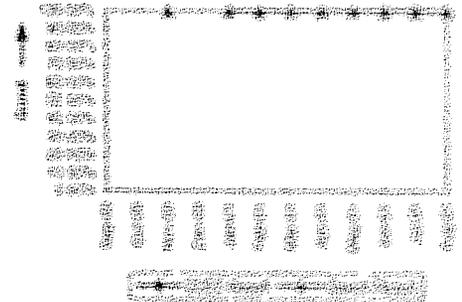
Date	CLEC Num	CLEC Denom	CLEC Result	Queue Num	Queue Denom	Queue Result	Queue % Req	Queue Status
Sep-00				0	1	0.00%		
Oct-00				0	1	0.00%		
Nov-00				2	1	0.00%		
Dec-00				1	1	33.33%		
Jan-01				1	2	50.00%		
Feb-01				2	5	40.00%		
Mar-01				0	14	0.00%		
Apr-01				1	10	10.00%		
May-01				1	10	10.00%		
Jun-01				4	11	36.36%		
Jul-01				4	18	22.22%		
Aug-01				0	15	0.00%		



Checklist #4 - Unavailable Loop - Repair Report Rate (Percent)

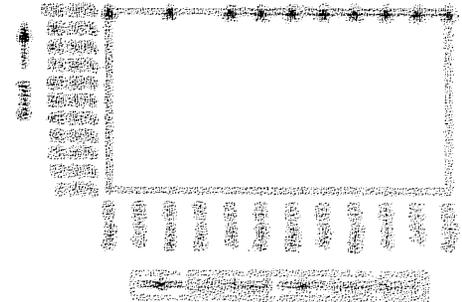
Out of Service Cleared within 24 hours (Percent) (MR-3.1) - Interval Data - Loop

Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Next 2 Yrs	Target Score
Sep-00								
Oct-00								
Nov-00				1	1	100.00%		
Dec-00								
Jan-01				4	4	100.00%		
Feb-01				2	2	100.00%		
Mar-01				4	4	100.00%		
Apr-01				5	5	100.00%		
May-01				7	7	100.00%		
Jun-01				5	5	100.00%		
Jul-01				4	4	100.00%		
Aug-01				4	4	100.00%		



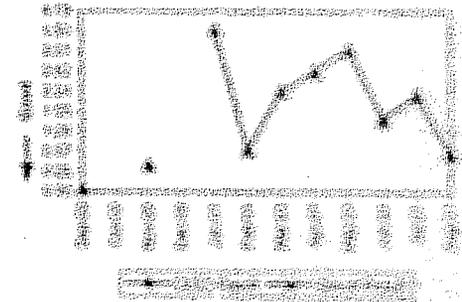
All Troubles Cleared within 48 hours (Percent) (MR-4.1) - Interval Data - Loop

Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Next 2 Yrs	Target Score
Sep-00								
Oct-00				1	1	100.00%		
Nov-00				1	1	100.00%		
Dec-00								
Jan-01				4	4	100.00%		
Feb-01				2	2	100.00%		
Mar-01				4	4	100.00%		
Apr-01				5	5	100.00%		
May-01				7	7	100.00%		
Jun-01				5	5	100.00%		
Jul-01				4	4	100.00%		
Aug-01				4	4	100.00%		



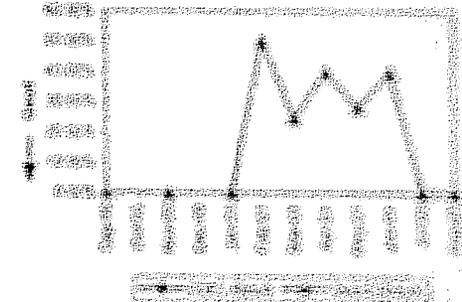
Mean Time to Restore (Hours:Minutes) (MR-5.1) - Interval Data - Loop

Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Next 2 Yrs	Target Score
Sep-00				0:04	3	0:04		
Oct-00								
Nov-00				0:35	5	0:35		
Dec-00								
Jan-01				15:03	4	3:50		
Feb-01				2:04	2	1:00		
Mar-01				9:40	4	2:00		
Apr-01				14:27	3	2:00		
May-01				23:54	3	3:30		
Jun-01				6:50	5	0:40		
Jul-01				9:22	4	2:00		
Aug-01				3:44	4	0:40		



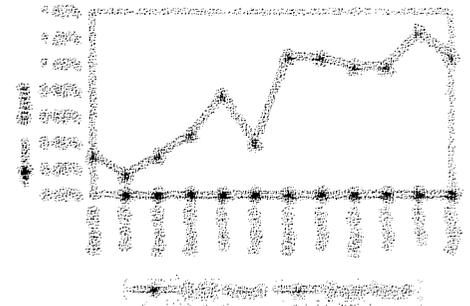
Repair Repeat Report Rate (Percent) (MR-7.1) - Interval Data - Loop

Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Result	Next 2 Yrs	Target Score
Sep-00				0	1	0.00%		
Oct-00								
Nov-00				2	4	50.00%		
Dec-00								
Jan-01				6	4	150.00%		
Feb-01				1	2	50.00%		
Mar-01				1	4	25.00%		
Apr-01				2	5	40.00%		
May-01				2	3	66.67%		
Jun-01				2	5	40.00%		
Jul-01				2	4	50.00%		
Aug-01				0	4	0.00%		

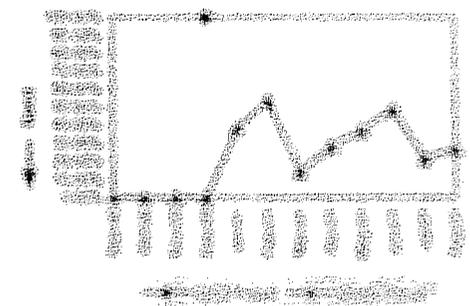


Checklist #4 - Unlawful Loss - Unlawful Loss - Unlawful Loss

Tribal's Rate (Percent, MRE, etc.) - Monthly Data (Oct and Feb)								
Date	CLEC Num	CLEC Denot	CLEC Result	Denot Num	Denot Cases	Denot Date	Denot Fee	Denot Cost
Sep-00					100	0.00%		
Oct-00	0	2	0.00%		100	0.00%	0.00	1.00
Nov-00	0	2	0.00%		100	0.00%	0.00	1.00
Dec-00	0	3	0.00%		100	0.00%	0.00	1.00
Jan-01	0	1	0.00%	10	100	0.00%	0.00	1.00
Feb-01	0	1	0.00%	7	100	0.00%	0.00	1.00
Mar-01	0	3	0.00%	10	100	0.00%	0.00	1.00
Apr-01	0	2	0.00%	10	100	0.00%	0.00	1.00
May-01	0	4	0.00%	10	100	0.00%	0.00	1.00
Jun-01	0	5	0.00%	10	100	0.00%	0.00	1.00
Jul-01	0	8	0.00%	20	100	0.00%	0.00	1.00
Aug-01	0	20	0.00%	30	100	0.00%	0.00	1.00



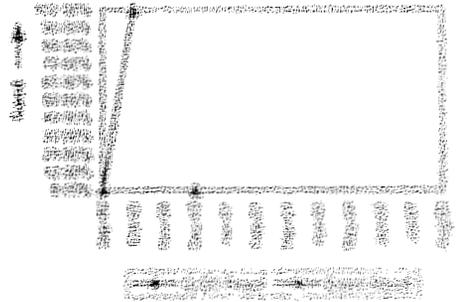
Customer and Non-Qwest Related Tribes - Monthly Data (Oct and Feb)								
Date	CLEC Num	CLEC Denot	CLEC Result	Denot Num	Denot Cases	Denot Date	Denot Fee	Denot Cost
Sep-00						0.00%		
Oct-00						0.00%		
Nov-00						0.00%		
Dec-00	1	1	100.00%			0.00%		
Jan-01						0.00%		
Feb-01						0.00%		
Mar-01						0.00%		
Apr-01						0.00%		
May-01						0.00%		
Jun-01						0.00%		
Jul-01						0.00%		
Aug-01						0.00%		



Checklist #4 - Unbundled Loop - Network

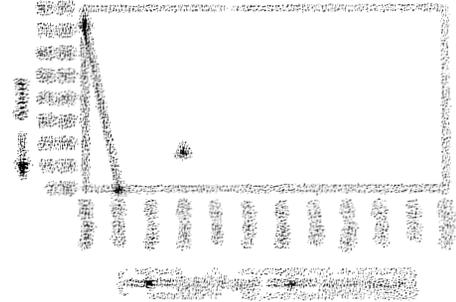
Installation Commitments Met (Percent) (OP-3 - Interval Time Code)

Date	CLEC Num	CLEC Desc	CLEC Resu	Std Dev	Qwest Num	Qwest Desc	Qwest Resu	Met %	Plan %
Sep-00					0	1	0.0%		
Oct-00					5	1	100.0%		
Nov-00									
Dec-00					5	1	5.0%		
Jan-01									
Feb-01									
Mar-01									
Apr-01									
May-01									
Jun-01									
Jul-01									
Aug-01									



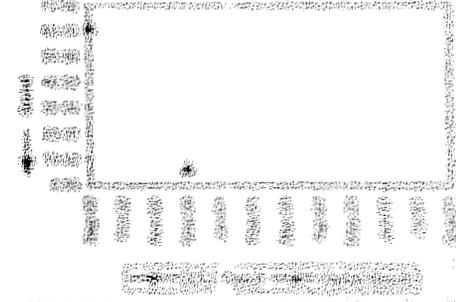
Installation Interval (Average Days) (OP-4 - Interval Time Code)

Date	CLEC Num	CLEC Desc	CLEC Resu	Std Dev	Qwest Num	Qwest Desc	Qwest Resu	Met %	Plan %
Sep-00					74	1	74.0%		
Oct-00					2	1	0.0%		
Nov-00									
Dec-00					67	1	67.0%		
Jan-01									
Feb-01									
Mar-01									
Apr-01									
May-01									
Jun-01									
Jul-01									
Aug-01									



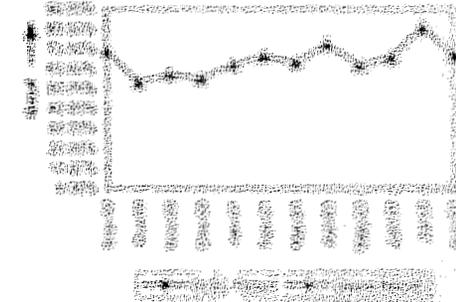
Delayed Days for Non-Facility Reasons (Average Days) (OP-5 - Interval Time Code)

Date	CLEC Num	CLEC Desc	CLEC Resu	Std Dev	Qwest Num	Qwest Desc	Qwest Resu	Met %	Plan %
Sep-00					60	1	60.0%		
Oct-00									
Nov-00									
Dec-00					7	1	7.0%		
Jan-01									
Feb-01									
Mar-01									
Apr-01									
May-01									
Jun-01									
Jul-01									
Aug-01									



Installation Commitments Met (Percent) (OP-3 - Interval Time Code)

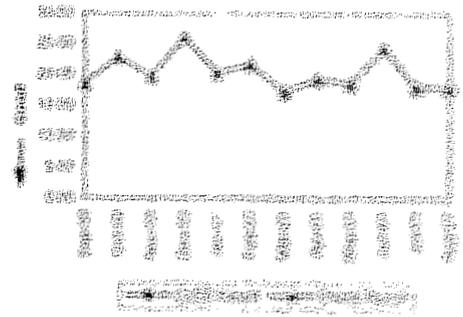
Date	CLEC Num	CLEC Desc	CLEC Resu	Std Dev	Qwest Num	Qwest Desc	Qwest Resu	Met %	Plan %
Sep-00					50	74	66.87%		
Oct-00					49	66	63.41%		
Nov-00					55	65	67.36%		
Dec-00					52	66	65.15%		
Jan-01					41	66	62.12%		
Feb-01					61	66	66.67%		
Mar-01					63	67	67.16%		
Apr-01					64	66	72.73%		
May-01					56	76	66.66%		
Jun-01					49	74	66.22%		
Jul-01					64	76	64.47%		
Aug-01					55	74	67.57%		



Checklist #4 - Unbundled Loop - Service Quality - Average Days to Install

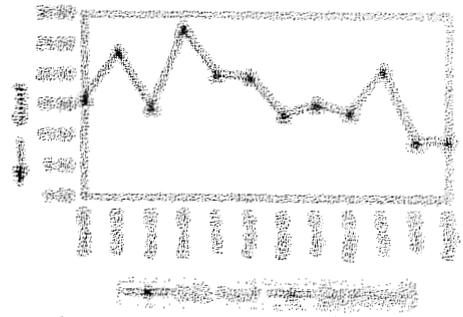
Installation Interval (Average Days) (OP-4) - Interval From Date to Date

Date	CLEC Num	CLEC Dend	CLEC Rest	Std Dev	Qwest Num	Qwest Den	Qwest Res	Interval From	Interval To
Sep-00					1372	70	16.5%		
Oct-00					2014	83	22.4%		
Nov-00					1771	69	19.9%		
Dec-00					2433	99	26.4%		
Jan-01					1341	68	20.3%		
Feb-01					1450	62	22.4%		
Mar-01					2227	106	27.5%		
Apr-01					1641	63	19.3%		
May-01					1379	74	18.5%		
Jun-01					1775	73	20.5%		
Jul-01					2321	101	27.5%		
Aug-01					2444	111	28.5%		



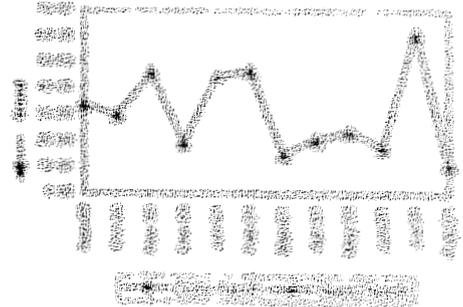
Delayed Days for Non-Facility Reasons (Average Days) (OP-5) - Interval From Date to Date

Date	CLEC Num	CLEC Dend	CLEC Rest	Std Dev	Qwest Num	Qwest Den	Qwest Res	Interval From	Interval To
Sep-00					297	11	16.5%		
Oct-00					741	31	23.9%		
Nov-00					630	21	16.5%		
Dec-00					912	33	23.9%		
Jan-01					445	20	20.3%		
Feb-01					527	11	13.5%		
Mar-01					236	10	13.5%		
Apr-01					770	27	16.5%		
May-01					240	12	16.5%		
Jun-01					469	20	20.5%		
Jul-01					525	24	23.5%		
Aug-01					622	32	24.5%		



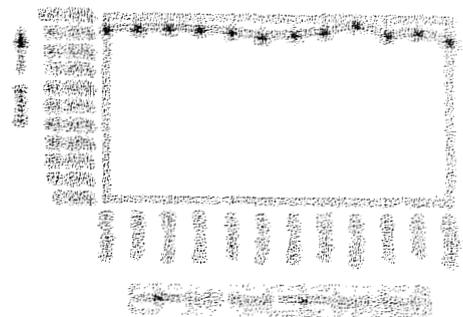
Delayed Days for Facility Reasons (Average Days) (OP-6) - Interval From Date to Date

Date	CLEC Num	CLEC Dend	CLEC Rest	Std Dev	Qwest Num	Qwest Den	Qwest Res	Interval From	Interval To
Sep-00					170	8	16.5%		
Oct-00					306	15	23.9%		
Nov-00					415	16	16.5%		
Dec-00					173	8	16.5%		
Jan-01					334	15	16.5%		
Feb-01					234	6	13.5%		
Mar-01					132	7	13.5%		
Apr-01					64	4	16.5%		
May-01					292	13	23.9%		
Jun-01					52	3	16.5%		
Jul-01					161	3	13.5%		
Aug-01					171	10	23.9%		



New Service Installation Quality (Percent) (OP-7) - Interval From Date to Date

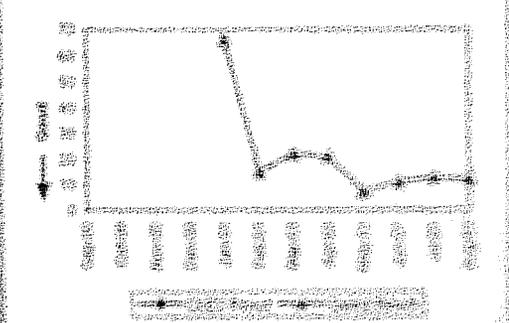
Date	CLEC Num	CLEC Dend	CLEC Rest	Std Dev	Qwest Num	Qwest Den	Qwest Res	Interval From	Interval To
Sep-00					117	201	93.5%		
Oct-00					92	98	93.5%		
Nov-00					150	106	93.5%		
Dec-00					104	113	93.5%		
Jan-01					98	102	93.5%		
Feb-01					71	83	93.5%		
Mar-01					100	109	93.5%		
Apr-01					134	133	93.5%		
May-01					99	101	93.5%		
Jun-01					86	87	93.5%		
Jul-01					127	133	93.5%		
Aug-01					122	133	93.5%		



Checklist #4 - Unbundled Loop - Non-Loaded (4/25/01 - 1/31/02)

Interval for Pending Orders Delayed Past Due Date (Average Days) (OP-15A)

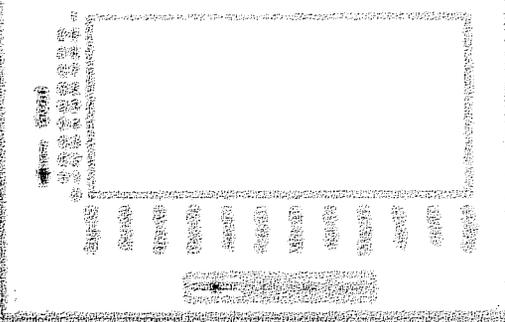
Date	CLEC Num	CLEC Dend	CLEC Rest	Std Dev	Qwest Num	Qwest Den	Qwest Rest	Max Z-Score	Past Due
Sep-00									
Oct-00									
Nov-00									
Dec-00									
Jan-01					265	4	65.25		
Feb-01					472	31	15.23		
Mar-01					288	13	25.15		
Apr-01					106	5	24.25		
May-01					80	11	7.23		
Jun-01					156	14	14.14		
Jul-01					285	22	12.55		
Aug-01					342	22	12.23		



Checklist #4 - Unbundled Loop - 1999-01-01 to 2001-08-31

Count of Pending Orders Delayed for Facilities Reasons Unbundled Loop - 4 Wire Numbers (Sep-00 to Aug-01)

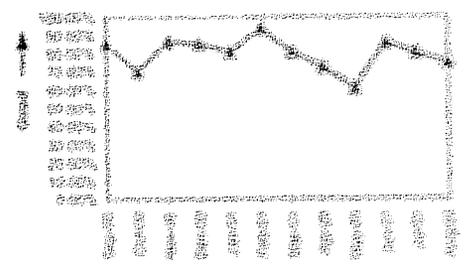
Date	CLEC Order Count
Sep-00	
Oct-00	
Nov-00	
Dec-00	
Jan-01	
Feb-01	
Mar-01	
Apr-01	
May-01	
Jun-01	
Jul-01	
Aug-01	



Checklist #4 - Unbundled Loop - Non-Loaded (4-Week History)

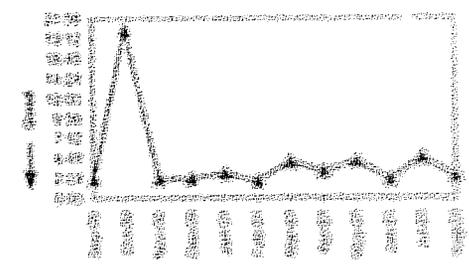
All Troubles Cleared within 4 hours (Percent) (MR-5) - Interval Zone Two

Date	CLEC Num	CLEC Dend	CLEC Resu	Std Dev	Owest Num	Owest Den	Owest Res	Mod 2 Str	Party Str
Sep-00					59	68	85.51%		
Oct-00					42	60	70.00%		
Nov-00					39	45	86.67%		
Dec-00					41	48	85.42%		
Jan-01					42	52	80.77%		
Feb-01					163	174	93.68%		
Mar-01					56	62	90.48%		
Apr-01					42	58	72.41%		
May-01					48	70	69.76%		
Jun-01					85	99	85.86%		
Jul-01					61	75	80.26%		
Aug-01					114	152	75.00%		



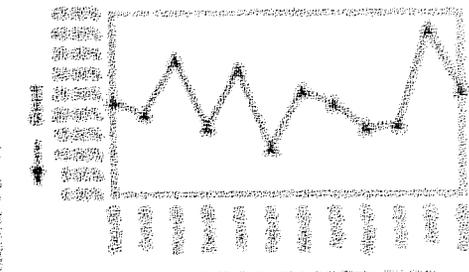
Mean Time to Restore (Hours Minutes) (MR-6) - Interval Zone Two

Date	CLEC Num	CLEC Dend	CLEC Resu	Std Dev	Owest Num	Owest Den	Owest Res	Mod 2 Str	Party Str
Sep-00					154:24	69	2:14		
Oct-00					1213:34	60	20:14		
Nov-00					102:38	45	2:12		
Dec-00					111:22	48	2:05		
Jan-01					151:06	52	2:54		
Feb-01					351:20	174	2:01		
Mar-01					352:36	62	4:16		
Apr-01					195:50	58	3:10		
May-01					347:28	78	4:24		
Jun-01					218:43	99	2:15		
Jul-01					364:21	76	4:18		
Aug-01					369:54	152	2:21		



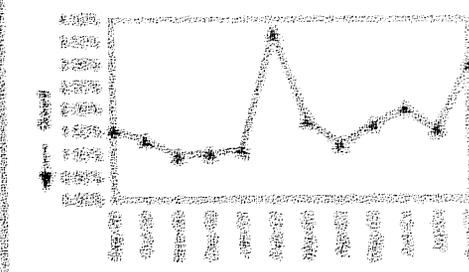
Repair Repeat Report Rate (Percent) (MR-7) - Interval Zone Two

Date	CLEC Num	CLEC Dend	CLEC Resu	Std Dev	Owest Num	Owest Den	Owest Res	Mod 2 Str	Party Str
Sep-00					10	68	83.33%		
Oct-00					12	60	20.00%		
Nov-00					18	45	53.33%		
Dec-00					8	48	16.67%		
Jan-01					16	52	30.77%		
Feb-01					20	174	11.49%		
Mar-01					21	62	33.87%		
Apr-01					13	58	22.41%		
May-01					13	78	16.66%		
Jun-01					17	98	17.35%		
Jul-01					31	76	40.79%		
Aug-01					39	152	25.66%		



Trouble Rate (Percent) (MR-8) - Interval Zone One and Two

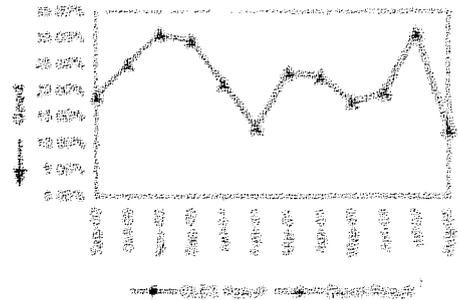
Date	CLEC Num	CLEC Dend	CLEC Resu	Std Dev	Owest Num	Owest Den	Owest Res	Mod 2 Str	Party Str
Sep-00					69	4490	1.54%		
Oct-00					60	4556	1.32%		
Nov-00					45	4654	0.97%		
Dec-00					48	4724	1.02%		
Jan-01					52	4718	1.10%		
Feb-01					174	4721	0.99%		
Mar-01					62	4721	1.31%		
Apr-01					58	4636	1.25%		
May-01					78	4646	1.68%		
Jun-01					99	4646	1.99%		
Jul-01					76	4652	1.63%		
Aug-01					152	5084	2.99%		



Checklist #4 - Unbundled Loop - Non-Loaded (4 Wire) Report

Customer and Non-Qwest Related Trouble Reports (Percent) (MR-10) - Interval Zone One and Two

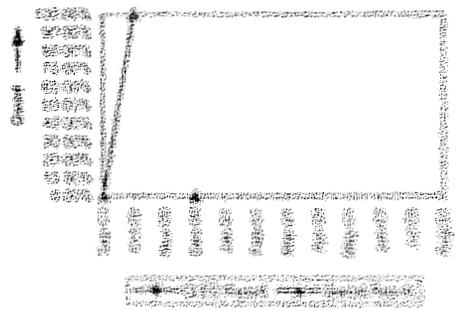
Date	CLEC Num	CLEC Dend	CLEC Resu	Std Dev	Qwest Num	Qwest Den	Qwest Rat	Mod 7 Str	Party Str
Sep-00					16	85	18.82%		
Oct-00					20	80	25.00%		
Nov-00					20	65	30.77%		
Dec-00					20	68	29.41%		
Jan-01					14	66	21.21%		
Feb-01					26	200	13.00%		
Mar-01					25	107	23.36%		
Apr-01					17	75	22.67%		
May-01					17	95	17.79%		
Jun-01					24	123	19.51%		
Jul-01					34	110	30.91%		
Aug-01					22	174	12.64%		



Checklist #4 - Unbundled Loop - DS1 Capacity Installation

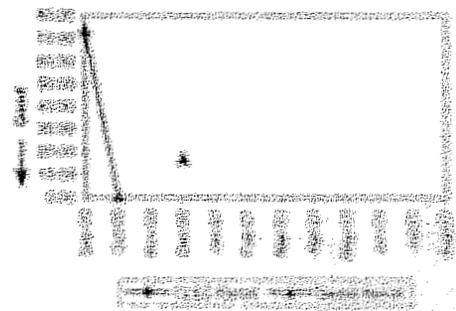
Installation Commitments Met (Percent) (OP-3) - Interval Zone One

Date	CLEC Num	CLEC Desc	CLEC Resu	Std Dev	Qwest Num	Qwest Desc	Qwest Resu	Mod Z-Score	Points Score
Sep-00					0	1	0.00%		
Oct-00					3	3	100.00%		
Nov-00									
Dec-00					0	1	0.00%		
Jan-01									
Feb-01									
Mar-01									
Apr-01									
May-01									
Jun-01									
Jul-01									
Aug-01									



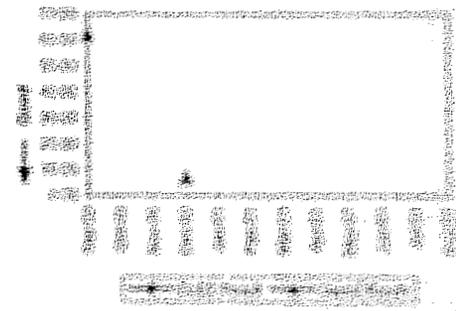
Installation Interval (Average Days) (OP-4) - Interval Zone One

Date	CLEC Num	CLEC Desc	CLEC Resu	Std Dev	Qwest Num	Qwest Desc	Qwest Resu	Mod Z-Score	Points Score
Sep-00					74	1	14.00		
Oct-00					2	2	0.67		
Nov-00									
Dec-00					17	1	17.00		
Jan-01									
Feb-01									
Mar-01									
Apr-01									
May-01									
Jun-01									
Jul-01									
Aug-01									



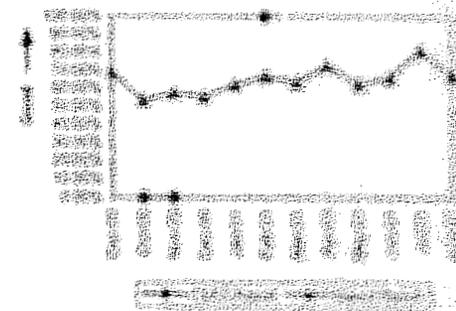
Delayed Days for Non-Facility Reasons (Average Days) (OP-6A) - Interval Zone One

Date	CLEC Num	CLEC Desc	CLEC Resu	Std Dev	Qwest Num	Qwest Desc	Qwest Resu	Mod Z-Score	Points Score
Sep-00					62	1	62.00		
Oct-00									
Nov-00									
Dec-00					7	1	7.00		
Jan-01									
Feb-01									
Mar-01									
Apr-01									
May-01									
Jun-01									
Jul-01									
Aug-01									



Installation Commitments Met (Percent) (OP-3) - Interval Zone Two

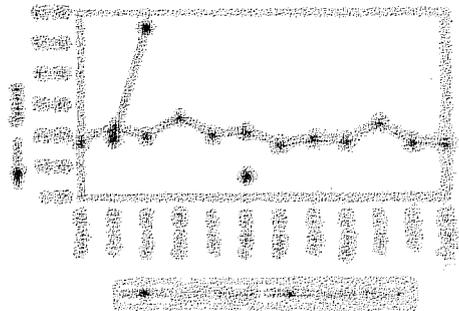
Date	CLEC Num	CLEC Desc	CLEC Resu	Std Dev	Qwest Num	Qwest Desc	Qwest Resu	Mod Z-Score	Points Score
Sep-00					51	74	68.82%		
Oct-00	0	1	0.00%	0.00%	47	83	53.49%	1.41	-0.05
Nov-00	0	1	0.00%	0.00%	51	55	57.30%	2.49	0.04
Dec-00					52	84	55.30%		
Jan-01					41	86	52.12%		
Feb-01	1	1	100.00%	0.00%	45	69	66.67%	-0.71	-4.43
Mar-01					83	131	63.36%		
Apr-01					64	84	72.73%		
May-01					46	74	62.16%		
Jun-01					49	74	66.22%		
Jul-01					54	79	61.01%		
Aug-01					75	104	67.51%		



Checkpoint #4 - Unavailability - FST (Unavailability)

Installation Interval (Average Days) (SEP 00 - AUG 01)

Date	CLEC Num	CLEC Desc	CLEC Rev	Std Dev	Overall Avg	Overall Std	Overall Min	Overall Max	Overall Avg	Overall Std
Sep-00					1852	74	1828	1876		
Oct-00	19	1	19 00		1794	68	1760	1828	1794	68
Nov-00	55	1	55 00		1771	65	1736	1806	1771	65
Dec-00					2458	94	2424	2492		
Jan-01					1583	64	1548	1618		
Feb-01	7	1	7 00		1458	65	1423	1493	1458	65
Mar-01					2103	78	2068	2138		
Apr-01					1681	68	1646	1716		
May-01					1694	74	1659	1729		
Jun-01					1775	74	1740	1810		
Jul-01					2204	83	2169	2239		
Aug-01					1544	64	1509	1579		



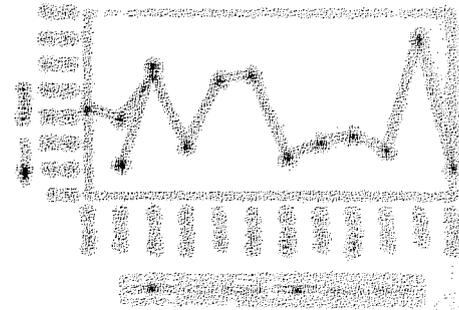
Delayed Days by Non-Facility Reasons (Average Days) (SEP 00 - AUG 01)

Date	CLEC Num	CLEC Desc	CLEC Rev	Std Dev	Overall Avg	Overall Std	Overall Min	Overall Max	Overall Avg	Overall Std
Sep-00					594	33	560	628		
Oct-00					541	32	507	575		
Nov-00					610	35	576	644		
Dec-00					965	52	931	999		
Jan-01					488	27	454	522		
Feb-01					557	31	523	591		
Mar-01					594	34	560	628		
Apr-01					575	31	541	609		
May-01					541	29	507	575		
Jun-01					610	35	576	644		
Jul-01	1	1	1 00		555	30	521	589	555	30
Aug-01					574	31	540	608		



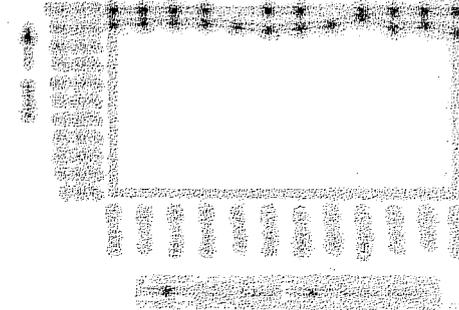
Delayed Days by Facility Reasons (Average Days) (SEP 00 - AUG 01)

Date	CLEC Num	CLEC Desc	CLEC Rev	Std Dev	Overall Avg	Overall Std	Overall Min	Overall Max	Overall Avg	Overall Std
Sep-00					625	31	591	659		
Oct-00	12	1	12 00		594	30	560	628	594	30
Nov-00	42	1	42 00		625	31	591	659	625	31
Dec-00					677	34	643	711		
Jan-01					534	28	500	568		
Feb-01					574	31	540	608		
Mar-01					708	36	674	742		
Apr-01					610	35	576	644		
May-01					625	31	591	659		
Jun-01					610	35	576	644		
Jul-01					625	31	591	659		
Aug-01					610	35	576	644		



New Service Installation Causes (Percent) (SEP 00 - AUG 01)

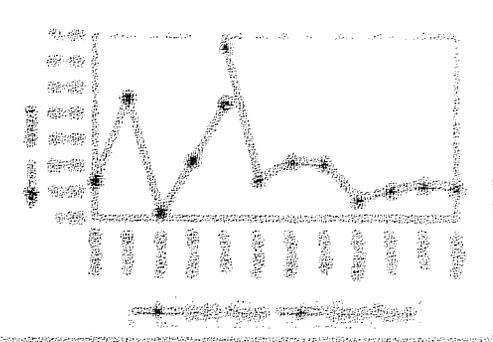
Date	CLEC Num	CLEC Desc	CLEC Rev	Std Dev	Overall Avg	Overall Std	Overall Min	Overall Max	Overall Avg	Overall Std
Sep-00	1	1	100 00%	0 00%	100	0	100	100	100	0
Oct-00	1	1	100 00%	0 00%	100	0	100	100	100	0
Nov-00	3	3	100 00%	0 00%	100	0	100	100	100	0
Dec-00	2	2	100 00%	0 00%	100	0	100	100	100	0
Jan-01					94	0	94	94	94	0
Feb-01	1	1	100 00%	0 00%	100	0	100	100	100	0
Mar-01	1	1	100 00%	0 00%	100	0	100	100	100	0
Apr-01					100	0	100	100	100	0
May-01	1	1	100 00%	0 00%	100	0	100	100	100	0
Jun-01	1	1	100 00%	0 00%	100	0	100	100	100	0
Jul-01	1	1	100 00%	0 00%	100	0	100	100	100	0
Aug-01	3	3	100 00%	0 00%	100	0	100	100	100	0



Checklist #4 - Unsubscribed Lines - CLEC Separate Billing Program

Interval for Pending Orders: Default Post Date: Run Date: 12/31/2001

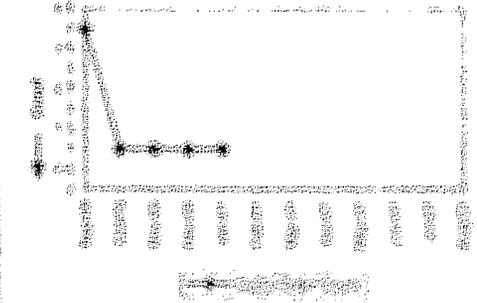
Date	CLEC Num	CLEC Desc	CLEC Res	Std Desc	Qwest Num	Qwest Desc	Qwest Res	Qwest F. Res	Qwest Desc
Sep-00	56		14 00	12 70					
Oct-00	46		46 00						
Nov-00	2		2 00						
Dec-00	22		22 00						
Jan-01	44		44 00						
Feb-01									
Mar-01									
Apr-01									
May-01									
Jun-01									
Jul-01									
Aug-01									



Checklist #1 - Unaffected Long - DSL Capacity

Count of Pending Orders Delayed for Facilities Reasons (Unaffected Long - DSL Capacity)

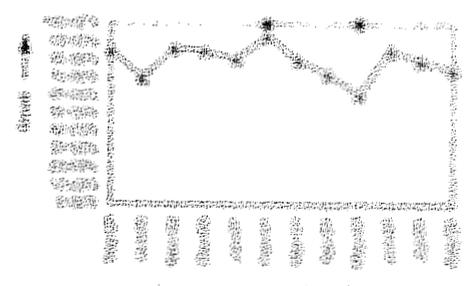
Date	CLEC Order Count
Sep-00	
Oct-00	
Nov-00	
Dec-00	
Jan-01	
Feb-01	
Mar-01	
Apr-01	
May-01	
Jun-01	
Jul-01	
Aug-01	



Checklist 24 - Line Item 24.01 - 2001 Data Summary

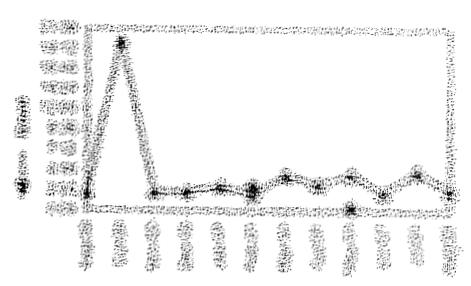
All Troubles Cleared within 4 hours (Process and 3 L. Average Data) - 2001

Date	CLEC Num	CLEC Desc	CLEC Res	Std Dev	Queue Num	Queue Desc	Queue Res	Queue Std Dev	Queue Desc
Sep-00					38	41	88.00%	0.24	0.00
Oct-00					43	43	75.00%		
Nov-00					39	43	80.00%		
Dec-00					41	44	78.00%		
Jan-01					42	42	80.00%		
Feb-01	1	1	100.00%	0.00%	143	143	85.00%	0.24	0.00
Mar-01					44	44	85.00%		
Apr-01					43	44	80.00%		
May-01	1	1	100.00%	0.00%	48	48	80.00%	0.24	0.00
Jun-01					45	44	85.00%		
Jul-01					41	44	80.00%		
Aug-01					43	44	80.00%		



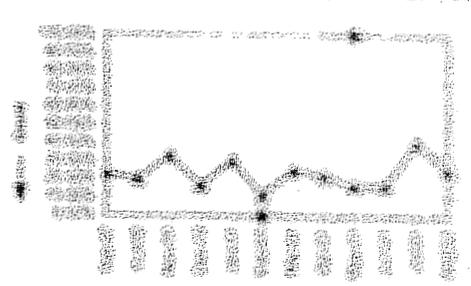
Mean Time to Resolve (Hours) (Process and 3 L. Average Data) - 2001

Date	CLEC Num	CLEC Desc	CLEC Res	Std Dev	Queue Num	Queue Desc	Queue Res	Queue Std Dev	Queue Desc
Sep-00					234.24	41	2.00		
Oct-00					271.34	43	2.00		
Nov-00					197.36	43	2.00		
Dec-00					77.4.24	44	2.00		
Jan-01					251.24	42	2.00		
Feb-01	2.51	1	2.51		234.24	143	0.00	0.00	0.00
Mar-01					237.34	40	2.00		
Apr-01					231.34	44	2.00		
May-01	0.21	1	0.21		247.34	48	2.00	0.24	0.00
Jun-01					271.44	44	2.00		
Jul-01					264.24	44	2.00		
Aug-01					271.44	44	2.00		



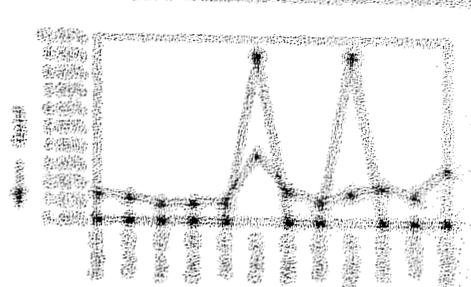
Repair Repeat Window Rate (Process and 3 L. Average Data) - 2001

Date	CLEC Num	CLEC Desc	CLEC Res	Std Dev	Queue Num	Queue Desc	Queue Res	Queue Std Dev	Queue Desc
Sep-00					31	41	87.00%		
Oct-00					31	41	80.00%		
Nov-00					31	41	80.00%		
Dec-00					31	41	80.00%		
Jan-01					31	41	80.00%		
Feb-01	0	1	0.00%	0.00%	31	41	80.00%	0.24	0.00
Mar-01					31	41	80.00%		
Apr-01					31	41	80.00%		
May-01	1	1	100.00%	0.00%	31	41	80.00%	0.24	0.00
Jun-01					31	41	80.00%		
Jul-01					31	41	80.00%		
Aug-01					31	41	80.00%		



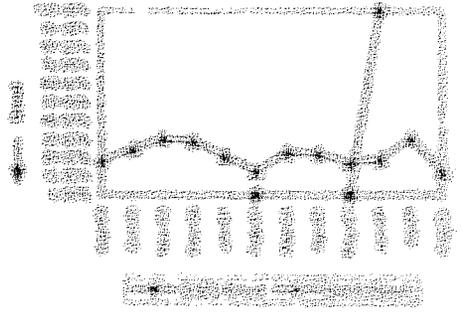
Trouble Rate (Percent) (Process and 3 L. Average Data) - 2001

Date	CLEC Num	CLEC Desc	CLEC Res	Std Dev	Queue Num	Queue Desc	Queue Res	Queue Std Dev	Queue Desc
Sep-00	0	2	0.00%	0.00%	41	41	0.00%	0.00	0.00
Oct-00	0	4	0.00%	0.00%	43	43	0.00%	0.00	0.00
Nov-00	0	7	0.00%	0.00%	43	43	0.00%	0.00	0.00
Dec-00	0	7	0.00%	0.00%	44	44	0.00%	0.00	0.00
Jan-01	0	7	0.00%	0.00%	42	42	0.00%	0.00	0.00
Feb-01	1	11	0.00%	28.75%	143	143	0.00%	0.00	0.00
Mar-01	0	11	0.00%	0.00%	44	44	0.00%	0.00	0.00
Apr-01	0	11	0.00%	0.00%	44	44	0.00%	0.00	0.00
May-01	1	11	0.00%	28.75%	48	48	0.00%	0.00	0.00
Jun-01	0	12	0.00%	0.00%	44	44	0.00%	0.00	0.00
Jul-01	0	13	0.00%	0.00%	44	44	0.00%	0.00	0.00
Aug-01	0	13	0.00%	0.00%	44	44	0.00%	0.00	0.00



Customer and Non-Customer Related Service Requests (Average #/Day) - Actual Results vs Plan

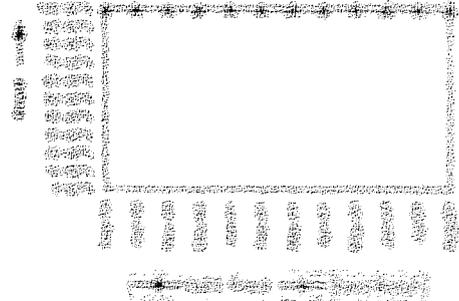
Date	CLEC Num	CLEC Day	CLEC Day	Plan Day	Actual Day	Actual Plan	Actual Plan	Actual Plan	Actual Plan
Sep-00					42	42	42	42	42
Oct-00					38	38	38	38	38
Nov-00					40	40	40	40	40
Dec-00					41	41	41	41	41
Jan-01					44	44	44	44	44
Feb-01	5	1	0.00%	5.00%	36	36	36	36	36
Mar-01					39	39	39	39	39
Apr-01					40	40	40	40	40
May-01	0	1	0.00%	0.00%	38	38	38	38	38
Jun-01	1	1	100.00%	0.00%	34	34	34	34	34
Jul-01					34	34	34	34	34
Aug-01					37	37	37	37	37



Checklist #4 - Unsettled Lines - (MAY 2001) - (continued)

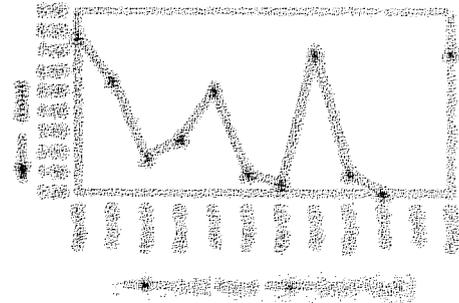
Installation Comments: Non-Standard CLEC 3 - (continued) (continued)

Date	CLEC Num	CLEC Desc	CLEC Desc	Line Desc	Unsettled Lines				
Sep-00					0	0	0	0	0
Oct-00					0	0	0	0	0
Nov-00					0	0	0	0	0
Dec-00					0	0	0	0	0
Jan-01					0	0	0	0	0
Feb-01					0	0	0	0	0
Mar-01					0	0	0	0	0
Apr-01					0	0	0	0	0
May-01					0	0	0	0	0
Jun-01					0	0	0	0	0
Jul-01					0	0	0	0	0
Aug-01					0	0	0	0	0



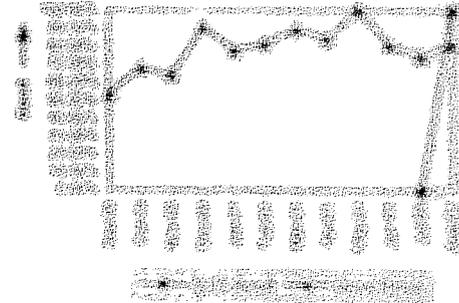
Installation Comments: Unsettled Lines - (MAY 2001) - (continued) (continued)

Date	CLEC Num	CLEC Desc	CLEC Desc	Line Desc	Unsettled Lines				
Sep-00					0	0	0	0	0
Oct-00					0	0	0	0	0
Nov-00					0	0	0	0	0
Dec-00					0	0	0	0	0
Jan-01					0	0	0	0	0
Feb-01					0	0	0	0	0
Mar-01					0	0	0	0	0
Apr-01					0	0	0	0	0
May-01					0	0	0	0	0
Jun-01					0	0	0	0	0
Jul-01					0	0	0	0	0
Aug-01					0	0	0	0	0



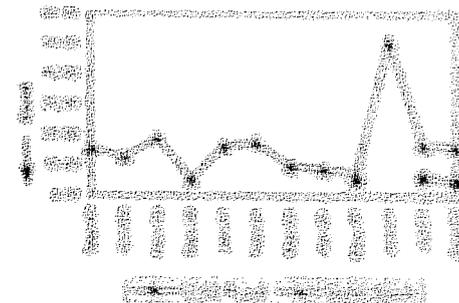
Installation Comments: Unsettled Lines - (MAY 2001) - (continued) (continued)

Date	CLEC Num	CLEC Desc	CLEC Desc	Line Desc	Unsettled Lines				
Sep-00					0	0	0	0	0
Oct-00					0	0	0	0	0
Nov-00					0	0	0	0	0
Dec-00					0	0	0	0	0
Jan-01					0	0	0	0	0
Feb-01					0	0	0	0	0
Mar-01					0	0	0	0	0
Apr-01					0	0	0	0	0
May-01	1	1	100-0000	0-0000	0	0	0	0	0
Jun-01	0	0	0-0000	0-0000	0	0	0	0	0
Jul-01	0	0	0-0000	0-0000	0	0	0	0	0
Aug-01	4	4	100-0000	0-0000	0	0	0	0	0



Installation Comments: Unsettled Lines - (MAY 2001) - (continued) (continued)

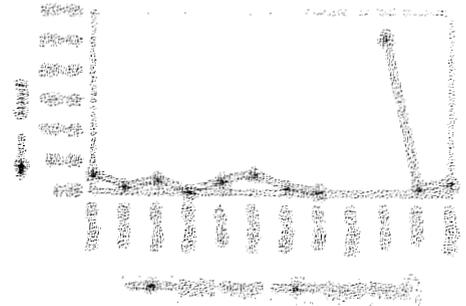
Date	CLEC Num	CLEC Desc	CLEC Desc	Line Desc	Unsettled Lines				
Sep-00					0	0	0	0	0
Oct-00					0	0	0	0	0
Nov-00					0	0	0	0	0
Dec-00					0	0	0	0	0
Jan-01					0	0	0	0	0
Feb-01					0	0	0	0	0
Mar-01					0	0	0	0	0
Apr-01					0	0	0	0	0
May-01	5	1	0-00	0-00	0	0	0	0	0
Jun-01	6	1	0-00	0-00	0	0	0	0	0
Jul-01	6	1	0-00	0-00	0	0	0	0	0
Aug-01	14	3	0-00	0-00	0	0	0	0	0



Checklist #1 - Performance Indicators - 2007-2008

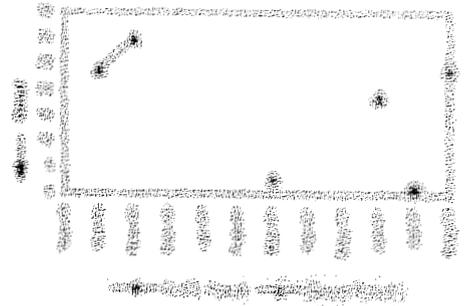
Delayed Days for Non-Facility Work (Work Order Completion Delay) - 2007-2008

Date	CLEC Num	CLEC Desc	CLEC Rev	Est Date	Actual Date	Days Delay	Days Delay	Days Delay	Days Delay
Sep-00					28	0	0	0	0
Oct-00					40	0	0	0	0
Nov-00					48	0	0	0	0
Dec-00					1	1	1	1	1
Jan-01					65	0	0	0	0
Feb-01					70	0	0	0	0
Mar-01					50	0	0	0	0
Apr-01					1	1	1	1	1
May-01					70	0	0	0	0
Jun-01					70	0	0	0	0
Jul-01					45	0	0	0	0
Aug-01					50	0	0	0	0



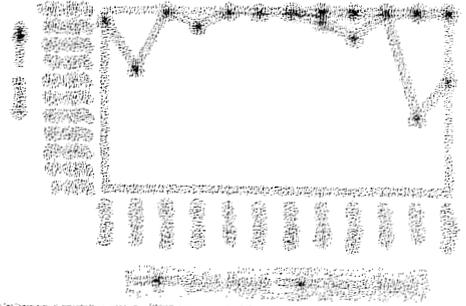
Delayed Days for Facility Work (Work Order Completion Delay) - 2007-2008

Date	CLEC Num	CLEC Desc	CLEC Rev	Est Date	Actual Date	Days Delay	Days Delay	Days Delay	Days Delay
Sep-00					24	0	0	0	0
Oct-00					60	0	0	0	0
Nov-00					1	1	1	1	1
Dec-00					1	1	1	1	1
Jan-01					1	1	1	1	1
Feb-01					1	1	1	1	1
Mar-01					1	1	1	1	1
Apr-01					1	1	1	1	1
May-01					1	1	1	1	1
Jun-01					1	1	1	1	1
Jul-01					1	1	1	1	1
Aug-01					1	1	1	1	1



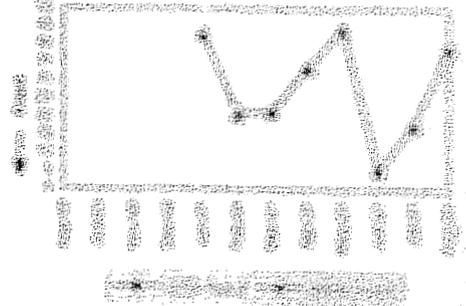
New Service Installation Quality (Percentage of Work Orders Closed on First Try) - 2007-2008

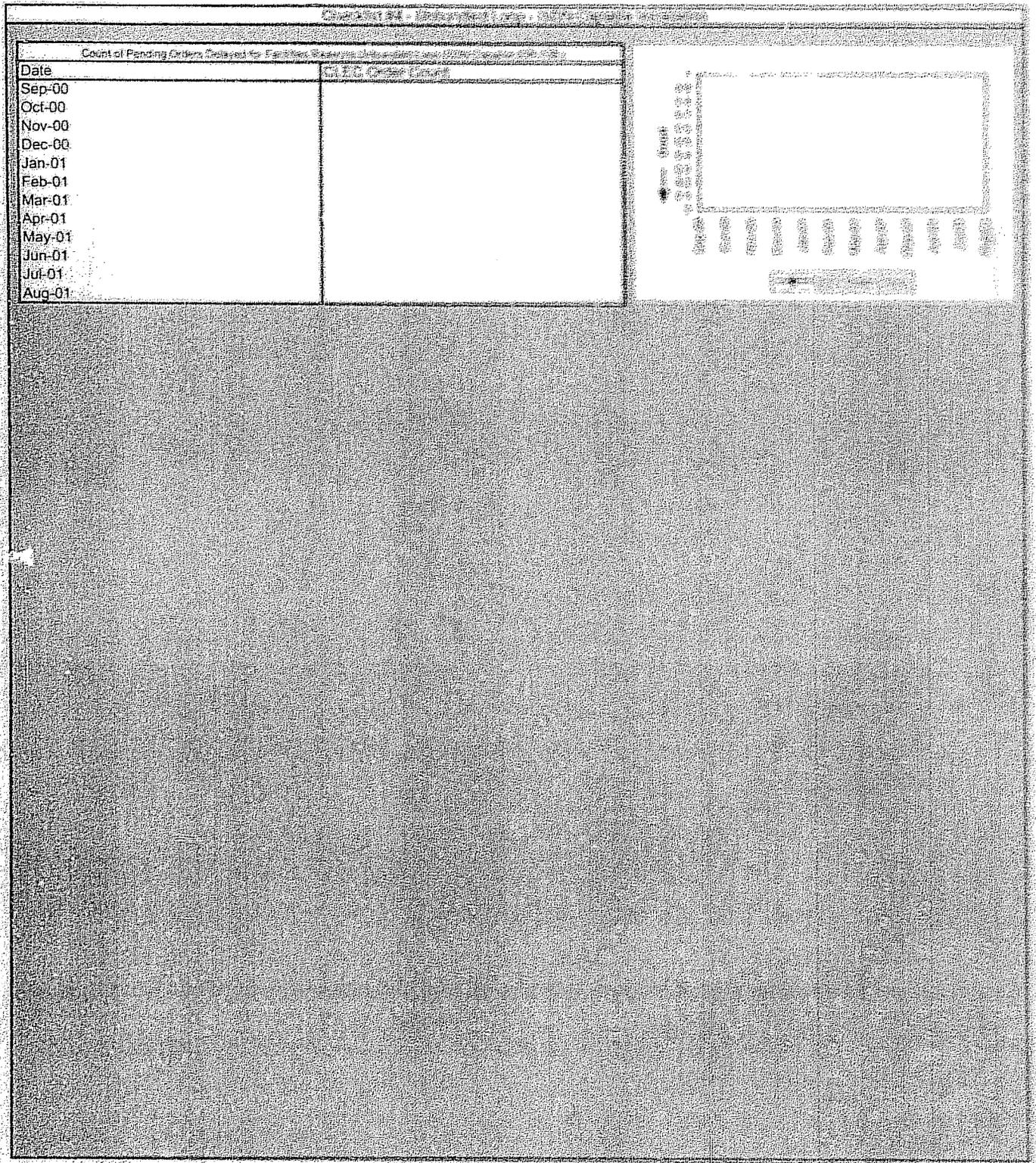
Date	CLEC Num	CLEC Desc	CLEC Rev	Est Date	Actual Date	Days Delay	Days Delay	Days Delay	Days Delay
Sep-00					24	0	0	0	0
Oct-00					24	0	0	0	0
Nov-00					24	0	0	0	0
Dec-00					24	0	0	0	0
Jan-01					24	0	0	0	0
Feb-01					24	0	0	0	0
Mar-01	1	1	1	1	24	0	0	0	0
Apr-01	1	1	1	1	24	0	0	0	0
May-01	1	1	1	1	24	0	0	0	0
Jun-01	1	1	1	1	24	0	0	0	0
Jul-01	1	1	1	1	24	0	0	0	0
Aug-01	1	1	1	1	24	0	0	0	0



Delayed Days for Facility Work (Work Order Completion Delay) - 2007-2008

Date	CLEC Num	CLEC Desc	CLEC Rev	Est Date	Actual Date	Days Delay	Days Delay	Days Delay	Days Delay
Sep-00					24	0	0	0	0
Oct-00					24	0	0	0	0
Nov-00					24	0	0	0	0
Dec-00					24	0	0	0	0
Jan-01					24	0	0	0	0
Feb-01					24	0	0	0	0
Mar-01					24	0	0	0	0
Apr-01					24	0	0	0	0
May-01					24	0	0	0	0
Jun-01					24	0	0	0	0
Jul-01					24	0	0	0	0
Aug-01					24	0	0	0	0



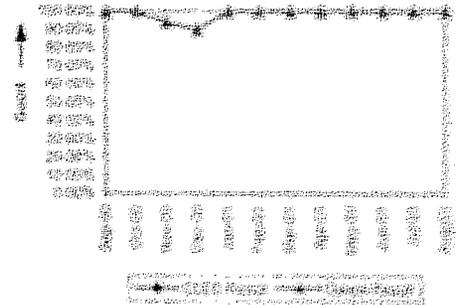


Section 1									
Month	Year	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
2010	2010								
2011	2011								
2012	2012								
2013	2013								
2014	2014								
2015	2015								
2016	2016								
2017	2017								
2018	2018								
2019	2019								
2020	2020								
2021	2021								
2022	2022								
2023	2023								
2024	2024								
2025	2025								
2026	2026								
2027	2027								
2028	2028								
2029	2029								
2030	2030								

Checklist #4 - Unbundled Loop - ISDN Capable Repair

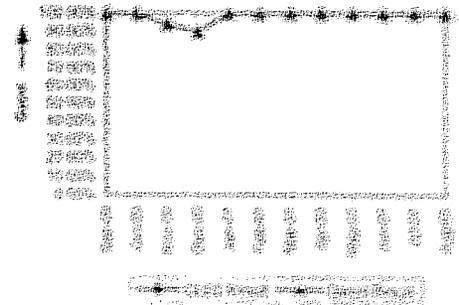
Out of Service Cleared within 24 hours (Percent) (MR-3) - Interval Zone Two

Date	CLEC Num	CLEC Dend	CLEC Res	Std Dev	Qwest Num	Qwest Dend	Qwest Res	Max 2 Sec	Party Score
Sep-00					20	20	100.00%		
Oct-00					16	16	100.00%		
Nov-00					16	17	94.12%		
Dec-00					9	10	90.00%		
Jan-01					4	4	100.00%		
Feb-01					2	2	100.00%		
Mar-01					4	4	100.00%		
Apr-01					5	5	100.00%		
May-01					7	7	100.00%		
Jun-01					5	5	100.00%		
Jul-01					4	4	100.00%		
Aug-01					4	4	100.00%		



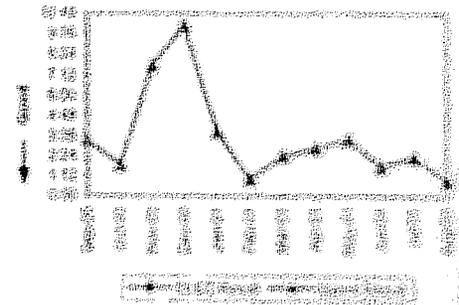
All Troubles Cleared within 48 hours (Percent) (MR-4) - Interval Zone Two

Date	CLEC Num	CLEC Dend	CLEC Res	Std Dev	Qwest Num	Qwest Dend	Qwest Res	Max 2 Sec	Party Score
Sep-00					20	20	100.00%		
Oct-00					19	19	100.00%		
Nov-00					16	17	94.12%		
Dec-00					9	10	90.00%		
Jan-01					4	4	100.00%		
Feb-01					2	2	100.00%		
Mar-01					4	4	100.00%		
Apr-01					5	5	100.00%		
May-01					7	7	100.00%		
Jun-01					4	5	100.00%		
Jul-01					4	4	100.00%		
Aug-01					4	4	100.00%		



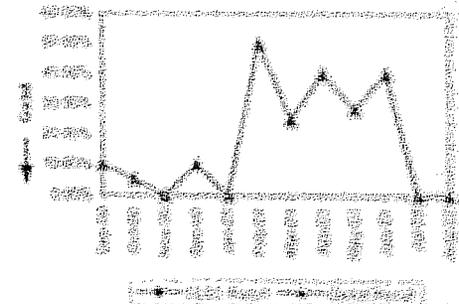
Mean Time to Restore (Hours:Minutes) (MR-5) - Interval Zone Two

Date	CLEC Num	CLEC Dend	CLEC Res	Std Dev	Qwest Num	Qwest Dend	Qwest Res	Max 2 Sec	Party Score
Sep-00					67:25	20	2:27		
Oct-00					33:33	19	1:32		
Nov-00					131:59	10	7:50		
Dec-00					120:47	10	10:05		
Jan-01					15:30	4	3:30		
Feb-01					2:04	0	5:00		
Mar-01					9:40	4	3:25		
Apr-01					14:23	5	3:03		
May-01					23:34	7	3:28		
Jun-01					5:50	5	1:48		
Jul-01					9:22	4	3:20		
Aug-01					3:44	4	0:54		



Repair Repeat Report Rate (Percent) (MR-7) - Interval Zone Two

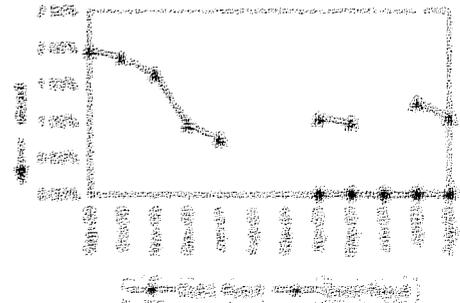
Date	CLEC Num	CLEC Dend	CLEC Res	Std Dev	Qwest Num	Qwest Dend	Qwest Res	Max 2 Sec	Party Score
Sep-00					0	20	0.00%		
Oct-00					1	16	6.25%		
Nov-00					0	17	0.00%		
Dec-00					1	10	10.00%		
Jan-01					0	0	0.00%		
Feb-01					1	2	50.00%		
Mar-01					1	4	25.00%		
Apr-01					2	5	40.00%		
May-01					2	7	28.57%		
Jun-01					2	6	33.33%		
Jul-01					0	4	0.00%		
Aug-01					0	4	0.00%		



Checklist #4 - Untended Loop - ISDN Capable Regions

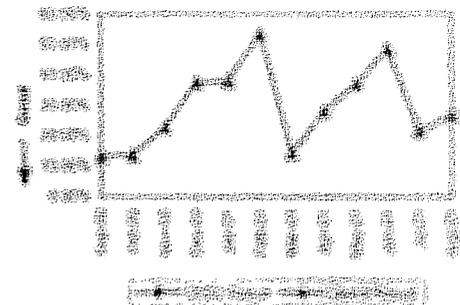
Trouble Rate (Percent) (MR-6) - Interval Zoned One and Two

Date	CLEC Num	CLEC Dend	CLEC Resl	Std Dev	Qwest Num	Qwest Den	Qwest Rate	Max 2 Day	Party Score
Sep-00					20	1018	1.96%		
Oct-00					19	938	1.87%		
Nov-00					17	833	1.85%		
Dec-00					10	1056	0.95%		
Jan-01					13	1633	0.77%		
Feb-01									
Mar-01									
Apr-01	0	1	0.00%	0.00%	18	1710	1.05%	0	1.00
May-01	0	2	0.00%	0.00%	17	1700	0.99%	0.00	1.00
Jun-01	0	2	0.00%	0.00%					
Jul-01	0	3	0.00%	0.00%	20	1780	1.12%	0.00	1.00
Aug-01	0	2	0.00%	0.00%	14	1752	0.79%	0.00	1.00



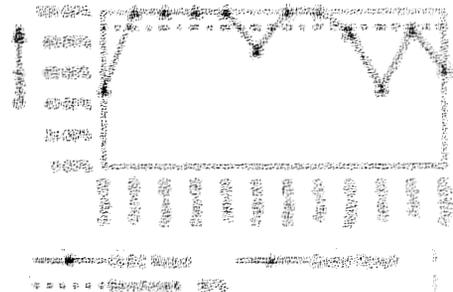
Customer and Non-Qwest Related Trouble Reports (Discrete) (MR-10) - Interval Zoned One and Two

Date	CLEC Num	CLEC Dend	CLEC Resl	Std Dev	Qwest Num	Qwest Den	Qwest Rate	Max 2 Day	Party Score
Sep-00					3	24	12.50%		
Oct-00					1	20	5.00%		
Nov-00					5	21	23.81%		
Dec-00					6	16	37.50%		
Jan-01					6	21	28.57%		
Feb-01					5	15	33.33%		
Mar-01					3	21	14.29%		
Apr-01					7	20	35.00%		
May-01					10	27	37.04%		
Jun-01					16	30	53.33%		
Jul-01					6	24	25.00%		
Aug-01					7	24	29.17%		

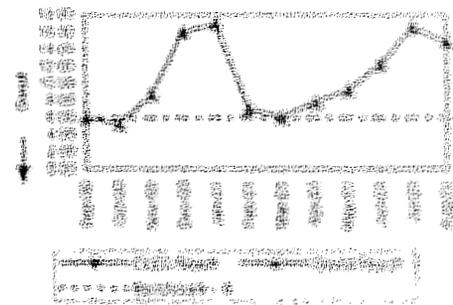


Checklist #4 - Untanded Loop - AISC, Class of Service

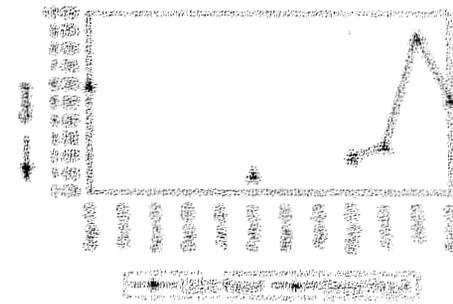
Installation Commitments Met (Percent) (CP-3) - Interval Zone One							
Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Met % Req
Sep-00				1	2	50	50%
Oct-00				4	4	100	100%
Nov-00				3	3	100	100%
Dec-00				1	1	100	100%
Jan-01				1	1	100	100%
Feb-01				5	4	75	75%
Mar-01				2	2	100	100%
Apr-01				4	4	100	100%
May-01				6	7	85	71%
Jun-01				3	4	75	75%
Jul-01				7	8	87	89%
Aug-01				5	5	100	100%



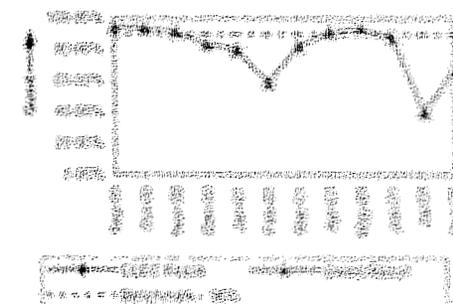
Installation Interval (Average Days) (CP-4) - Interval Zone One							
Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Met % Req
Sep-00				12	2	6.00	
Oct-00				21	4	5.25	
Nov-00				28	3	9.33	
Dec-00				16	1	16.00	
Jan-01				17	1	17.00	
Feb-01				28	4	7.00	
Mar-01				15	2	7.50	
Apr-01				34	4	8.50	
May-01				64	5	12.80	
Jun-01				73	6	12.17	
Jul-01				155	10	15.50	
Aug-01				100	5	20.00	



Delayed Days for Non-Facility Reasons (Average Days) (CP-5A) - Interval Zone One							
Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Met % Req
Sep-00				6	1	0.00	
Oct-00							
Nov-00							
Dec-00							
Jan-01							
Feb-01				1	1	1.00	
Mar-01							
Apr-01							
May-01				2	1	2.00	
Jun-01				8	2	4.00	
Jul-01				26	3	8.67	
Aug-01				21	4	5.25	



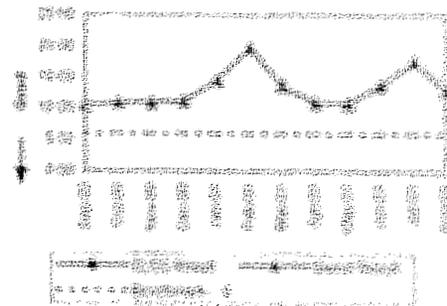
Installation Commitments Met (Percent) (CP-3) - Interval Zone Two							
Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Met % Req
Sep-00				120	127	94	94%
Oct-00				178	188	94	94%
Nov-00				125	137	91	91%
Dec-00				130	154	84	84%
Jan-01				106	134	79	79%
Feb-01				115	252	46	46%
Mar-01				134	150	89	89%
Apr-01				123	135	91	91%
May-01				75	73	103	103%
Jun-01				47	45	104	104%
Jul-01				2	2	100	100%
Aug-01				2	2	100	100%



Checklist #4 - Unbundled Loop - ADL - Core Fed Installation

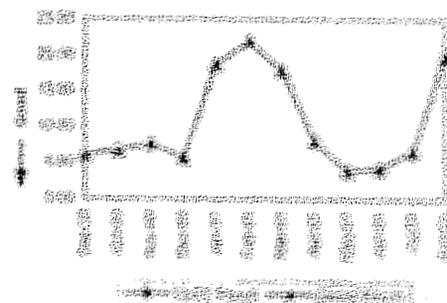
Installation Interval (Average Days) (OP-4.1 - Interval Zone Two)

Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Percent	Met 2 Std	Met 3 Std
Sep-00				1334	153	95.4%		
Oct-00				2057	188	90.9%		
Nov-00				1596	132	91.6%		
Dec-00				1749	156	91.2%		
Jan-01				1506	134	91.1%		
Feb-01				2678	251	90.7%		
Mar-01				2367	188	92.0%		
Apr-01				1488	152	90.0%		
May-01				812	75	90.8%		
Jun-01				652	49	92.3%		
Jul-01				85	5	94.1%		
Aug-01				39	3	92.3%		



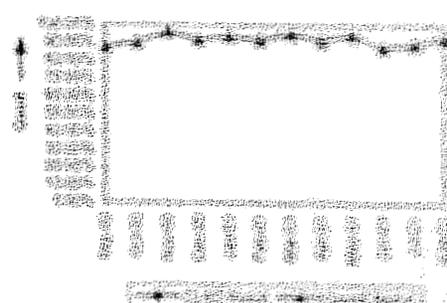
Delayed Days for Non-Facility Reasons (Average Days) (OP-4.1 - Interval Zone Two)

Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Percent	Met 2 Std	Met 3 Std
Sep-00				43	7	86.3%		
Oct-00				55	12	78.2%		
Nov-00				92	12	87.0%		
Dec-00				149	26	82.6%		
Jan-01				505	73	85.5%		
Feb-01				1824	83	95.5%		
Mar-01				535	26	95.1%		
Apr-01				97	12	87.7%		
May-01				26	3	88.5%		
Jun-01				25	4	84.0%		
Jul-01				25	3	88.0%		
Aug-01				20	1	95.0%		



New Service Installation Quality (Percent) (OP-5.1 - Interval Zone Two)

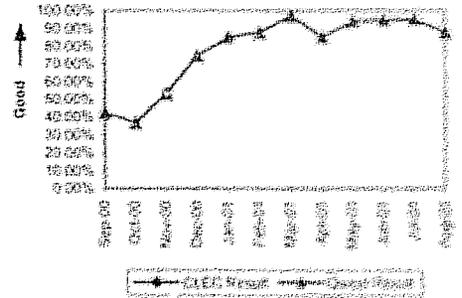
Date	CLEC Num	CLEC Denom	CLEC Result	Qwest Num	Qwest Denom	Qwest Percent	Met 2 Std	Met 3 Std
Sep-00				501	162	87.65%		
Oct-00				545	161	90.06%		
Nov-00				563	169	89.45%		
Dec-00				537	148	91.01%		
Jan-01				530	147	91.84%		
Feb-01				559	132	91.81%		
Mar-01				583	132	91.51%		
Apr-01				544	157	91.72%		
May-01				503	143	94.06%		
Jun-01				54	73	87.67%		
Jul-01				34	38	89.47%		
Aug-01				15	34	97.06%		



Checklist #4 - Unbundled Loop - ADSL Qualified Repair

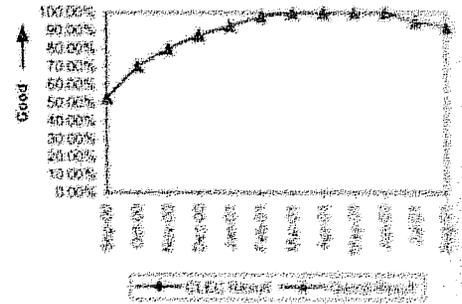
Out of Service Cleared within 24 hours (Percent) (MR-3) - Interval Zone Two

Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Mod Z Scr	Parity Score
Sep-00				20	47	42.55%		
Oct-00				10	27	37.04%		
Nov-00				8	15	53.33%		
Dec-00				18	24	75.00%		
Jan-01				35	41	85.37%		
Feb-01				44	50	88.00%		
Mar-01				36	37	97.30%		
Apr-01				35	41	85.37%		
May-01				16	17	94.12%		
Jun-01				38	40	95.00%		
Jul-01				20	21	95.24%		
Aug-01				22	25	88.00%		



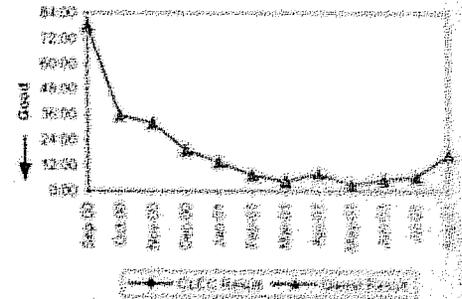
All Troubles Cleared within 48 hours (Percent) (MR-4) - Interval Zone Two

Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Mod Z Scr	Parity Score
Sep-00				25	47	53.19%		
Oct-00				19	27	70.37%		
Nov-00				12	15	80.00%		
Dec-00				21	24	87.50%		
Jan-01				38	41	92.68%		
Feb-01				49	50	98.00%		
Mar-01				37	37	100.00%		
Apr-01				41	41	100.00%		
May-01				17	17	100.00%		
Jun-01				40	40	100.00%		
Jul-01				26	21	95.24%		
Aug-01				23	25	92.00%		



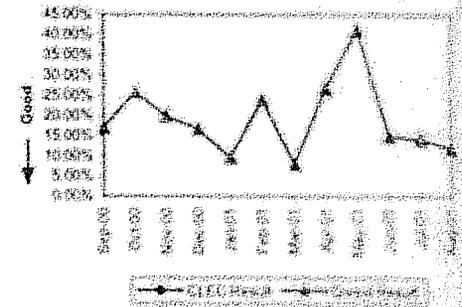
Mean Time to Restore (Hours:Minutes) (MR-5) - Interval Zone Two

Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Mod Z Scr	Parity Score
Sep-00				3672:55	47	78:09		
Oct-00				962:41	27	35:38		
Nov-00				479:19	15	31:57		
Dec-00				464:26	24	19:21		
Jan-01				562:08	41	13:43		
Feb-01				382:32	50	7:39		
Mar-01				172:11	37	4:39		
Apr-01				338:09	41	8:15		
May-01				49:06	17	2:53		
Jun-01				208:17	40	5:12		
Jul-01				141:22	21	6:44		
Aug-01				428:50	25	17:09		



Repair Repeat Report Rate (Percent) (MR-7) - Interval Zone Two

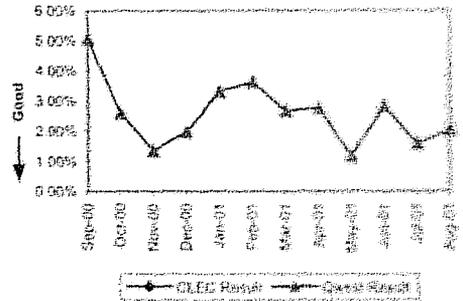
Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Mod Z Scr	Parity Score
Sep-00				8	47	17.02%		
Oct-00				7	27	25.93%		
Nov-00				3	15	20.00%		
Dec-00				4	24	16.67%		
Jan-01				4	41	9.76%		
Feb-01				12	50	24.00%		
Mar-01				3	37	8.11%		
Apr-01				11	41	26.83%		
May-01				7	17	41.18%		
Jun-01				6	40	15.00%		
Jul-01				3	21	14.29%		
Aug-01				3	25	12.00%		



Checklist #4 - Unbundled Loop - ADSL Qualified Repair

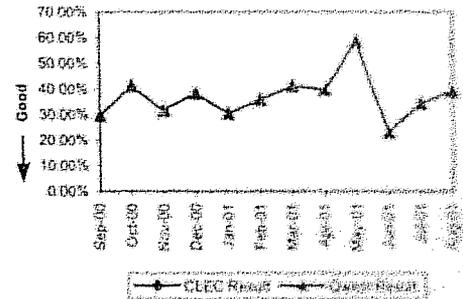
Trouble Rate (Percent) (MR-8) - Interval Zone One and Two

Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Mod Z Scr	Parity Score
Sep-00				47	928	5.06%		
Oct-00				27	1038	2.69%		
Nov-00				15	1094	1.37%		
Dec-00				24	1205	1.99%		
Jan-01				41	1233	3.33%		
Feb-01				50	1378	3.63%		
Mar-01				37	1378	2.69%		
Apr-01				41	1482	2.77%		
May-01				17	1455	1.17%		
Jun-01				40	1405	2.85%		
Jul-01				21	1315	1.60%		
Aug-01				25	1224	2.04%		



Customer and Non-Qwest Related Trouble Reports (Percent) (MR-10) - Interval Zone One and Two

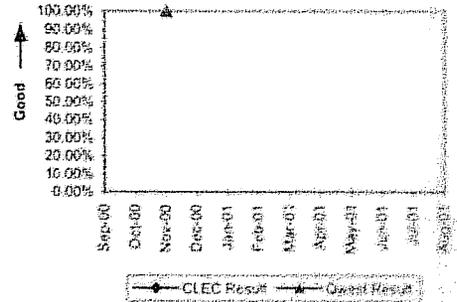
Date	CLEC Num	CLEC Denor	CLEC Result	Qwest Num	Qwest Denor	Qwest Result	Mod Z Scr	Parity Score
Sep-00				20	67	29.85%		
Oct-00				19	46	41.30%		
Nov-00				7	22	31.82%		
Dec-00				15	39	38.46%		
Jan-01				18	59	30.51%		
Feb-01				28	78	35.90%		
Mar-01				26	63	41.27%		
Apr-01				27	68	39.71%		
May-01				24	41	58.54%		
Jun-01				12	52	23.08%		
Jul-01				11	32	34.38%		
Aug-01				16	41	39.02%		



Checklist #4 - Unbundled Loop - Installation for DS3 and Higher

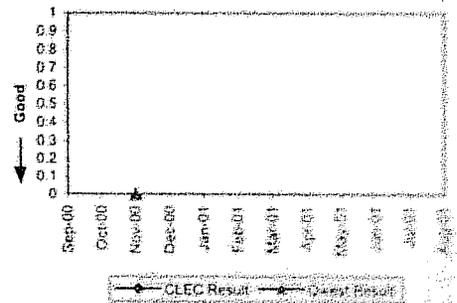
Installation Commitments Met (Percent) (OP-3) - Interval Zone One

Date	CLEC Num	CLEC Desc	CLEC Res	Std Dev	Qwest Num	Qwest Desc	Qwest Res	Mod Z Scr	Parity Scr
Sep-00									
Oct-00									
Nov-00					1	1	100.00%		
Dec-00									
Jan-01									
Feb-01									
Mar-01									
Apr-01									
May-01									
Jun-01									
Jul-01									
Aug-01									



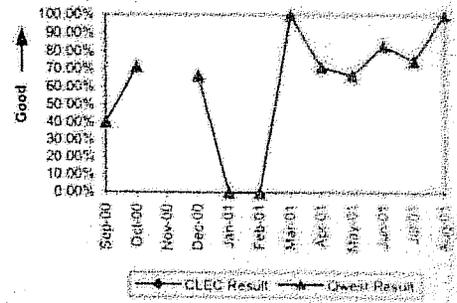
Installation Interval (Average Days) (OP-4) - Interval Zone One

Date	CLEC Num	CLEC Desc	CLEC Res	Std Dev	Qwest Num	Qwest Desc	Qwest Res	Mod Z Scr	Parity Scr
Sep-00									
Oct-00									
Nov-00					0	1	0.00		
Dec-00									
Jan-01									
Feb-01									
Mar-01									
Apr-01									
May-01									
Jun-01									
Jul-01									
Aug-01									



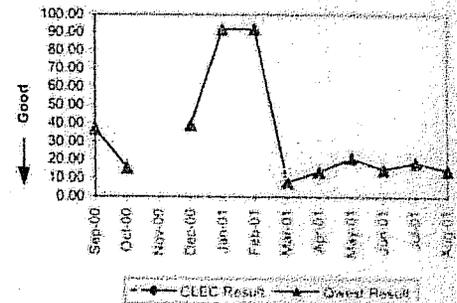
Installation Commitments Met (Percent) (OP-3) - Interval Zone Two

Date	CLEC Num	CLEC Desc	CLEC Res	Std Dev	Qwest Num	Qwest Desc	Qwest Res	Mod Z Scr	Parity Scr
Sep-00					2	5	40.00%		
Oct-00					5	7	71.43%		
Nov-00									
Dec-00					2	3	66.67%		
Jan-01					0	4	0.00%		
Feb-01					0	1	0.00%		
Mar-01					2	2	100.00%		
Apr-01					5	7	71.43%		
May-01					2	3	66.67%		
Jun-01					5	6	83.33%		
Jul-01					3	4	75.00%		
Aug-01					1	1	100.00%		



Installation Interval (Average Days) (OP-4) - Interval Zone Two

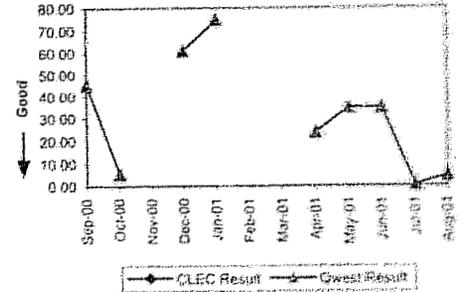
Date	CLEC Num	CLEC Desc	CLEC Res	Std Dev	Qwest Num	Qwest Desc	Qwest Res	Mod Z Scr	Parity Scr
Sep-00					185	5	37.00		
Oct-00					110	7	15.71		
Nov-00									
Dec-00					118	3	39.33		
Jan-01					368	4	92.00		
Feb-01					92	1	92.00		
Mar-01					16	2	8.00		
Apr-01					96	7	13.71		
May-01					64	3	21.33		
Jun-01					89	6	14.83		
Jul-01					93	5	18.60		
Aug-01					73	5	14.60		



Checklist #4 - Unbundled Loop - Installation for DS3 and Higher

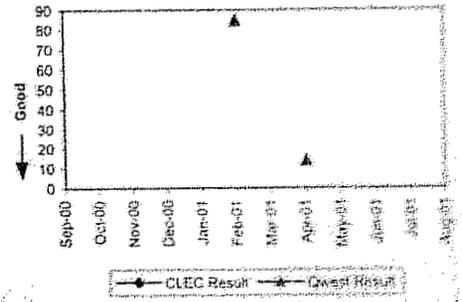
Delayed Days for Non-Facility Reasons (Average Days) (OP-6A) - Interval Zone Two

Date	CLEC Num	CLEC Denr	CLEC Resl	Std Dev	Qwest Num	Qwest Denr	Qwest Resl	Mod Z Scr	Parity Scr
Sep-00					136	3	45.33		
Oct-00					11	2	5.50		
Nov-00									
Dec-00					61	1	61.00		
Jan-01					300	4	75.00		
Feb-01									
Mar-01									
Apr-01					24	1	24.00		
May-01					35	1	35.00		
Jun-01					35	1	35.00		
Jul-01					1	2	0.50		
Aug-01					16	4	4.50		



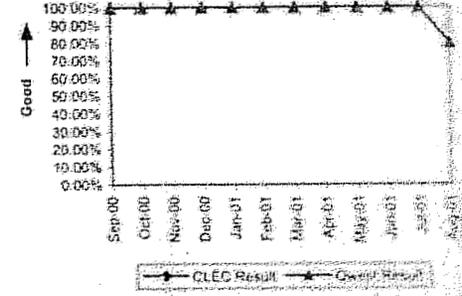
Delayed Days for Facility Reasons (Average Days) (OP-6B) - Interval Zone Two

Date	CLEC Num	CLEC Denr	CLEC Resl	Std Dev	Qwest Num	Qwest Denr	Qwest Resl	Mod Z Scr	Parity Scr
Sep-00									
Oct-00									
Nov-00									
Dec-00									
Jan-01									
Feb-01					85	1	85.00		
Mar-01									
Apr-01					14	1	14.00		
May-01									
Jun-01									
Jul-01									
Aug-01									



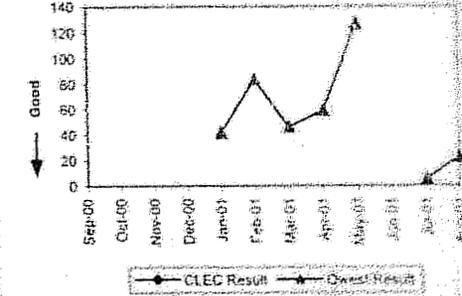
New Service Installation Quality (Percent) (OP-5) - Interval Zone One and Two

Date	CLEC Num	CLEC Denr	CLEC Resl	Std Dev	Qwest Num	Qwest Denr	Qwest Resl	Mod Z Scr	Parity Scr
Sep-00					6	6	100.00%		
Oct-00					9	9	100.00%		
Nov-00					10	10	100.00%		
Dec-00					8	8	100.00%		
Jan-01					7	7	100.00%		
Feb-01					5	5	100.00%		
Mar-01					7	7	100.00%		
Apr-01					11	11	100.00%		
May-01					9	9	100.00%		
Jun-01					8	8	100.00%		
Jul-01					6	6	100.00%		
Aug-01					4	5	80.00%		



Interval for Pending Orders Delayed Past Dub Date (Average Days) (OP-15A)

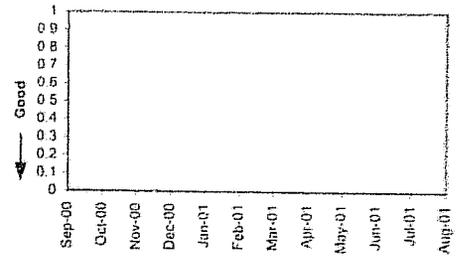
Date	CLEC Num	CLEC Denr	CLEC Resl	Std Dev	Qwest Num	Qwest Denr	Qwest Resl	Mod Z Scr	Parity Scr
Sep-00									
Oct-00									
Nov-00									
Dec-00									
Jan-01					42	1	42.00		
Feb-01					166	2	84.00		
Mar-01					93	2	46.50		
Apr-01					119	2	59.50		
May-01					127	1	127.00		
Jun-01									
Jul-01					11	2	5.50		
Aug-01					92	4	23.00		



Checklist 53 - Unbundled Loop - Installation for DS3 and Higher

Checklist 53 - Unbundled Loop - Installation for DS3 and Higher (BIS Capable (IP 15B))

CLEC Order Count

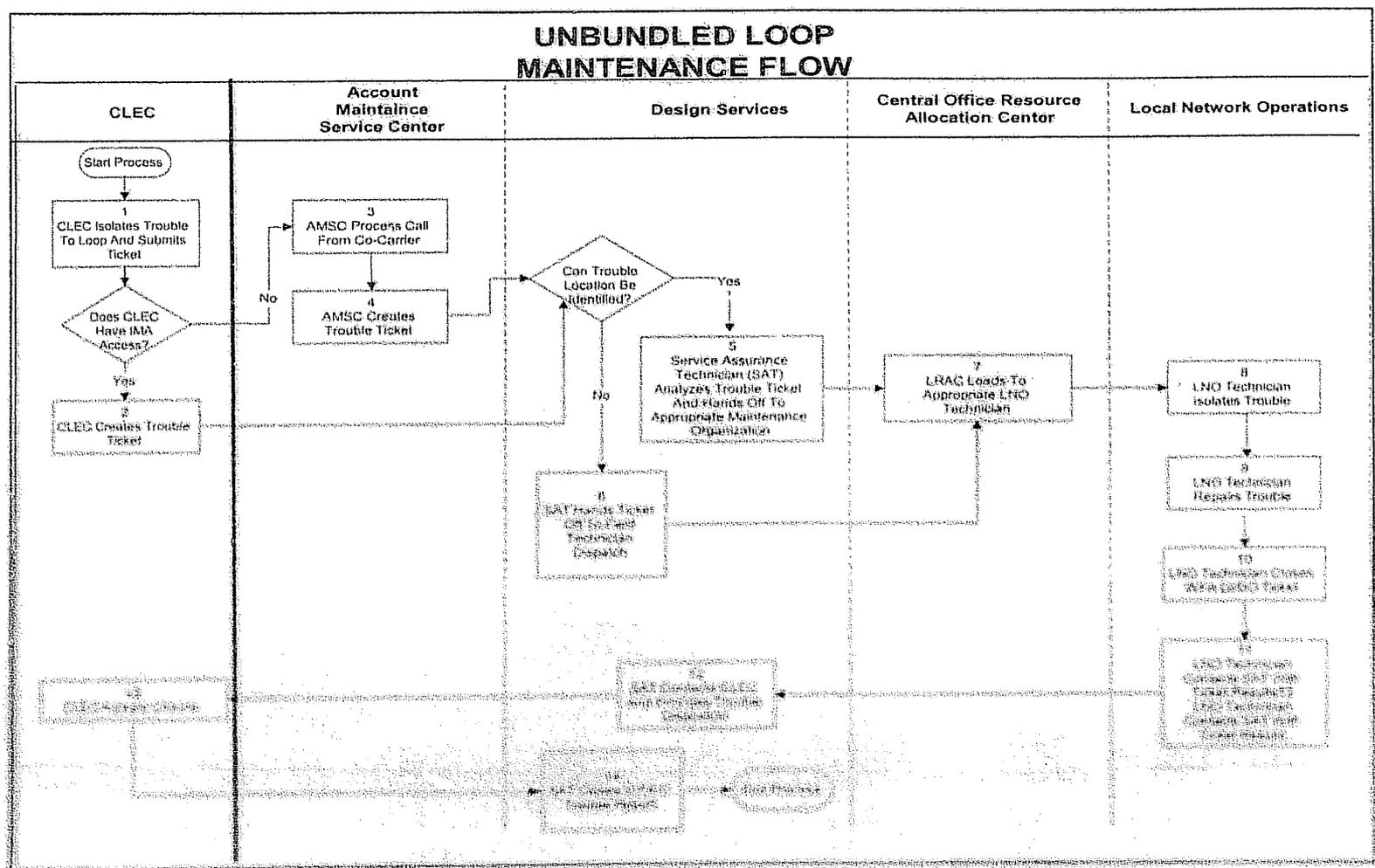


● CLEC Order Count

CONTINUATION

[7]

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CONTINUATION

[8.]

Unbundled Local Loop Maintenance Task List

Assoc. Task #	Process
1 or 2	Trouble ticket submitted NOTE: If CLEC has a system interface they may submit report electronically. Otherwise CLEC calls AMSC to report trouble and steps 2 and 3 are required.
3	Process ticket received from CLEC
4	Trouble ticket created
5	Analyze trouble ticket, identify location, and assign to appropriate organization
6	When trouble location cannot be identified, ticket assigned to Installation & Maintenance Technician
7	Trouble ticket received in Network Operations
8	Trouble is isolated
9	Trouble repaired
10	Trouble ticket updated
11	Contact SAT with ticket results
12	CLEC notified
13 and 14	CLEC accepts service and Trouble ticket closed

3.7.2 Available Advanced Digital Channel NCI Codes

Table 3-? Advanced Digital NCI Protocol and Protocol Option Codes

Protocol		Definition
Code 3 4	Option 7 8 9	
Q B		Central Office Manual Cross-Connect Termination with No Subwiring Capability
	0 0 F	HDSL4, Technology Specific, Transmission System Per ANSI Standard T1.417
	0 0 G	G.shdsl, Technology Specific, Transmission System Per ANSI Standard T1.417
	0 0 S	2B1Q SDSL, Technology Specific, Transmission System Per ANSI Standard T1.417
	0 0 1	Spectrum Management Class 1, Per ANSI Standard T1.417
	0 0 2	Spectrum Management Class 2, Per ANSI Standard T1.417
	0 0 3	Spectrum Management Class 3, Per ANSI Standard T1.417
	0 0 4	Spectrum Management Class 4, Per ANSI Standard T1.417
	0 0 5	Spectrum Management Class 5, Per ANSI Standard T1.417
	0 0 6	Spectrum Management Class 6, Per ANSI Standard T1.417
	0 0 7	Spectrum Management Class 7, Per ANSI Standard T1.417
	0 0 8	Spectrum Management Class 8, Per ANSI Standard T1.417
	0 0 9	Spectrum Management Class 9, Per ANSI Standard T1.417
D U		End User Digital Access Interface
	0 0 F	HDSL4, Technology Specific, Transmission System Per ANSI Standard T1.417
	0 0 G	G.shdsl, Technology Specific, Transmission System Per ANSI Standard T1.417
	0 0 S	2B1Q SDSL, Technology Specific, Transmission System Per ANSI Standard T1.417
	0 0 1	Spectrum Management Class 1, Per ANSI Standard T1.417
	0 0 2	Spectrum Management Class 2, Per ANSI Standard T1.417
	0 0 3	Spectrum Management Class 3, Per ANSI Standard T1.417
	0 0 4	Spectrum Management Class 4, Per ANSI Standard T1.417
	0 0 5	Spectrum Management Class 5, Per ANSI Standard T1.417
	0 0 6	Spectrum Management Class 6, Per ANSI Standard T1.417
	0 0 7	Spectrum Management Class 7, Per ANSI Standard T1.417
	0 0 8	Spectrum Management Class 8, Per ANSI Standard T1.417
0 0 9	Spectrum Management Class 9, Per ANSI Standard T1.417	

Table 3-7: Advanced Digital Transport Loop NC/NCI Code Combinations

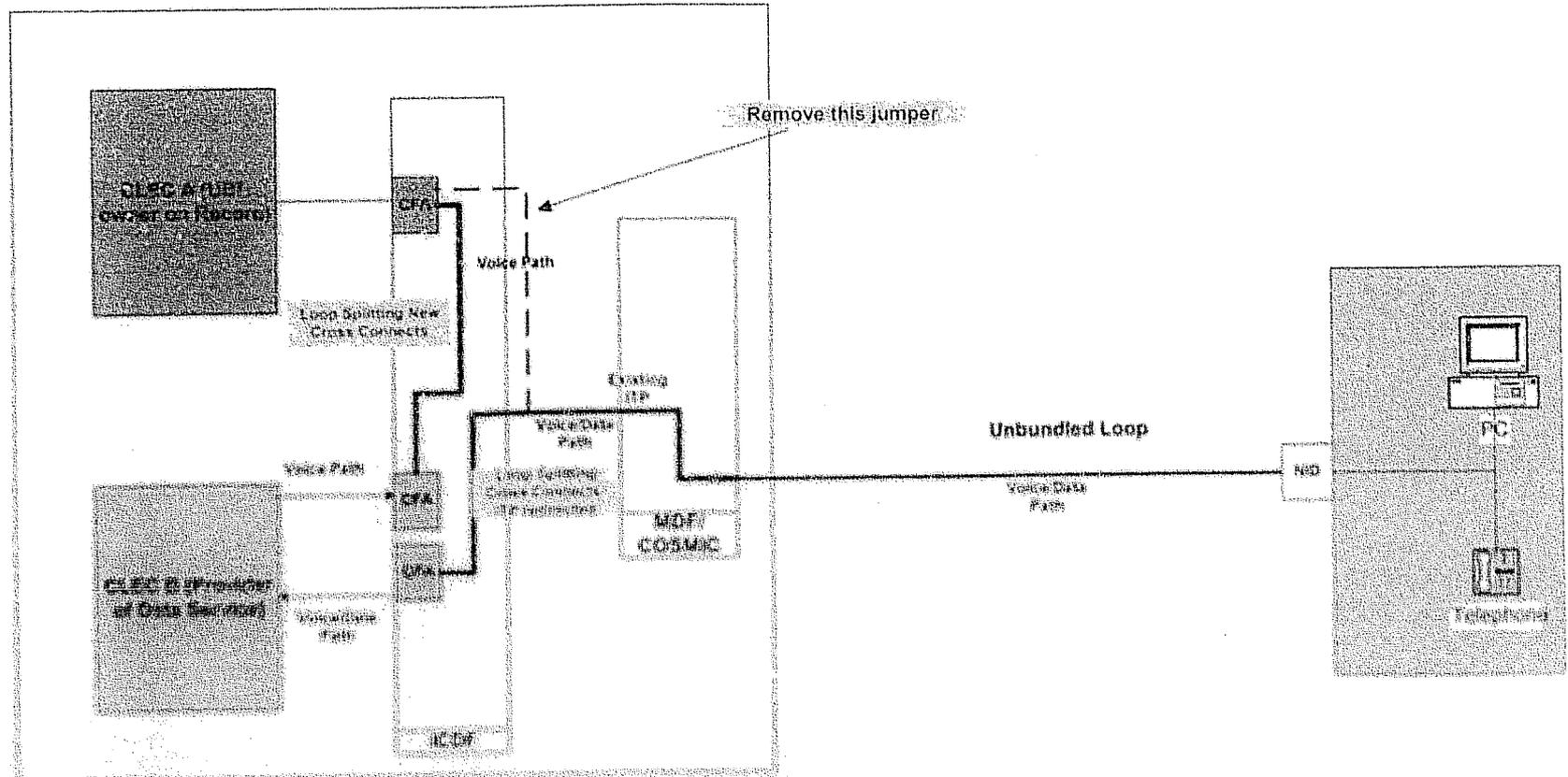
NC Code	NCI Code		DESCRIPTION
	Qwest CO-NI	End-User EU-NI	
ADVANCED DIGITAL TRANSPORT			
LX-N	02QB5.001	02DU5.001	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management Class 1
LX-N	02QB5.002	02DU5.002	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management Class 2
LX-N	02QB5.003	02DU5.003	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management Class 3
LX-N	02QB5.004	02DU5.004	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management Class 4
LX-N	02QB5.005	02DU5.005	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management Class 5
LX-N	02QB5.006	02DU5.006	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management Class 6
LX-N	02QB5.007	02DU5.007	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management Class 7
LX-N	02QB5.008	02DU5.008	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management Class 8
LX-N	02QB5.009	02DU5.009	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management Class 9
LX-N	02QB5.00F	02DU5.00F	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management HDSL4, Technology Specific, Transmission System Per ANSI Standard T1.417

LX-N	02QB5.00G	02DU5.00G	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management G.shd. Technology Specific. Transmission System Per ANSI Standard T1.417
LX-N	02QB5.00S	02DU5.00S	Advanced Digital Transport Loop. Signals at interfaces conform to ANSI Standard T1.417 Spectrum Management 2B1G DSL. Technology Specific. Transmission System Per ANSI Standard T1.417

CONTINUATION

[9]

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Loop Splitting

CLEC A is Owner of Record of Unbundled Loop (Voice provider) and CLEC B provides Data (POTS Splitter resides within Collocation Area)

CONTINUATION

[10]

UNE-P LINE SPLITTING SCENARIOS

	END USER CURRENTLY HAS:	END USER TRANSITIONS TO:	CLIENT ACTION	RISK TO QWEST	REMARKS
1.	Qwest voice service Qwest Megabit™ service (this is happening today)	UNE-P combination service without Qwest DSL service	Submit LSR for conversion to UNE-P combination service, specifying removal of Qwest DSL service	None	UNE-P combination service without Qwest DSL service is available
	Qwest voice service Qwest DSL service	UNE-P combination service with Qwest DSL service	Submit LSR for conversion to UNE-P combination service, specifying maintenance of Qwest DSL service	None	UNE-P combination service with Qwest DSL service is available
	UNE-P combination service	UNE-P combination service with Qwest DSL service	Submit LSR to add Qwest DSL service	None	UNE-P combination service with Qwest DSL service is available
	Qwest voice service Qwest DSL Host Volume Discount Program	UNE-P combination service without Qwest DSL service (Qwest DSL Host Volume Discount Program - providing Qwest DSL service to end-user on behalf of Volume Internet Service Provider) is not available with UNE-P combination service	Submit LSR for conversion to UNE-P combination service	UNE-P combination service without Qwest DSL service is available	UNE-P combination service without Qwest DSL service is available
2	Qwest voice service Qwest Megabit™ service	Qwest voice service DLEC data service	Submit LSR request for UNE-P Submit LSR for Line Splitting Provide FDDIS Data & follow procedure for line splitting	Qwest will work with DLEC to ensure successful completion of request Qwest makes completion request	UNE-P combination service without Qwest DSL service is available UNE-P combination service without Qwest DSL service is available
3.	Qwest voice service DLEC data service (Line Sharing) (this is happening today)	Qwest voice service only via UNE-P	Submit LSR request for UNE-P	Qwest will work with DLEC to ensure successful completion of request	UNE-P combination service without Qwest DSL service is available

4.	Qwest voice service DLEC data service (Line Sharing)	CLEC voice service DLEC data service (remains same as Line Sharing DLEC)	Submit LSR request for UNE-P Submit LSR request for Line Splitting Populate RPON field & follow procedures to order line sharing	Line Sharing billing removed from Summary Bill. DLEC receive loss report CLEC receive completion report	UNE-P conversion activity re-classifies vo service. Line Sharing is removed. Conversion order created. Line Sharing billing removed from Summar Bill of DLEC. POC the UNE-P order & add Line Splitting UNE-P & Line Splitting billing submitted to CLEC.
5.	Qwest voice service DLEC data service	CLEC voice service DLEC(different than existing data provider)	Submit LSR request for UNE-P Submit LSR for Line Splitting. Populate RPON field & follow procedures to order line sharing	DLEC receives loss report CLEC receives completion report	UNE-P conversion activity re-classifies vo service. Line Sharing is removed. Conversion order created with standard due date Line Sharing billing removed from Summar Bill of DLEC. UNE-P & Line Splitting billing submitted to CLEC.
6.	UNE-P	UNE-P with Line Splitting	Submit LSR for Line Splitting	CLEC receives completion report	Issue C order to establish Line Splitting
7.	UNE-P with Line Splitting	UNE-P only	Submit LSR to remove Line Splitting	CLEC receives loss report	Issue C order to remove Line Splitting
8.	UNE-P with Line Splitting	Complete disconnect	Submit LSR for complete disconnect of UNE-P	CLEC receives loss report	Issue D order to remove UNE-P and Line Splitting
9.	UNE-P with Line Splitting	UNE-P change Data provider	Submit LSR for conversion from one DATA provider to another	CLEC receives a loss and completion report	Issue C order to change data providers
10.	UNE-P with Line Splitting	T&F service	Submit T&F request for UNE-P	CLEC receives a loss report	Issue T&F order, line splitting is removed at T
11.	UNE-P with Line Splitting	Change of responsibility of UNE-P	Submit change of responsibility		Issue order to ownership of UNE-P (keeps Line Splitting)

LOOP SPLITTING SCENARIOS

Current	Transition To:	Customer of Record Will:	Qwest action:	
Established Unbundled Loop Fiber, LX-N, or LX-P	Loop Splitting	Submit LSR for Loop Splitting	Issue service order to add Loop Splitting on the Unbundled Loop	
Established Unbundled Loop Fiber, LX-N, or LX-P with Loop Splitting	Unbundled Loop	Submit LSR to remove Loop Splitting	Issue service order to remove Loop Splitting from Unbundled Loop	
Established Unbundled Loop Fiber, LX-N, or LX-P with Loop Splitting	Changing splitter	Submit LSR to change splitter	Issue service order to change splitter	
Established Unbundled Loop Fiber, LX-N, or LX-P with Loop Splitting	Change second provider	Submit LSR to change provider	Issue service order to change provider	
Established Unbundled Loop Fiber, LX-N, or LX-P with Loop Splitting	UNE-P with Line Splitting	New LSP will issue LSR for UNE-P POTS Second LSR for Line Splitting with RPON	Issue order for UNE-P POTS removing UBL and Loop splitting Issue order from second LSR adding Line Splitting to UNE-P POTS account	
Established Unbundled Loop Fiber, LX-N, or LX-P with Loop Splitting	Shared Loop (retail)	Data provider will: issue LSR for Shared Loop	Qwest retail will send LSR to ISC to Disconnect the UNBNDLD LOOP and issue a New Connect for the End User Qwest Wholesale will issue order to add Shared Loop on account	
Established Unbundled Loop Fiber, LX-N, or LX-P with Loop Splitting	Shared Distribution Loop (retail)	Data provider will: issue LSR for Shared Distribution Loop	Qwest retail will send LSR to ISC to Disconnect the UNBNDLD LOOP and issue a New Connect for the End User Qwest Wholesale will issue order to add Shared Distribution Loop on account	

BEFORE THE
PUBLIC UTILITIES COMMISSION
STATE OF SOUTH DAKOTA

IN THE MATTER OF THE INVESTIGATION) DOCKET TC 01-
INTO QWEST CORPORATION'S)
COMPLIANCE WITH SECTION 271 (C) OF THE)
TELECOMMUNICATIONS ACT OF 1996)

QWEST CORPORATION'S

AFFIDAVIT

OF

KAREN A. STEWART

CHECKLIST ITEM 5 – UNBUNDLED LOCAL TRANSPORT

OCTOBER 24, 2001

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AFFIDAVIT

OF

KAREN A. STEWART

Checklist Item 5 – Unbundled Local Transport

Karen A. Stewart states as follows:

My name is Karen A. Stewart. I am a Senior Staff Advocate, Policy and Law for Qwest Corporation ("Qwest"). My office is located at 421 SW Oak Street, Portland, Oregon. I base this affidavit on professional experience, personal knowledge, and information available to me in the normal course of my duties. Exhibit KAS-TR-1 contains my qualification summary.

I. EXECUTIVE SUMMARY

The purpose of this affidavit is to demonstrate that Qwest has complied with item number 5 of the checklist contained in Section 271(c)(2)(B) of the Telecommunications Act of 1996 ("the Act") concerning unbundled local transport. Specifically, Qwest provides access to dedicated and shared transport unbundled from other services.

The term "local transport" encompasses two categories, dedicated transport and shared transport. Dedicated transport refers to transmission facilities dedicated to a particular customer or carrier. Shared transport refers to transmission facilities shared by more than one carrier, including the incumbent local exchange carrier ("ILEC").

Qwest provides access to unbundled local transport in a nondiscriminatory manner. The only limitations Qwest imposes are those authorized by the Federal

1 Communications Commission ("FCC") and the South Dakota Public Utilities
2 Commission ("Commission").

3 In its SGAT, Qwest has undertaken a concrete and specific legal obligation to
4 provide competitive local exchange carriers ("CLECs") with access to unbundled
5 transport in substantially the same time and manner as Qwest provides those network
6 elements to itself, and in a manner that offers CLECs a meaningful opportunity to
7 compete.¹ Qwest has already installed unbundled local transport facilities for CLECs in
8 South Dakota.

9 **II. QWEST PROVIDES UNBUNDLED LOCAL TRANSPORT IN COMPLIANCE**
10 **WITH THE ACT AND THE FCC'S RULES**

11 Section 271(c)(2)(B)(v) of the Act requires a Bell Operating Company ("BOC") to
12 provide "local transport from the trunk side of a wireline local exchange carrier switch
13 unbundled from switching or other services."² BOCs are required to provide all
14 technically feasible capacity-related services, as well as higher capacities as they
15 evolve over time.³ The FCC requires that BOCs provide both dedicated and shared

1 SGAT § 9.1.2.

2 47 U.S.C. § 271(c)(2)(B)(v); *see also* 47 C.F.R. § 51.319(d) ("An incumbent LEC shall provide nondiscriminatory access . . . to interoffice transmission facilities on an unbundled basis to any requesting telecommunications carrier for the provision of a telecommunications service.").

3 Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, Third Report and Order and Fourth Further Notice of Proposed Rulemaking, CC Docket No. 96-98, FCC 99-238, 15 FCC Rcd 3696, ¶ 323 (rel. Nov. 5, 1999) ("UNE Remand Order").

1 transport to requesting carriers.⁴ Shared transport need only be offered to CLECs that
2 also request unbundled local switching,⁵ because it is not technically feasible to use
3 shared transport in conjunction with self-provisioned switching.⁶

4 Qwest has completed 271 workshops for transport in the states of Arizona,
5 Colorado, Nebraska, Oregon, and Washington, and in the multistate proceeding which
6 includes Idaho, Iowa, Montana, New Mexico, North Dakota, Utah, and Wyoming. The
7 workshop process spanned more than one year and involved detailed and rigorous
8 negotiations in which the parties reached consensus on all possible issues related to
9 unbundled transport. The revised South Dakota SGAT attached to this petition has
10 been updated to incorporate changes to the SGAT agreed to in these other 271
11 unbundled transport workshops.

12 Examples of changes Qwest has made to its unbundled transport offering as a
13 result of 271 workshops include:

⁴ Application of BellSouth Corporation, BellSouth Telecommunications, Inc., and BellSouth Long Distance, Inc., for Provision of In-Region, InterLATA Services in Louisiana, Memorandum Opinion and Order, CC Docket No. 98-121, FCC No. 98-271, 13 FCC Rcd 20599 ¶ 201 (rel. Oct. 13, 1998) ("BellSouth Louisiana II Order"); see also Joint Application by SBC Communications, Inc., Southwestern Bell Telephone Co., and Southwestern Bell Communications Services, Inc. d/b/a Southwestern Bell Long Distance for Provision of In-Region, InterLATA Services in Kansas and Oklahoma, Memorandum Opinion and Order, CC Docket No. 00-217, FCC 01-29, 16 FCC Rcd 6237, ¶ 331 (rel. Jan. 22, 2001) ("SBC Kansas Oklahoma Order").

⁵ UNE Remand Order, fn. 127.

⁶ UNE Remand Order, ¶ 372.

1 **Requiring Multiplexers for Access to Transport** - A CLEC expressed concern
2 about whether the SGAT Section 9.6.1.2 reference to an unbundled multiplexer as a
3 stand-alone element meant that CLECs would have to acquire it to get transport as an
4 unbundled network element ("UNE"). Qwest changed the section to clarify that such
5 multiplexers were not required, but were available at the option of CLECs.

6 **Cross Connecting UDIT and E-UDIT** - A CLEC objected to the requirement of
7 SGAT 9.6.2.1 that CLECs pay for the costs of cross connecting UDIT and E-UDIT when
8 they are in fact a single element. Qwest has eliminated any cross connect charges
9 between UDIT and E-UDIT, thus addressing the CLEC's concerns.

10 **Rates for OC-48 unbundled transport** – CLECs requested set rates, versus,
11 IDB rates, for OC-48 level unbundled transport. Qwest agreed and Exhibit A to the
12 SGAT contains the rates in South Dakota.

13 Qwest's technical publications were also reviewed in the 271 workshops. Qwest
14 technical specifications for the revised unbundled transport including interfaces and
15 parameters are described in Technical Publication 77389. Qwest technical publications
16 have recently been made available to CLECs on the following URL:
17 <http://www.uswest.com/techpub/>.⁷

18 In addition, the Wholesale Product Catalog ("PCAT") provides CLECs with
19 additional product information. CLECs can access the PCAT at URL:
20 <http://www.qwest.com/wholesale/pcat/>. These are just a few examples of the

1 consensus reached by Qwest and CLECs through the workshop process. I believe that
2 through the long workshop process, the parties have reached consensus on all
3 transport issues for which consensus is possible.

4 **A. Dedicated Transport**

5 Qwest has a legal obligation to provide, and is currently providing, unbundled
6 dedicated transport to CLECs in South Dakota. Qwest's dedicated transport offerings
7 provide CLECs with a single transmission path between Qwest end offices, serving wire
8 centers, or tandem switches in the same LATA and state; they also include a
9 bandwidth-specific transmission path between the Qwest serving wire center and the
10 CLEC's wire center or an interexchange carrier's point of presence located within the
11 same Qwest serving wire center area.⁸ Qwest offers dedicated transport in DS0 through
12 OC-192 bandwidths, as well as such higher capacities that evolve over time.⁹

13 An unbundled multiplexer is offered as an optional feature associated with
14 dedicated transport and (unbundled loops).¹⁰ SONET add/drop multiplexing is available
15 on an individual case basis where facilities are available and capacity exists.¹¹

16 If a CLEC orders a UNE combination that includes dedicated transport facilities,
17 Qwest will perform requested and necessary cross connections between UNEs in the
18 same manner that it would perform such cross connections for its own end user

8 SGAT § 9.6.1.1.

9 SGAT § 9.6.1.1.

10 SGAT § 9.6.1.2.

11 SGAT § 9.6.1.2.

1 customers.¹² When transport is ordered separately (i.e., not as part of a UNE
2 combination), the CLEC is responsible for performing cross connections at its
3 collocation or other mutually determined demarcation point, but such cross connections
4 are not required when a CLEC orders a continuous dedicated transport element from
5 one point to another.¹³ To the extent that collocation is required for a CLEC to take
6 advantage of dedicated transport facilities, the CLEC may utilize any form of
7 collocation.¹⁴

8 As of August 31, 2001, Qwest had provided 3 unbundled dedicated transport
9 facilities for 2 CLECs in South Dakota.¹⁵

10 In the Qwest SGAT, the unbundled transport rate element for transport between
11 Qwest Wire Centers is called Unbundled Dedicated Interoffice Transport ("UDIT").
12 UDIT is a distance-sensitive, flat-rated bandwidth-specific interoffice transmission path
13 designed to a digital cross-connect system in each Qwest wire center.

14 For unbundled transport between a Qwest wire center and CLEC wire center the
15 rate element is called Extended Unbundled Dedicated Interoffice Transport ("E-UDIT").
16 E-UDIT, like an entrance facility, provides a CLEC with a bandwidth specific
17 transmission path between the Qwest serving wire center to CLEC's wire center or an
18 IXC's point of presence located within the same Qwest serving wire center area.

¹² SGAT § 9.6.2.1.

¹³ SGAT § 9.6.2.1.

¹⁴ SGAT § 9.6.2.3.

¹⁵ Official Qwest Wholesale Volumes Report, August 31, 2001.

1 E-UDIT is a flat-rated, bandwidth-specific interoffice transmission path. Exhibit KAS-TR-
2 2 provides a diagram of UDIT and E-UDIT. UDIT's two components are priced
3 differently to reflect the way costs are incurred.

4 By delineating the unbundled dedicated transport between the Qwest serving
5 wire center and the CLEC central office as "E-UDIT", Qwest's intent was to clearly
6 identify that this specific segment of dedicated transport has historically been recovered
7 in cost models and resultant rate schedules as a non-distance sensitive rate element.
8 All other "interoffice" transport has typically been "cost modeled" and rated on a fixed
9 and per mile basis.

10 For example, other transport services have this segment of "transport" as a non-
11 distance sensitive rate component, e.g., in Switched Access Services or Local
12 Interconnection Trunks it is an "entrance facility" and in retail private line tariffs it is
13 typically called a "channel termination".

14 This is a standard industry practice on how to rate dedicated transport. The FCC
15 suggested use of existing rates for interstate dedicated switched transport as a default
16 proxy for unbundled dedicated transport.¹⁶ The FCC actually gave an example of the
17 price structure difference between the equivalent of UDIT and E-UDIT:

18 Interstate access rates for dedicated transport vary by region, type of
19 circuit, mileage, and other factors. For example, BellSouth's entrance
20 facility charge, for transport from an IXC's point of presence to a BellSouth

¹⁶ Implementation of the Local Competition Provisions of the Telecommunications Act of 1996; Interconnection between Local Exchange Carriers and Commercial Mobile Radio Service Providers, First Report and Order, CC Docket Nos. 96-228 and 95-185, FCC 96-325, 11 FCC Rcd 15499, ¶ 821 (rel. Aug. 8, 1996) ("Local Competition Order").

1 serving wire center, is \$134 monthly per DS1 circuit (\$5.58 per derived
2 voice grade circuit) and \$2,100 monthly per DS3 circuit (\$3.13 per derived
3 voice grade circuit). Dedicated transport for 10 miles of interoffice
4 transmission between a serving wire center and an end office is \$325
5 monthly per DS1 circuit (\$13.54 per derived voice grade circuit) and
6 \$2,950 monthly per DS3 circuit (\$4.39 per derived voice grade circuit).
7 Installation, multiplexing and other transport-related charges may also
8 apply.¹⁷

9 Moreover, SBC's Texas 271 Agreement provides for a price structure similar to

10 Qwest's distinction between UDIT and E-UDIT:

11 The price for dedicated transport is found in Appendix Pricing - UNE
12 Schedule of Prices labeled "Interoffice Transport." Entrance facility rates
13 are found in Appendix Pricing - UNE Schedule of Prices, labeled as
14 "Dedicated Transport, Entrance Facilities."¹⁸

15 In summary, Qwest is offering dedicated unbundled transport under rates terms
16 and conditions that are in compliance with the Act and the FCC's rules.

17 **B. Shared Transport.**

18 Qwest provides shared transport transmission facilities between end office
19 switches, between end office and tandem switches, and between tandem switches in its
20 network, as required by the FCC.¹⁹ Qwest provides shared transport in a way that
21 enables the traffic of a CLEC to be carried on the same transport facilities that Qwest
22 uses for its own traffic.²⁰

¹⁷ Local Competition Order, fn. 1948.

¹⁸ T2A, Attachment UNE-TX, Section 8.2.1.

¹⁹ SGAT § 9.8.2.1; see also UNE Remand Order, ¶ 370; BellSouth Louisiana II
Order, ¶ 204.

²⁰ SGAT § 9.8.2.3(a).

1 ILECs are required to provide unbundled shared transport only where they also
2 provide unbundled switching²¹ (as the FCC noted, it is not technically feasible for a
3 competitor to use shared transport with self-provisioned switching²²). In compliance with
4 this requirement, Qwest offers unbundled shared transport in conjunction with
5 unbundled local switch ports and as part of its Unbundled Network Element-Platform
6 ("UNE-P") offering.²³ Shared transport is automatically provisioned when a CLEC
7 orders switching unless the CLEC requests otherwise.

8 Qwest permits CLECs that purchase unbundled shared transport and unbundled
9 switching to use the same routing table that is resident in Qwest's switch.²⁴ A CLEC has
10 the option, however, of using custom routing to direct its end user's operator services
11 and directory assistance calls in a different manner than Qwest routes its own operator
12 services and directory assistance calls.²⁵ For this application, the CLEC provides Qwest
13 the information necessary for Qwest to create a custom routing table that is
14 programmed within the Qwest central office switch.

21 UNE Remand Order, ¶ 369.

22 UNE Remand Order, ¶ 372.

23 SGAT § 9.8.2.1.

24 SGAT § 9.8.2.3(c).

25 SGAT § 9.8.2.2.

1 Qwest permits CLECs to use shared transport as an unbundled element to carry
2 originating access traffic from, and terminating to, customers to whom the CLECs
3 provide local exchange service.²⁶

4 **C. Access to Digital Cross-Connect Facilities**

5 FCC rules require that an ILEC permit, to the extent technically feasible, a
6 requesting CLEC to obtain the functionality provided by the ILEC's digital cross-connect
7 systems in the same manner that the ILEC provides such functionality to interexchange
8 carriers.²⁷ To comply with this requirement, Qwest offers CLECs a capability called
9 Unbundled Customer Controlled Rearrangement Element ("UCCRE").²⁸ UCCRE gives
10 CLECs access to Qwest's digital cross-connect system and provides the means by
11 which a CLEC can control the configuration of unbundled network elements or ancillary
12 services on a near real-time basis. UCCRE is available in Qwest wire centers that
13 contain a digital cross-connect system that is UCCRE compatible.²⁹ Qwest has received
14 no requests for UCCRE in South Dakota, but the Bench Test discussed below also
15 tested and confirmed Qwest's ability to provide UCCRE upon request.

²⁶ SGAT § 9.8.2.3(d).

²⁷ 47 C.F.R. § 51.319(d)(2)(iv).

²⁸ SGAT § 9.9.

²⁹ SGAT § 9.9.1.

1 **D. Unbundled Transport Provisioning and Maintenance**

2 Prior to receiving commercial volumes for transport, Qwest conducted a "Bench
3 Test," which demonstrated that Qwest could, upon request, provision and maintain
4 unbundled transport in a timely and nondiscriminatory manner.

5 Under the Bench Test, the provisioning of unbundled transport, as well as the
6 repair, maintenance, and billing related to the transport element, were tested. In the
7 test, actual "CLEC" unbundled network element orders were successfully placed and
8 fulfilled. A local service request ("LSR") or access service request ("ASR") was
9 completed and sent to the Service Delivery Coordinator, and orders were then sent
10 through the entire provisioning process, using all of the appropriate Operational Support
11 Systems ("OSS"). Unbundled transport was successfully provisioned, and billing was
12 established.

13 The Bench Test also included the transmission of "test calls" over the unbundled
14 elements that were provisioned. The test calls generated local minutes of use that were
15 captured by AMA equipment, allowing a summary bill to be created. After provisioning
16 was completed, trouble reports were processed to test and validate Qwest processes
17 and procedures for the repair/maintenance of these services. A complete description of
18 the 1999 Bench Test methodology and the results of the test are contained in
19 Exhibit KAS-TR-3.

20 More recently, Qwest has demonstrated its ability to provide shared transport
21 through its success in provisioning UNE-P, a standard UNE combination that includes

1 shared transport and unbundled switching. Please see the affidavit of Ms. Lori Simpson
2 for detailed information regarding Qwest's provisioning of UNE-P in South Dakota.

3 Qwest is providing all components of unbundled local transport on a
4 nondiscriminatory basis. Shared transport is provided to CLECs via the same transport
5 facilities Qwest uses for its own calls (in every instance except where the CLEC
6 chooses to route operator services and directory assistance calls differently), so there is
7 no discrimination in access to these facilities.

8 Qwest will provision unbundled dedicated transport in South Dakota utilizing a
9 defined order and provisioning flow. Exhibit KAS-TR-4 contains a flowchart and task list
10 that delineates the tasks performed by Qwest personnel in order to provide unbundled
11 transport. This exhibit also includes a matrix that describes each of the work tasks
12 identified in the flow chart. Qwest will follow these steps each time unbundled transport
13 is ordered in South Dakota.

14 The unbundled switching process and provisioning flows contained in the
15 testimony of Lori Simpson are also used for unbundled shared transport. There is no
16 need for a separate process flow for shared transport since shared transport is
17 automatically provisioned with unbundled switching unless the CLEC specifically selects
18 otherwise.

19 Qwest maintains unbundled transport in South Dakota utilizing defined
20 maintenance flows. Exhibit KAS-TR-5 contains a flowchart and task list that delineates
21 the tasks performed by Qwest personnel in order to maintain unbundled transport and a
22 matrix that describes all of the work identified in the flow chart. In summary, Qwest and

1 CLEC will perform cooperative testing and trouble isolation to identify where trouble
2 points exist. If required, CLEC cross-connections will be repaired by the CLEC, and
3 Qwest cross connections will be repaired by Qwest.³⁰ Maintenance and repair of shared
4 transport facilities are the sole responsibility of Qwest³¹

5 **E. Performance Measurements for Unbundled Transport**

6 Currently, the parties in the ROC proceeding have agreed that Qwest should
7 track 10 different performance measurements for dedicated unbundled transport.
8 These measurements concern either the installation/provisioning of DS1 and above
9 DS1 UDITs or the repair/maintenance of these facilities. The agreed-upon
10 measurements for unbundled transport are listed in the table below. The definitions for
11 these performance indicators can be found in the affidavit of Mr. Michael Williams.

Indicator Number	Checklist Item 5 Performance Indicator
OP-3	Installation Commitments Met
OP-4	Installation Interval
OP-5	New Service Installation Without Trouble Reports for 30 Days After Installation
OP-6	Delayed Days
OP-15	Interval for Pending Orders Delayed past Due Date
MR-5	Out of Service Cleared within 4 Hours (designed repair process)
MR-6	Mean Time to Restore
MR-7	Repair Repeat Report Rate
MR-8	Trouble Rate
MR-10	Customer Related Trouble Reports

12

³⁰ SGAT § 9.6.5.1.1.

³¹ SGAT § 9.8.5.1.

1 On September 25, 2001, the Liberty Consulting Group, an independent third
2 party retained as part of the ROC OSS Test, completed its audit of Qwest's
3 performance measures (PIDs) and concluded that "the audited performance measures
4 accurately and reliably report actual Qwest performance."³² Qwest has offered to have
5 Liberty verify its audit by conducting data reconciliation with any CLEC that believes
6 Qwest's performance data is inaccurate. No party has questioned the authenticity or
7 accuracy of the performance data specific to unbundled transport.

8 As of August 31, 2001, Qwest had provisioned 3 UDLT orders in South Dakota.
9 This minimal volume does not allow for statistically significant performance result
10 comparisons.

11 III. SUMMARY AND CONCLUSION

12 Qwest satisfies the unbundled transport requirements of sections 271(b)(2)(B)(i)
13 and 271(c)(2)(B)(v). Qwest is providing unbundled local transport, including unbundled
14 dedicated and shared transport, in a nondiscriminatory manner to CLECs in South
15 Dakota. Qwest's compliance with checklist item 5 provides CLECs a meaningful
16 opportunity to compete in South Dakota. This Commission should find that Qwest has
17 satisfied checklist item 5.

³² See Liberty Consulting Final Performance Measures Audit Report at 2-3 which is
attached to the Affidavit of Michael G. Williams regarding Performance Measures
as Exhibit MGW-PERF-2.

BEFORE THE
PUBLIC UTILITIES COMMISSION
STATE OF SOUTH DAKOTA

IN THE MATTER OF THE INVESTIGATION
INTO QWEST CORPORATION'S
COMPLIANCE WITH SECTION 271 (C) OF THE
TELECOMMUNICATIONS ACT OF 1996

DOCKET TC91

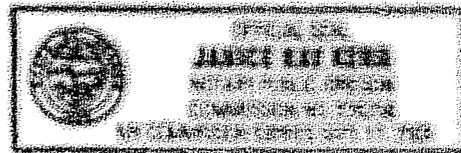
Being first duly sworn upon oath, I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct to the best of my knowledge, information, and belief.

Executed on this 11th day of October, 2001.

Karen A. Stewart

Karen A. Stewart

STATE OF Oregon



COUNTY OF Multnomah

Subscribed and sworn to before me this 11 day of October, 2001.

Jamie Kay Kess
Notary Public

BEFORE THE
PUBLIC UTILITIES COMMISSION
STATE OF SOUTH DAKOTA

IN THE MATTER OF THE INVESTIGATION
INTO QWEST CORPORATION'S
COMPLIANCE WITH SECTION 271 (C) OF THE
TELECOMMUNICATIONS ACT OF 1996

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QWEST CORPORATION'S
EXHIBITS TO THE AFFIDAVIT
OF

KAREN A. STEWART

CHECKLIST ITEM 5 - UNBUNDLED LOCAL TRANSPORT

OCTOBER 24, 2001

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EXHIBIT

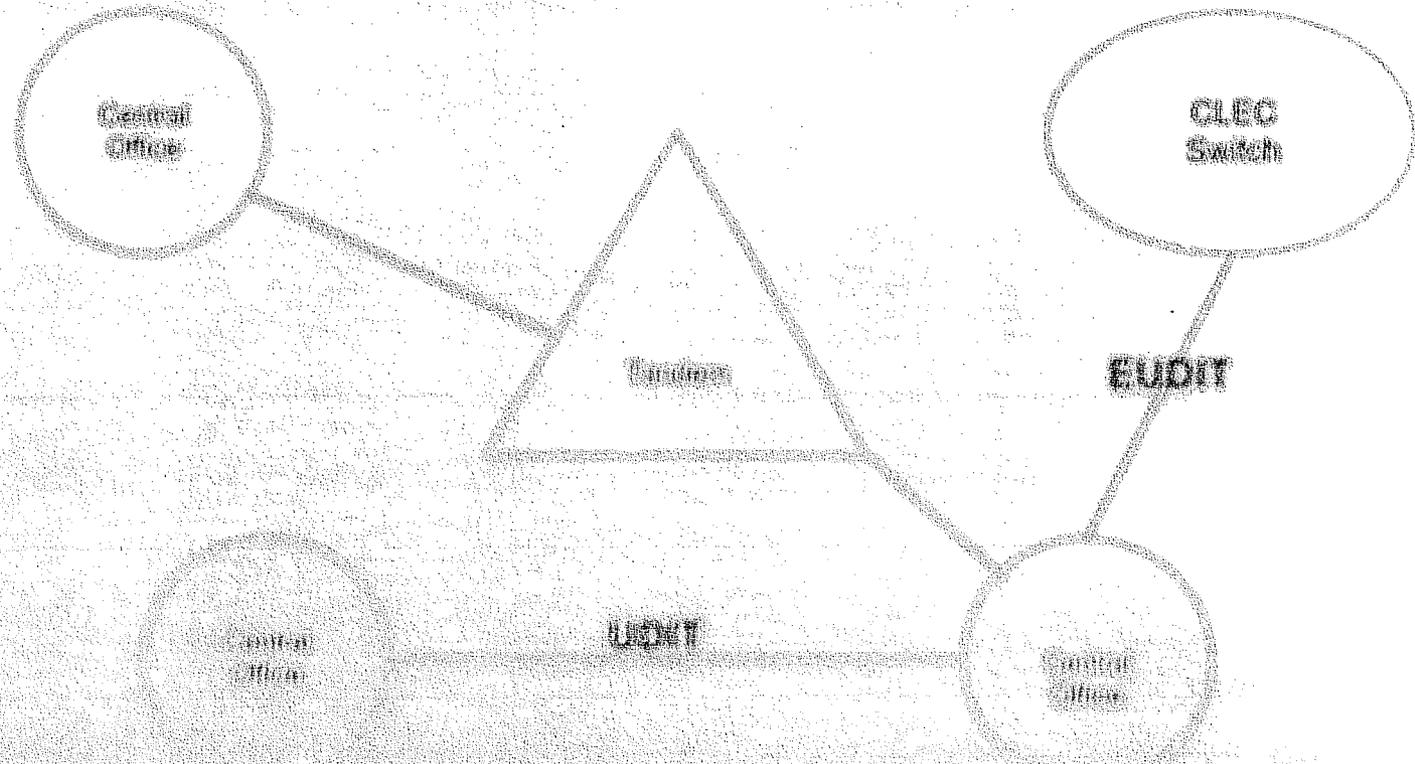
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CONTINUATION

[11]

Scan ~ _____ ~ # Pages []

Unbundled Dedicated Interoffice Transport (UDIT) Diagram



CONTINUATION

[12]

1999 Bench Test of Unbundled Elements

VERSION 1.0
JULY 21, 1999

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SUBJECT:	1999 BENCH TEST OF UNBUNDLED ELEMENTS
STATES INVOLVED:	ARIZONA & NEBRASKA
AUTHOR:	
AUTHOR TELEPHONE NUMBER:	
ISSUE	ONE

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1.0 GENERAL

1.01 In May and June of 1999, a bench test to support U S West's Section 271 filings was completed in Phoenix, Arizona and Omaha, Nebraska. The bench test was undertaken due to a lack of actual Co-Provider activity in the areas of unbundled switching and transport.

This test demonstrates and supports:

- ❖ U S West's advocacy on unbundled elements.
- ❖ That U S West processes and procedures allow for timely provisioning and maintenance of the following Section 271 Checklist items:
 - ❖ Number #5 (unbundled transport).
 - ❖ Number #6 (unbundled switching)
 - ❖ Including the feature Operator Services & Directory Assistance (OS/DA) call completion and branding
- ❖ Re-enforce results from the bench test conducted in a Lab-controlled test environment in June, 1998.

The purpose of this document is to provide test results and an assessment of our unbundled products, processes and systems.

1.02 Document issue number and date are found in the footer information of this document.

1.03 For information about this document, contact Jerry Shypulski at 612-798-2419.

2.0 DEFINITION AND SCOPE OF THE BENCH TEST

2.01 UNBUNDLED SWITCHING:

- ❖ Unbundled analog line ports were provisioned¹ and physically installed in the Phoenix, Arizona North East 5E switch.
- ❖ Unbundled analog line ports were provisioned¹ in the Omaha, Nebraska 34th Street OMS 100 switch.

See Figure one for diagram of Unbundled Element infrastructure.

The unbundled analog line ports required the establishment and deployment of a unique measured Line Class Code (LCC) with Shared Transport, blockage of 900 calls and Custom Routing to a dedicated trunk group for OS/DA traffic.

2.01.01 A dedicated combined OS/DA trunk group with branding was established between the Phoenix North East 5E switch and the Toll Operator Switch (TOPS) switch in the Phoenix Main central office.

This was accomplished using the following combination of unbundled elements:

- ❖ Unbundled switching DS1 trunk port and unbundled trunk group members
- ❖ Unbundled interoffice transport.

¹ Provisioned is defined as Service Order creation from a "simulated" Co-Provider's Access Service Request (ASR) or Local Service Request (LSR) and processed down through all the Operational Support Systems (OSS).

The unbundled elements were terminated on designated Interconnection Distributing Frames (ICDF).

See Figure two for diagram of OS/DA infrastructure.

2.02 UNBUNDLED TRANSPORT

Unbundled interoffice transport (UDIT) orders were provisioned and physically installed between the Phoenix, Arizona North East central office and the Phoenix, Arizona Main central office. These were at the service levels of OC-n, DS3 and DS1. Orders were also provisioned and installed to test Unbundled Customer Control Reconfiguration Element (UCCRE).

Unbundled UDIT orders were provisioned between the Omaha 54th St central office and the Omaha Main central office.

2.03 The unbundled analog line ports were wired to a telephone within the central office in lieu of an unbundled loop to allow test calls. The test calls involved both local originating and terminating and OS/DA traffic.

2.04 Test calls were conducted which generated local minutes of use which were captured by Automatic Message Accounting (AMA).

Orders were completed and a summary bill created.

2.05 Test was completed by June 18, 1999. The billing results out of Customer Records Information System (CRIS) and Integrated Access Billing System (IABS) were available on the next billing cycle.

2.06 After provisioning was complete, trouble reports were processed to validate U S West's process and procedures for Repair/Maintenance.

Figure Two

4.0 Timeline

4.01 THE TIMELINE DISPLAYED IN APPENDIX A REFLECTS THE RECOMMENDED SEQUENTIAL FLOW OF ORDER ACTIVITY USED FOR BOTH THE ARIZONA AND NEBRASKA TRIALS. IT ALSO CONTAINS A TABLE TO REFLECT THE CORRESPONDING PROCESS FLOW TASKS (WHICH ARE FOUND IN CHAPTER 5) AND THE RESULTS FOR EACH OF THE SEQUENTIAL TASKS.

THE SEQUENCE USED WAS THE DOCUMENTED PROCESS TO BE FOLLOWED BY THE CO-PROVIDER. THE TEAM CONDUCTED A PRE-PLANNING MEETING WITH THE

“SIMULATED” CO-PROVIDER AND PROCESSED ALL STANDARD CUSTOMER AND CUSTOM ROUTING QUESTIONNAIRES.

4.02 The below table summarizes the individual unbundled element products. The Application (APP) date column indicates the date that the team started the Business Integrated Test (BIT). The Due Date and Completion columns reflects the comparison between order due date and actual test completion.

ARIZONA (BETA)

<u>Product</u>	<u>APP/BIT Test Call</u>	<u>Due Date²</u>	<u>Completion</u>
UDIT	4/14/99	4/21/99	4/21/99
UBSW Trk Port	4/16/99	4/20/99	4/20/99
UBSW Trk Grp	4/16/99	4/20/99	4/20/99
UBSW Line Port	4/26/99	5/3/99	5/3/99
Test Call Plan	5/5/99	5/5/99	5/5/99

<u>Product</u>	<u>APP/BIT Test Call</u>	<u>Due Date²</u>	<u>Completed</u>
CR established	4/12/99	4/13/99	4/13/99
CR deployed	4/14/99	4/16/99	4/16/99

ARIZONA (RE-TEST)

<u>Product</u>	<u>APP/BIT Test Call</u>	<u>Due Date²</u>	<u>Completion</u>
UDIT	6/2/99	6/7/99	6/7/99
UBSW Trk Port	6/2/99	6/7/99	6/7/99
UBSW Trk Grp	6/2/99	6/7/99	6/7/99
UBSW Line Port	6/2/99	6/4/99	6/4/99
Test Call Plan	6/7/99	6/15/99	6/15/99

NEBRASKA (RE-TEST)

<u>Product</u>	<u>APP/BIT Test Call</u>	<u>Due Date</u>	<u>Completion</u>
UDIT	6/14/99	6/15/99	6/15/99
UBSW Trk Port	6/14/99	6/15/99	6/15/99
UBSW Trk Grp	6/14/99	6/15/99	6/15/99
UBSW Line Port	6/14/99	6/15/99	6/15/99

² Represents the standard provisioning intervals for these unbundled products.

³ Projected Custom Routing and Line Class Code establishment deployment interval requirements were based on the bench test completion date and the due dates of the orders. Normal procedures include establishing an interval through the Individual Case Basis (ICB) process, which may extend the interval required for these items. The trial LCC was deployed once and used for all subsequent testing.

⁴ Shortened intervals were used for the finalized tests to ensure the bench test results would be available for the pending Arizona and Nebraska Section 271 proceedings.

5.0 BENCH TEST BUSINESS INTEGRATION TEST (BIT) SUMMARY:

5.01 Testing took place in the Central and Eastern Region OSS Production environment. Complete detailed test scenarios, results and associated verifying OSS system screen prints can be found in the Business Integration Test (BIT) Bench Test binder.

Sub-chapter numbering will correspond to the individual tasks contained within the documented unbundled element process flows.

Service Order Processor (SOP) is represented specifically as:
Central Region- Service Order Processing and Distribution (SOPAD)
Eastern Region- Service Order Local Administration and Request (SOLAR)

5.02 UNBUNDLED DEDICATED INTEROFFICE TRANSPORT (UDIT)

U S West's process and procedures for the provisioning of UDIT contain thirteen (13) process tasks. Each task was tested. The provisioning flow is described in the following table.

5.02.1 **Task 1: Co-Provider submits Access Service Request (ASR) form submitted through FAX or FAX.**

UDIT order processing was initiated with a service order request received by ERACP via the Access Service Request (ASR) process. The orders passed the all system edit checks and proceeded to UDIT and into the Service Order Processor (SOPAD for Central Region and SOLAR for Eastern Region).

5.02.2 **Task 2: Service Delivery Coordinator (SDC) receives ASR & initiates ASR process.**

The only process issue encountered was the configuration of the Access Customer Identification Location (ACTL) code. The ACTL is a 11 character Common Language Location Identification (CLL) code. The Beta UDIT order was processed with an 11 character ACTL which included a "F" in the 9th character. The "F" specifies the ICDF frame where the UDIT will terminate. The problem occurs when Trunks Integrated Record Keeping System (TIRKS) takes the ACTL and automatically looks for a planning design to use in the design process. TIRKS is "hard-coded" to default to an 8 character CLL when it encounters a "F" in that specified 9th position. The 8 character-based planning design only processed the design to the USW frames and not all the way to the ICDF frames where the UDIT would be terminated. The result is the design required a manual intervention to complete.

The on-going solution is to designate unique ACTLs of 11 characters without the "F" character for any Co-Provider where their only "presence" will be ICDF Collocation. This already occurs where the Co-Provider has a Physical, Virtual or Cageless Collocations.

Method and Procedures were updated and subsequent testing using an acceptable "sanitized" ACTL proved successful.

5.02.3 **Task 3: SDC validates ASR request.**

The ASR was validated and all required entries were present.

5.02.4 **Task 4: SDC obtains Billing Account Number (BAN)**

We obtained 303L04 & 303I08 for use as our BAN number for our "sanitized" Co-Provider account.

5.02.5 **Task 5: SDC issues order to Service Order Processor (SOP) and issues Firm Order Commitment (FOC).**

The Beta UDIT order encountered an error for missing Class of Service in SOFAD. The Class of Service was missing due to the fact this was the first UDIT order processed in the central region. The new UDIT Class of Service of "UTLIN" was added to the appropriate SOFAD table. This order was successfully redistributed and went to Service Order Administration Control (SOAC). Subsequent UDIT orders processed error-free.

In SOAC, a Request for Manual Assistance (RMA) was received on the Beta UDIT order. This was due to a missing Universal Service Order Code (USOC). The new UDIT USOC "TUGSX" was added to the SOAC table. The USOC "TUGSX" information was only missing in the Western and Central Region where no actual UDIT orders had been previously processed. In the Eastern Region the USOC was contained in the appropriate tables. All subsequent tests were successful.

Before the order was able to proceed successfully to TIRKS, another intervention was needed to change the setup of the new UDIT class of service, in the Central Region, from "non-access service/ABS billed" to "access service/IABS billed". The order then proceeded to TIRKS where SOAC then through messages 1, 2, and 3 were processed successfully.

5.02.6 **Task 6: Designer designs UDIT and sends Design Layout Record (DLR) to Co-Provider.**

The orders processed successfully through TIRKS to Work Flow Administration (WFA). The appropriate output documents were:

- ❖ Design Layout Records (DLRs) which was sent to the "sanitized" Co-Provider.
- ❖ Work Order Record Document (WORD) document which was issued to the Central Office and Design Center implementation personnel.

5.02.7 **Task 7: Implementor contacts Central Office Resource Allocation Center (CORAC) to load appropriate central office technicians.**

This task was successfully completed and error-free.

5.02.8 **Task 8: CORAC loads appropriate Central Office Personnel**

This task was successfully completed and error-free.

- 5.02.9 **Task 9: Central Office Technician (COT) performs work steps**
This task was successfully completed and error-free.

- 5.02.10 **Task 10: Implementor tests circuit**
This task was successfully completed and error-free.

- 5.02.11 **Task 11: Order completed**
This task was successfully completed and error-free.

- 5.02.12 **Task 12: Co-Provider notified**
This task was successfully completed and error-free. The "unbundled" Co-Provider accepted service.

- 5.02.13 **Task 13: Billing established**
IABS billing results indicated non-recurring and recurring billing information. Also the customer bill reflected the individual unbundled elements ordered and the rates elements entered for the test.

5.03 **UNBUNDLED SWITCHING MESSAGE TRUNK PORT AND MESSAGE TRUNK GROUP AND MEMBERS**

U S West process and procedures for the provisioning of Unbundled Switch Trunk Port orders contains thirteen (13) process tasks. Each task was tested. The provisioning flow is described in the following table.

- 5.03.1 **Task 1: Co-Provider requests unbundled DSL Trunk Service (Includes DSL Trunk Port and Associated Trunk Group/ Members.**
The Unbundled Switch Trunk Port and Group/Member orders were processed through SELECT through. There were some typographic errors, which were caught by SELECT, on the first order. This allowed

for immediate correction and the orders re-released. Subsequent Trunk Port and Group Member orders passed all formatting issues.

- 5.03.2 **Task 2: Service Delivery Coordinator (SDC) receives/verifies ASK and/or builds trunk group request form.**

This task was successfully completed and the trunk request form created.

- 5.03.3 **Task 3: SDC logs into TIRKS Generic Order Control (GOC).**

A process issue was encountered on the Beta orders when a USOC "TMECS" was present on the order and the Loop Facilities Assignment and Control Center (LFACTC) system incorrectly assigned a loop loop. "TMECS" is a line-assignable USOC that tells LFACTC to assign a line-owned loop. TMECS should not have been on the orders and the Field Identifier (FID) "CTC" was substituted in its place. A check was made of the methods and the use of FID "CTC" was already documented.

The same issue from paragraph 5.02.2 around the ACTL information on WTRF, also surfaced on the Beta orders. The team used the "simulated" ACTL with an IT in the "P" status and worked the issue. There was an SOAC error with Message 1 on the Trunk Port order (related to allocation group assigned which occurs whenever a new ACTL is used for the first time). The Message 1 error was fixed and the order continued processing.

During the Trunk Group/Member Beta order release, it was determined that the traffic modifier on the circuit ID was not correct. The traffic modifier should be YY. The industry standard YY traffic modifier identifies the trunk group as an unbundled element. Also the YY should be added to the EXACT tables because these were the first unbundled trunk group member orders processed in "production" Central Region.

- 5.03.4 **Task 4: Designer creates trunk request and Work Authorization forms.**

The next orders to be processed were for the associated Unbundled Network Trunk Group Members. A key point to the overall order process is the timing for releasing these trunk group member orders. The order will error out if it starts to go through the GOC systems before the trunk port order is in a pending "P" status (meaning design-processed through TIRKS).

- 5.03.5 **Task 5: Designer assigns/designs trunk port and trunk group members.**

The Trunk Group/Member orders were released and were successfully loaded into TIRKS and appeared on the TIRKS list for processing. The orders moved successfully through TIRKS, a WTRF was created and processed into WFA.

An issue arose concerning which internal design group would be the designer or writer for the Unbundled Design Center. The Beta test orders went to two different groups, the trunk port orders went to the Unbundled Network Element design team in Des Moines and the trunk group member orders went to the Feature Group/LIS design team. After discussion with the appropriate design groups, it was decided that there is a functional synergy to have both orders designed in the same group.

Subsequent testing involved the single design group and processed smoothly through the Unbundled Design.

- 5.03.6 **Task 6: Facility Design Layout and/or Circuit Design Layout created is correct and SDC sends FOC to Co-Provider.**

This task was successfully completed and error-free.

- 5.03.7 **Task 7: Implementor coordinates DSL trunk port and Trunk group installation and resolves jeopardies.**

This task was successfully completed and error-free.

- 5.03.8 **Task 8: Load Specialist loads Central Office technologies (CTE) with work stage.**

This task was successfully completed and error-free.

- 5.03.9 **Task 9: COT completes CO wiring cross-connects**
This task was successfully completed and error-free.
- 5.03.10 **Task 10: COT performs conformance testing**
This task was successfully completed and error-free.
- 5.03.11 **Task 11: Implementor records test results and completes order.**
This task was successfully completed and error-free.
- 5.03.12 **Task 12: Co-provider notified**
This task was successfully completed and error-free.
- 5.03.13 **Task 13: Billing established**
IABS billing results indicated non-recurring and recurring billing information. Also the customer bill reflected the individual unbundled elements ordered and the rates statements correct for the test.

5.04 UNBUNDLED SWITCH ANALOG LINE PORT

U S West's process and procedures for the provisioning of Unbundled Line Port contains sixteen (16) process tasks. Each task was tested. The provisioning flow is described in the following table.

- 5.04.1 **Task 1: Co-Provider submits Local Service Request (LSR) form submitted via FAX.**
Unbundled Switch Analog Line Port orders were processed in CRIS via the Local Service Request (LSR) and proceeded in SOPAD and SOLAR successfully.
- 5.04.2 **Task 2: Screener receives electronic document & validates LSR form entries.**
This task was successfully completed and error-free.
- 5.04.3 **Task 3: Service Delivery Coordinator (SDC) validates order.**
This task was successfully completed and error-free.
- 5.04.4 **Task 4: SDC obtains Summary Billing Number.**
The summary billing number was the telephone numbers of our analog line ports.
- 5.04.5 **Task 5: SDC issues order to Service Order Processor (SOP).**
This task was successfully completed and the order sent to SOPAD (central region) and SOLAR (eastern region).
- 5.04.6 **Task 6: SDC issues Firm Order Commitment (FOC)**
This task was successfully completed and error-free.
- 5.04.7 **Task 7: Co-Provider receives inquiry response.**
This task was successfully completed and error-free.

- 5.04.8 **Task 8: Designer designs unbundled switch port to Co-Provider termination point.**
The order processed successfully through LFACS, through the SOAC-TIRKS interface and into TIRKS.

The only issue uncovered was, during the Nebraska test, the DNS-100 switch used required the SOAC USOC table field CONDUCTOR changed from 0 to 2. This allowed Order Equipment (OE) to be assigned. All tables within the three regions were updated for subsequent processing.

In the Order Automation process, the Beta Unbundled Switch Analog Line Port error occurred because of a system issue around the tie pair inventory. A tie pair was located and assigned and the order was re-ent through the Order Automation process. The Order Automation process ended successfully. A TRK was produced and the order was distributed to the WFA Systems. Subsequent Analog Line Port orders processed were successful.

- 5.04.9 **Task 9: Implementor coordinates cut (start) time with Co-Provider and Local Resource Allocation Center (LRAC).**

This task was successfully completed and error-free.

- 5.04.10 **Task 10: LRAC loads Central Office work steps**

This task was successfully completed and error-free.

- 5.04.11 **Task 11: Central Office technician (COT) performs work**

This task was successfully completed and error-free.

- 5.04.12 **Task 12: COT completes Line Translations**

This task was successfully completed and error-free.

- 5.04.13 **Task 13: Circuit is tested**

This task was successfully completed and error-free.

- 5.04.14 **Task 14: Order completed**

This task was successfully completed and error-free.

- 5.04.15 **Task 15: Co-Provider notified**

This task was successfully completed and error-free.

- 5.04.16 **Task 16: Billing established**

CRIS billing results indicated non-recurring and recurring billing adjustments. Also the customer bill reflected the individual unbundled elements ordered and the rates elements entered for the test.

The test successfully captured Minutes of Use (MOUs) in support of Shared Transport. However, there were system limitations preventing a billing separation of Intra-switch and Inter-switch MOUs. This will be available when a Change Request (CR) in CRIS is implemented in August of 1999.

5.05 CUSTOM ROUTING:

- 5.05.1 Pre-Planning questionnaires were filled out for the Custom Routing work required to both the 3E switch and the TOPS (DMS) switch. This work mirrored what would be required of the Co-Provider, up-front, which specifies the particular branding scenarios.
- 5.05.2 These questionnaires were sent to the appropriate internal work groups for the Transition work to begin. A request was made for an unique Line Class Code (LCC) to be established to Qwest for the routing. Upon receipt of this new LCC, it was passed to the "simulated" Co-Provider for opening Local Service Requests (LSRs).

5.06 UNBUNDLED CUSTOMER CONTROL RECONFIGURATION ELEMENT (UCCRE):

Test orders for UCCRE were submitted successfully through the UDDT process flow with the following additional procedures:

- UCCRE requires a Co-Provider fill out a questionnaire specifying which network reconfiguration requirements are needed. This questionnaire asks whether a Co-Provider requires either Analogous (USW access) or Dial-Up (Co-Provider access) controller access options and was successfully processed by the team's "simulated" Co-Provider and sent to the appropriate internal work group.
- UCCRE process requires terminating one end of an UDDT on a U S West Digital Access Control System (DACS). Our test included successfully installing multiple UDDTs on the DACS with designated ports that were programmed into the remote access system "Flex-Card".
- Remote reconfigurations of the multiple UDDTs, through "Flex-Card", were successfully completed to test various port configurations. These were done both as Analogous option and "simulated" Co-Provider Dial-Up option.

6.0 TEST CALL PLAN

6.01 The test began with Dial Tone being verified and Automatic Number Identification (ANI) performed to validate installation of the Analog Line Port Translations. Terminating calls also were made to the telephone numbers of the unbundled line port to validate ability to call the port.

UNBUNDLED ANALOG LINE PORT (SAMPLE TEST CALL PLAN)
 TELEPHONE # 602-956-9255
 PHOENIX NORTH EAST CENTRAL OFFICE, PHOENIX, ARIZONA
 SWITCH# SE
 Custom Routing Unique Line Class Code=XYZ

Call Type Expectations

CALL TYPE	NP ROUTE TYPE	I+ ROUTE TYPE	O+ ROUTE TYPE
LOCAL 7DIG (602-955-1955)	LOC RTE	I+ACDE	O+ACDE
LOCAL HNPA	LOC RTE	I+ACDE	CLEC OPR
LOCAL FNPA	LOC RTE	I+ACDE	CLEC OPR
ZERO MINUS	CLEC OPR		
411	CLEC OPR	CLEC OPR	O+ACDE
555 7DIGIT	CLEC OPR	I+ACDE	O+ACDE
911	911 RTE	911 RTE	911 RTE

(ACND= Access code not dialed recording ACDE= Access code dial in error recording)

(Call Type Results in Bold Green)

6.02 Mechanized front end branding of "simulated" Co-Provider XYZ was received for both Operator Assistance and Directory Assistance.

The operator's terminal screen was not initially displaying the ANI of our Analog Line Port but rather a default NPA-NNX. The problem was found to be an error in the TOPS BC (Billing Code) table. Our Line Port telephone number was added and the problem was resolved.

The operator's terminal screen also was not displaying the Co-Provider branding designation of XYZ. This problem was resolved by adding XYZ as Service Provider Identification (SPID) to the switch translations at the TOPS switch.

Back-end mechanized branding was received for Toll Operator Assistance.

The back-end mechanized branding for Direct Assistance was received as a generic brand and not our XYZ brand. This was due to the current IVS equipment limitations in the Phoenix TOPS switch. This limitation allows only two (2) mechanized branding: a generic and US West specific. A retrofit to ISN NAV equipment to TOPS switches across the region is on-going and should be completed by 10-25-01. This retrofit will allow multiple branding.

Manual back end Co-Provider branding for both OS and DA were received whenever the operator was involved in a charge-type calls (ie; Credit Card).

6.03 Upon completion of the above test calls, the LCC was changed on our analog line port to a U S West customer and the same calls made to test consistency and parity.

****Change LCC on 602-956-9255 from XYZ to AW1****

CALL TYPE	NP ROUTE TYPE	I+ ROUTE TYPE	O+ ROUTE TYPE
LOCAL 7DIG	LOC RTE	I+ACDE	O+ACDE
LOCAL HNPA	LOC RTE	I+ACDE	BOC OPR
LOCAL FNPA	LOC RTE	I+ACDE	BOC OPR
ZERO MINUS	BOC OPR		
411	BOC OPR	BOC OPR	O+ACDE
555 7DIGIT	BOC OPR	I+ACDE	O+ACDE
911	911 RTE	911 RTE	911 RTE

(Call Type Results in **Bold Green**)

6:03.01 All call type routing was received as expected, including routing calls to USW-branded Operator Services and Directory Assistance.

6.04 The Analog Line Port and its LCC was changed to one existing in the Phoenix North East to verify blockage of 900, 960 and 976 calls. The test was performed and the call results were blocked with a VACANT call announcement.

****Change LCC on 602-936-9255 from LMB to AM1***
 to verify 900 Blocking*

CALL TYPE	NP ROUTE TYPE	1+ ROUTE TYPE	0+ ROUTE TYPE
LOCAL 7DIG	LOC RTE	1+ACDE	0+ACDE
900	VACANT	VACANT	VACANT
960	VACANT	VACANT	VACANT
976	VACANT	VACANT	VACANT
ZERO MINUS	BOC OPR		
411	BOC OPR	BOC OPR	0+ACDE

(Call Type Results in Bold-Green)

6.05 Figure Five displays the captured Automatic Message Accounting (AMA) data reflecting the actual minutes of use incurred by the unbundled line port while making local calls. The Shared Transport MOUs would represent the billed entity for Shared Transport.

Figure Five
Line Class Code XYZ

Call #1

S4AD-215744628 99-05-11 08:43:31 078678 AMA PHNRACNEDCO
 M REPT AMATRC AMA RECORD ON REQUESTED DIRECTORY NUMBER

ORIGINATING SM/PORT = 41/H'61B

TERMINATING SM/PORT = 2/H'70A

 00 29 00 00 aa 00 50 2c 00 1c 90 51 1c 0c 00 0c 00 2c 00 00 29 5c 1c 00 00
 2c 95 77 40 3c 08 42 05 4c 00 00 01 24 1c 00 2c

Field Name	Char.	Value	Meaning
RECORD DESCRIPTOR	1-8	00290000	RDW
RECORD HEADER	1-2	aa	No Fill Char Expected in This Record
STRUCTURE CODE	1-5	00502	Structure Code
CALL TYPE	1-3	001	Detailed Message Rate, Time, With NRI
DATE	1-5	991111	99/11/11
OLD PARTY OFF-HK IND	1	0	Called party off-hook detected
SERVICE FEATURE	1-3	000	Other (All Services)
ORIGINATING NPA	1-3	602	NPA
ORIGINATING NUMBER	1-3	956	NXX
	4-7	9255	Four Digit Number
OVERSEAS INDICATOR	1	1	Not Overseas Call (NPA not dialed)
TERMINATING NPA	1-3	00	Overseas Expansion Position
	3-5	002	NPA
TERMINATING NUMBER	1-3	957	NXX
	4-7	7400	Four Digit Number
CONNECT/ANSWER TIME	1-7	0043054	00:43:05.4
ERASED TIME	1-9	00001001	00001001
WATS BAND or NRI	1-1	002	WATS Band Or Type Indicator

End of Record----

Intra-Switch

Call #2

0122 315744628 99-03-11 05:46:09 076785 AMR WASHINGTON DC
RECORD AMTRIC AMR RECORD ON REQUESTED DIRECTORY NUMBER

ORIGINATING CN/PORT = 41/1-618

TERMINATING CN/PORT = 01/1-076

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00

Field Name	Char.	Value	Meaning
RECORD DESCRIPTOR	1-3	00460000	AMR
RECORD HEADER	1-3	aa	No Fill Char Requested in This Record
STRUCTURE CODE	1-3	40002	Structure Code
CALL TYPE	1-3	001	Initiated Through CTR, Direct, With MS
DATE	1-3	99111	05/11/99
OLD PARTY OFF-HX IND	1	0	Called party off-hook requested
SERVICE FEATURE	1-3	000	Other Call Features
ORIGINATING NPA	1-3	602	NPA
ORIGINATING NUMBER	1-3	356	NXX
	4-7	9255	Four Digit Number
OVERSEAS INDICATOR	1	1	Not Overseas Call (AMR not Global)
TERMINATING NPA	1-3	00	Overseas Exchange Routine
	3-5	602	NPA
TERMINATING NUMBER	1-3	379	NXX
	4-7	0114	Four Digit Number
CONNECT/ANSWER TIME	1-7	0344056	03:44:05.6
ELAPSED TIME	1-9	000000000	00:00:00.0
WATS BAND or MBI	1-3	000	WATS Band or Type Indicator
BBMF MODULE CODE	1-3	720	Local Number Portability
PARTY IDENTIFIER	1-3	002	Terminating Party Data

Shared
Transp

7.0 **REPAIR/MAINTENANCE**

7.01 **UNBUNDLED SWITCHING**

US West's process and procedures for the maintenance and repair of Unbundled Switching contains sixteen (16) process tasks. Each task was tested. The provisioning flow is described in the following table.

7.01.1 **Task 1: Co-Provider isolates trouble to Switch Port and submits ticket.**

The maintenance test involved reporting a trouble condition on one of the installed unbundled switch line ports from the provisioning section of the bench test.

The "simulated" Co-Provider submitted trouble tickets via:

- Interconnect Mediated Access (IMA) mechanized entry
- Manual telephone call to the Account Maintenance Service Center (AMSC)

The process identifies certain tasks based on whether the Co-Provider will send their trouble reports either via IMA or a direct call into the AMSC.

7.01.2 **Task 2: Co-Provider creates trouble ticket.**

The IMA mechanized process involved two scenarios where the "simulated" Co-Provider reported the unbundled line port as both a base telephone number format (602-956-9255) and as a complete designed services circuit identification format (19 SNUU 602-956-9255). The process differed slightly depending on the reporting format.

When the "simulated" Co-Provider reported the complete circuit identification and clicked on the "Design Ticket" button, IMA returned a designed services trouble ticket format and after completing the entries, IMA successfully sent the ticket automatically to WFA-C.

When the "simulated" Co-Provider reported an incomplete circuit identification with just the telephone number, IMA assumed it was a POTS trouble and automatically entered a non-design trouble ticket in LMOS. A flag was received in the AMSC and the trouble ticket dropped out to be manually screened. In the AMSC, it was found that the circuit was not POTS and did not reside in LMOS but as a Designed Service residing in WFA-C. The screener cancelled the LMOS ticket and manually entered a trouble ticket into WFA-C. The screener called the "simulated" Co-Provider with the new WFA-C trouble ticket number.

7.01.3 Task 3: AMSC process call from Co-Provider.

This task is required when the Co-Provider directly calls the AMSC to report trouble.

The call was successfully answered, within 1 to 3 rings each time, by a U S West Repair Service Attendant (RSA).

7.01.4 Task 4: AMSC creates trouble ticket.

The RSA took the trouble information from the "simulated" Co-Provider. This information included:

- Circuit Identification (CKT ID)
- Reported trouble condition
- Co-Provider name and call-back number
- Access hours
- Any special requirements (ie; test only between certain hours, etc)

The RSA successfully found the CKT ID in Work Flow Administration/ Control (WFA-C) and generated a trouble ticket with the "simulated" Co-Provider on the line.

The RSA provided the trouble ticket number to the Co-Provider.

7.01.5 Task 5: Service Assurance Technician (SAT) analyzes trouble ticket and hand-off to appropriate maintenance organization.

The trouble ticket appeared on the appropriate WFA-C work lists and was "picked up" by the Des Moines Designed Service Center and was handed off to the appropriate Central Office work lists in Work Flow Administration/Dispatch In (WFA-DI).

7.01.6 Task 6: SAT follows major outage notification processes.

Our test trouble reports did not involve any major outage.

7.01.7 Task 7: Resolve Line Translation problem.

Based upon the analysis of the trouble condition, the test simulated a hand-off to the Central Office work groups via their WFA-DI work lists. The step was successfully completed but the actual technician dispatch was not generated.

7.01.8 Task 8: SAT hands ticket off to I&M technician dispatch.

No outside dispatch is required for unbundled switching port trouble resolution.

7.01.9 Task 9: CORAC loads appropriate LNO technician.

Based upon the analysis of the trouble condition, the test simulated a hand-off to the Central Office work groups via their WFA/DI work lists. The step was successfully completed but the actual technician dispatch was not generated.

7.01.10 Task 10: LNO technician isolates trouble.

Based upon the analysis of the trouble condition, the test simulated a "pick-up" of the ticket by the Central Office work groups. The step was successfully completed but the actual technician dispatch was not generated.

7.01.11 Task 11: LNO technician repairs trouble.

Based upon the analysis of the trouble condition, the test simulated a trouble resolution by the Central Office work groups. The step was successfully completed but the actual technician dispatch was not generated.

7.01.12 Task 12: LNO technician closes their ticket.

Based upon the analysis of the trouble condition, the test simulated a ticket closure by the Central Office work groups. The step was successfully completed but the actual technician dispatch was not generated.

7.01.13 Task 13: LNO technician contacts SAT with ticket results.

Based upon the analysis of the trouble condition, the test simulated a call back to the SAT. The step was successfully completed but the actual technician dispatch was not generated.

7.01.14 Task 14: SAT contacts Co-Provider and provides trouble disposition.

The SAT contacted the "simulated" Co-Provider with successful trouble resolution.

7.01.15 Task 15: Co-Provider accepts closure.

Co-Provider accepted ticket resolution.

7.01.16 Task 16: SAT closes WFA-C trouble process.

SAT closed the trouble ticket in WFA-C upon Co-Provider acceptance.

7.02 UNBUNDLED TRANSPORT

US West's process and procedures for the maintenance and repair of Unbundled Transport contains fifteen (15) process tasks. Each task was tested. The provisioning flow is described in the following table.

7.02.1 Task 1: Co-Provider isolates trouble in unbundled interoffice transport (UDIT) and reports trouble.

The maintenance test involved reporting a trouble condition on one of the installed UDITs from the provisioning section of the bench test.

The "simulated" Co-Provider submitted trouble tickets via:

- IMA mechanized entry
- Manual telephone call to the Account Maintenance Service Center (AMSC)

The process indicates tasks based on whether the Co-Provider will send their trouble reports via IMA or a direct call into the AMSC.

7.02.2 Task 2: Co-Provider creates trouble ticket.

The IMA mechanized process involved the "simulated" Co-Provider reporting the UDIT as a complete designed services circuit identification format (14 HCFU 979430 MS).

When the Co-Provider reported the complete circuit identification and clicked on the "Design Ticket" button, IMA returned a design services trouble ticket format and after all entries were completed, IMA successfully sent the ticket automatically to WFA-C.

7.02.3 Task 3: AMSC process call from Co-Provider.

This task is required when the Co-Provider uses a manual telephone call to report trouble.

The call was successfully answered, within 1 to 3 rings each time, by a U S West Repair Service Attendant (RSA).

70214 Task 4: AISE creates trouble ticket.

The AISE took the trouble information from the "simulated" Co-Provider. This information included:

- Circuit Identification (CKT ID)
- Reported trouble condition
- Co-Provider name and call-back number
- Access hours
- Any special requirements (ie, test only between certain hours, etc)

The AISE successfully found the CKT ID in Work Flow Administration/ Control (WFA-C) and generated a trouble ticket with the "simulated" Co-Provider on the line.

The AISE provided the trouble ticket number to the Co-Provider.

70215 Task 5: Service Assurance Technician (SAT) analyzes trouble ticket and hand-off to appropriate maintenance organization.

The trouble ticket appeared on the appropriate WFA-C work lists and was "picked up" by the Des Moines Integrated Service Center and was handed off to the appropriate Central Office work lists in Work Flow Administration/ Dispatch In (WFA-DI).

70216 Task 6: SAT follows major outage notification processes.

The test trouble reports did not involve any major outage.

70217 Task 7: SAT hands ticket off to CORAC technician dispatch.

Based upon the analysis of the trouble condition, the test simulated a hand-off to the CORAC work group via the WFA-DI work lists. The step was successfully completed but the actual technician dispatch was not generated.

70218 Task 8: CORAC loads appropriate LNO technician.

Based upon the analysis of the trouble condition, the test simulated a hand-off to the Central Office work groups via their WFA-DI work lists. The step was successfully completed but the actual technician dispatch was not generated.

70219 Task 9: LNO technician isolates trouble.

Based upon the analysis of the trouble condition, the test simulated a "pick-up" of the ticket by the Central Office work groups via their WFA/DI work lists. The step was successfully completed but the actual technician dispatch was not generated.

70220 Task 10: LNO technician repairs trouble.

Based upon the analysis of the trouble condition, the test simulated a trouble resolution by the Central Office work groups. The step was successfully completed but the actual technician dispatch was not generated.

70221 Task 11: LNO technician closes WFA/Dispatch In (WFA/DI) ticket.

Based upon the analysis of the trouble condition, the test simulated a ticket closure by the Central Office work groups. The step was successfully completed but the actual technician dispatch was not generated.

00212 Task 12: LND technician contacts SAT with ticket results.

Based upon the analysis of the trouble condition, the test simulated a call back to the SAT. The step was successfully completed but the actual technician dispatch was not generated.

00213 Task 13: SAT contacts Co-Provider and provides trouble disposition.

The SAT contacted the "simulated" Co-Provider with successful trouble resolution.

00214 Task 14: Co-Provider accepts closure.

Co-Provider accepted ticket resolution.

00215 Task 15: SAT closes Work Flow Administration-Control (WFA-C) trouble ticket.

SAT closed the trouble ticket in WFA-C upon Co-Provider acceptance.

5.0 SUMMARY:

5.01 The ground rule of the Bench Test plan was to follow the current documented processes (see chapter 5 Summary of BFT test results) that support Unbundled Elements and Custom Routing. Within the process, whenever any functions were required of the Co-Provider, it was handled by the team's designated "simulated" Co-Provider.

5.02 The bench test format consisted of provisioning a series of Beta orders. The team identified any issues and made the necessary process and/or system changes. Then re-tested the process through an additional series of orders. This re-testing proved the validity of any process and/or system changes.

The issues encountered on the Beta orders were of the type to be anticipated and not unusual due to the fact this was the first time these particular unbundled products were processed in Arizona and Nebraska. All issues were resolved and subsequent re-testing was processed successfully.

5.03 All input/output documents identified in the UDIT, Unbundled Trunk Ports and Trunk group/members processes were issued. The orders were processed through U S West's Designed Services flow.

5.04 The ACTL code, an 11 character Common Language Location Identification (CLLI), will be required for ICDF Collocation for design flow-through to occur. This is similar to the current ACTL procedure for Physical, Virtual and Cageless Collocation.. The Methods & Procedures were updated to include this requirement and orders re-tested to verify completion.

5.05 UCCRE was successfully tested to include terminating multiple UDIT orders on a DACS and using "Flex-Com" to provide remote reconfigurations, testing both Attendant (USW control access) and Dial-Up (Co-Provider control access) options.

5.06 Orders were wired and tested per the Combination Point of Interconnection (POI) process instructions, which assumes the Co-Provider is responsible to perform the cross-connect functions. In the test, USW technicians "simulated" Co-Provider activity in combining unbundled elements.

If USW technicians are legally or contractually required to perform the cross-connect function for the Co-Provider, the current Connecting Facility Assignment (CFA) process, in place today, must be used to provide the technicians the related cross-connect information.

5.07 The test call plan, involving "live" calls, was conducted on 5-5-99 and also on 6-7-99. Using a standard USW test call type expectation grid, actual calls were placed and the results documented (see chapter 6).

5.08 In the area of Co-Provider OS/DA branding the following was found:

- ❖ Front end mechanized Co-Provider branding was received on all calls to Operator Services and Directory Assistance.
- ❖ At the actual Operator terminal positions, OS/DA translation-driven table entries were required to display the ANI of our analog line port telephone number and the specific Co-Provider brand. Table updates were performed and the ANI and brand were displayed on subsequent calls.
- ❖ There were equipment limitations in the TOPS switch which prevented multiple Co-Provider branding for Direct Assistance. This will be resolved with the current on-going ISN NAV switch retrofit.

- ☛ On test calls resulting in charges (ie: Credit Card) the operator completed the call process and manually gave a back end branding of "Thank you for using XYZ". Operator procedures specified any received calls that do not have a brand displayed on the terminal, indicate a USW customer and receive "Thank you for using USW". Any calls displaying a brand on the terminal (ie: Co-Providers, Independent Company) indicate a Co-Provider customer and receive the specific brand.

§ 10 Repair Maintenance tests were conducted and trouble tickets successfully submitted through both mechanized IMA or direct calls into the Account Maintenance Service Center (AMSC). The trouble tickets were successfully processed through the various trouble resolution hand-offs and were completed.

Unbundled transport trouble tickets were successfully submitted through IMA even though the UDET circuits were provisioned through EXACT.

- § 10 In summary, the 1999 Bench Test proved the validity of U S West's processes and systems and supported the advocacy on unbundled elements. It provides the validation required for Section 271 Checklist items #5 (unbundled transport) & #6 (unbundled switching).

The test also re-enforced the results from the 1998 Lab-controlled Bench Test by validating the tests in U S West's OSS Production environment in both Central and Eastern regions.

The additional Custom Routing test provided the opportunity to process complex translations within a TOPS switch to successfully route a Co-Provider dedicated OS/DA call completion and provide Co-Provider branding.

APPENDIX A

APPENDIX A (CONTINUED)

APPENDIX A (CONTINUED)

Issue/ Activity	Process Flow Reference	Status
Select Central Office in Arizona and Nebraska	Pre-Planning meeting with "simulated" Co-Provider and USW Account Team	Completed Phoenix NorthEast and Omaha, Nebraska central offices selected
Gather CLLI codes for switches, bases and NNXs involved	Pre-Planning meeting with "simulated" Co-Provider and USW Account Team	Completed CLLI were gathered and a 11 character ACTL created in CLONES to represent Co-Provider (PHNXAZNEHJ8)
Check ZCID of 299 is valid in CRIS and LARS billing tables	Various Billing Account Number (BAN) tasks within Unbundled Switch & Transport	Completed This ZCID is for test purposes. Each Co-Provider has an unique ZCID
Conduct Pre-Order Mtg to fill out Customer Questionnaire and Custom Routing forms -Unbundled Line Port -OPS/DA switch port -Unbundled Trunk Port	Pre-Planning meeting with "simulated" Co-Provider and USW Account Team	Completed All M&Ps reflect the use of these questionnaires for on-going order activity
Establish new CLEC measured LCC based on Custom Routing forms	Custom Routing tasks	Completed Code=XYZ (test purposes)
Create Unbundled Switch DSI Trunk Port Order and Trunk group/member s orders	Unbundled Switch Trunk Port Tasks 3 & 4	Completed Orders submitted to BIT team for testing. After test, all M&Ps updated to reflect test results. See Appendix A for detailed order sample
Create UDIT order between Wire Ctr and OPS/DA switch	Unbundled UDIT tasks 1-5	Completed Order submitted to BIT team for testing. After test, all M&Ps updated to reflect test results. See Appendix A for detailed order sample
Deploy new CLEC LCC	Custom Routing tasks	Completed Deployed 4-29-99

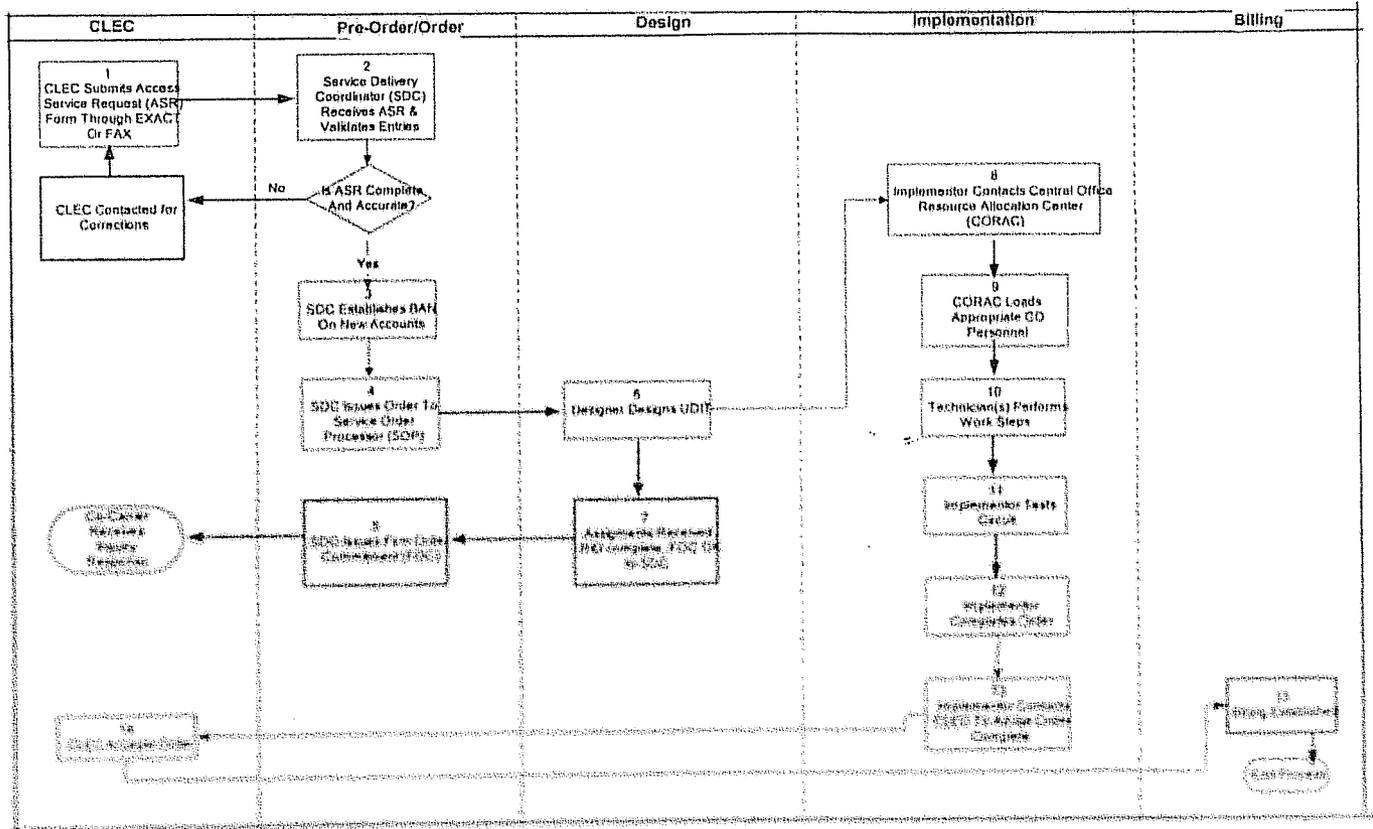
into CO		
Start Bit Test of Issuance of DS1 trunk Port, Trk group/ members & UDIT orders	Unbundled Switch Trunk Port tasks 4-12 Unbundled UDIT tasks 6-13	Completed Orders were wired and completed per the Design Documents.
Create Unbundled analog line port order	Unbundled Switch Line Port Tasks 1-7	Completed Order submitted to BIT After test, all M&Ps updated to reflect test results. See Appendix A for detailed order sample
Start Bit Test of Issuance of unbundled line port order	Unbundled Switch Line Port Tasks 8-16	Completed Orders were wired and completed per the Design Documents.
Conduct Test Calls using Test Plan		Completed Test conducted on 5-5-99 and the results can be found in Test Plan section
Gather AMA records of Minutes of Use for Local calls		Completed Sample AMA record trace completed
Create a bill which shows MOUs & access charges suppressed	Unbundled Elements various billing tasks	Completed Sample CRIS and IABS billing records generated

CONTINUATION

[13]

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Unbundled Dedicated Interoffice Transport Provisioning Process



CONTINUATION

[14.]

Unbundled Dedicated Interoffice Transport Provisioning Task List

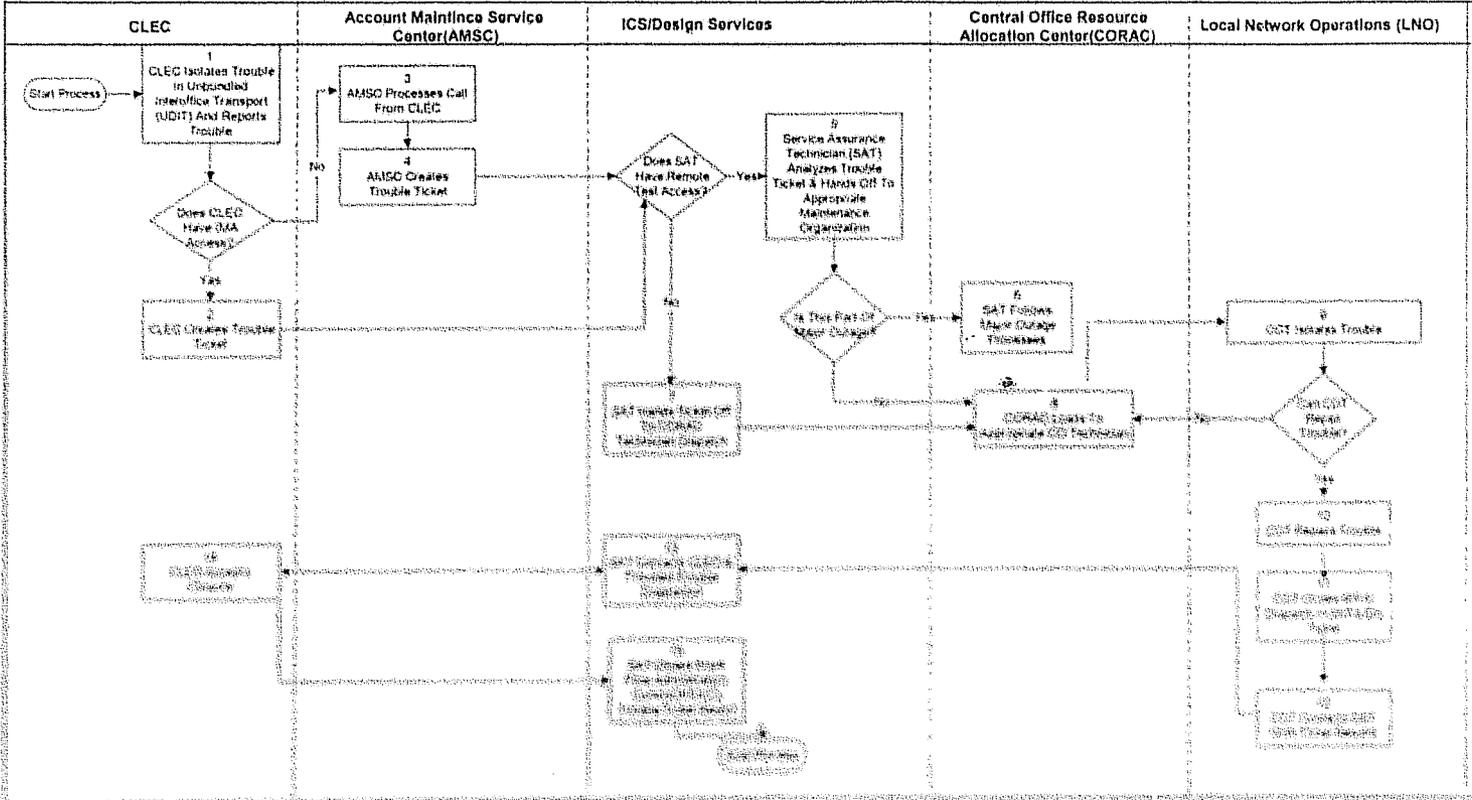
Assoc. Task #	Process
1	Co-Provider Issues complete and accurate Access Service Request. These requests are issued through EXACT or by fax.
2	ASR and associated forms reviewed for completeness and accuracy by Service Delivery Coordinator (SDC). Contacts CLEC if necessary for corrections.
3	SDC establishes Billing Account Number (BAN) if necessary.
4	SDC issues order into the service order processor using appropriate intervals.
5	SDC receives OK from Designers (RID complete) and issues Firm Order Confirmation (FOC).
6	Unbundled dedicated interoffice transport facility is designed in TIRKS.
7	Design Center ensures Assignments are received, completes RID, and authorizes the RID to issue FOC.
8	Implementor contacts Central Office Resource Allocation Center (CORAC).
9	CORAC loads appropriate Central Office Technician(s) to perform work steps.
10	CO Technician(s) receive work request and complete work steps.
11	Implementor tests circuit.
12	Implementor completes order and completes in WFAIC.
13	Implementor contacts Co-Provider to advise order complete. CLEC accepts credit.
14	Service orders completes and posts to begin billing.

CONTINUATION

[15]

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Unbundled Dedicated Interoffice Transport Maintenance Process



CONTINUATION

[16.]

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Unbundled Dedicated Interoffice Transport Maintenance Task List

Assoc. Task #	Process
1 or 2	Trouble ticket submitted NOTE: If CLEC has a system interface they may submit report electronically Otherwise CLEC calls AMSC to report trouble and steps 3 and 4 are required
3	Process ticket received from CLEC
4	Trouble ticket created
5	Analyze trouble ticket, identify location, and assign to appropriate organization
6	If trouble is related to a major outage SAT follows major outage notification processes
7	If trouble location can not be identified by SAT the SAT hands off tkt to CORAC to dispatch technician
8	CORAC loads to appropriate Central Office Technician (COT)
9	Trouble is isolated
10	Trouble repaired
11	Trouble ticket updated
12	Contact SAT with ticket results
13	CLEC notified
14 and 15	CLEC accepts service and Trouble ticket closed