



<i>Test Vendor ID:</i>	EXP 3104
<i>Qwest Internal Tracking ID:</i>	TI 789
<i>Observation/Exception Title:</i>	DS1 Enhanced Extended Loop (EEL) circuit
<i>Test Type/Domain:</i>	Test 14 - POP Provisioning
<i>Date Qwest Received:</i>	12/27/2001
<i>Initial Response Date:</i>	01/04/2002
<i>Supplemental Response Date:</i>	01/15/2002
<i>2nd Supplemental Response Date:</i>	01/30/2002
<i>3rd Supplemental Response Date:</i>	01/31/2002
<i>4th Supplemental Response Date:</i>	02/04/2002

Test Incident Summary:

An exception has been identified as a result of the test activities associated with Provisioning Test 14.

Exception:

Qwest personnel did not adhere to DS1 Enhanced Extended Loop (EEL) circuit provisioning methods and procedures.

Background:

An EEL is a combination of the Unbundled Local Loop and Unbundled Dedicated Interoffice Transport (UDIT) and/or Extended-Unbundled Dedicated Interoffice Transport. The EEL enables the CLEC to access end users not located in the same Qwest serving wire center collocated by the CLEC.

An EEL is similar to a DS1, DS3, and various DS0/voice access services. Access services are those services designed to connect an end user to a carrier. In this application, the EEL is designed to connect the end user to the CLEC but the EEL contains a limited subset of features and options available with the full access service product. Those features and options included are the ones available with the Unbundled Loop and Unbundled Dedicated Interoffice Transport Unbundled Network Elements. The EEL is available in two configurations: a) point-to-point EEL, and b) multiplexed EEL.

The provisioning of DS1 EEL services should mirror existing DS1 provisioning processes.

Qwest provided KPMG Consulting with multiple documents at the time observations were conducted that describe the methods and procedures (M&Ps) Qwest personnel undergo to provision DS1 EEL circuits:

KPMG Consulting applies a 95% benchmark against methods and procedure compliance¹. All observations were analyzed to ascertain whether Qwest personnel adhered to the provisioning tasks as defined in the aforementioned documents.

¹ This standard is based on KPMG Consulting's professional judgment.



Issue:

KPMG Consulting observed eleven (11) high capacity DS1 EEL orders from November 8, 2001 to December 18, 2001. Qwest's methods and procedures documentation and task compliance rate was calculated to be 87%, which is below KPMG Consulting's applied benchmark value of 95%.

KPMG Consulting has provided Qwest with specific order information for each observation in a separate confidential document.

KPMG Consulting recognizes that Qwest has continually provided updated and additional documents as testing activities have progressed, especially with regards to Observation 3054 and Exception 3082. Where applicable and when made available, these new documents have been used. KPMG Consulting wishes to note that any data it gathers during testing activities are compared to the latest versions of documents in our possession at that time.

Impact:

Failure to provision high capacity DS1 EEL circuits in a manner consistent with documented methods and procedures may lead to the inconsistent delivery of products to CLECs. This could increase a CLEC's operating costs as a result of increased resources required to investigate the issue. A CLEC's customers may experience decreased levels of satisfaction if unnecessary delays occur.

Qwest Formal Response:

Qwest researched eight of the eleven observations, which were provided by KPMG on a Confidential Attachment. Three of the observations were satisfactory on all measures based on the data provided by KPMG. The observations will be referred to by Item No. as reflected on the Confidential Attachment. The results of the analysis are summarized below:

Item 1: 3 violations

The order was identified as NS in three fields, 1)M&P Doc. Violation, 2)QRSS, and 3)All Zero's B8ZS Test Pattern.

1)Per Qwest research on the M&P violation, the Implementor had *DS1 Enhanced Extended Loop (EEL-P) DS1 EEL Provisioning, Issue 3, Issue Date August, 2001*, available. The Implementors had been trained on the above documentation on November 7-9, 2001. Although the Implementor had the correct document, he did not provide it to the auditor.

2 and 3)Qwest research indicates the Implementor performed the QRSS Test and the All Zero's Test, but the specific duration was not recorded within the OSSLOG or OSSCN. The OSSCN lists the break down of the 100.00% completion of the QRS, All 0s, 1/8 and All Ones testing with zero bit errors found. The Implementor should have referred to the internal process document, *6.0 PTD EVENT DATE, 6.03 Document Test Results in WFA/C, OSSCN (Circuit Notes) in WFA/C, created on 6/26/97*, for detail on logging the results on the OSSCN page. A copy of this internal process document will be provided as a Confidential Data Request associated with this Exception. All Implementors in the Centers will be retrained and provided with the most current documentation for provisioning DS1 EEL circuits by January 15, 2002.

Item 2: 1 violation

The order was identified as NS in the All One's Test Pattern Observation. Per Qwest research, the Technician did perform the All One's Test for one minute instead of five minutes. This was done in human error. All Qwest documentation states that the All Ones Test should be completed for five minutes with zero error seconds found. All Implementors in the Centers will be retrained and provided with the most current documentation for provisioning DS1 EEL circuits by January 15, 2002.



Item 3: 1 violation

The order was identified as NS in the M&P observation. Qwest research indicates that the technician did provide the appropriate documentation. The technician had the internal process document, *Designed Services DS 98-001-C Unbundled Loop-CFA Version Methods and Procedures CCT-I Job Aid, Issue Date March 27, 2001*, which was the current document at the time the order was completed, November 12, 2001. This document has since been retired and replaced with *Network Complex Services Unbundled Loop – Basic Methods and Procedures IMPLEMENTORS Job Aid Effective Date 01-98, Issue 28, Revision Date December 14, 2001*. The current document was provided to KPMG, along with a revised process index, on December 21, 2001 as a Confidential Data Request associated with Observation 3054.

Item 4: Satisfactory

According to KPMG's confidential attachment, this order was completed properly demonstrating all of KPMG's observable testing steps.

Item 5: 1 violation

The order was identified as NS in the dB Loss Observation. Qwest believes that the auditor expected to see a 0 dB level. The allowable variance appropriate for an end-user network interface is +/- 0.5dB. This information can be found in the *DS1 Fundamentals, Testing the T1 Span Issue Date January 1, 2001*, which will be provided as a Confidential Data Request associated with this Exception.

Item 6: Satisfactory

According to KPMG's confidential attachment, this order was completed properly demonstrating all of KPMG's observable testing steps.

Item 7: Satisfactory

According to KPMG's confidential attachment, this order was completed properly demonstrating all of KPMG's observable testing steps.

Item 8: 1 violation

The order was identified as NS in the M&P Doc. Violation Observation field. Qwest research indicates that the auditor requested the parameters for dB loss. The Implementor should have referred to the process document, *T1 Checklist Coordinator Implementor, Version 2, Issue Date October 30, 2001*, for the test requirements, and then to the document, *6.0 PTD EVENT DATE, 6.03 Document Test Results in WFA/C, OSSCN (Circuit Notes) in WFA/C, created on 6/26/97*, for detail on logging the results on the OSSCN page. The aforementioned internal process documents were provided to KPMG, along with a revised process document index, on December 21, 2001, as a Confidential Data Request associated with Observation 3054. All Implementors in the Centers will be retrained and provided with the most current documentation for provisioning DS1 EEL circuits by January 15, 2002.

Item 9: 2 violations

The order was identified as NS in two Observation fields, 1)Demarcation Tagged and 2)All Zero's B8ZS Test Pattern.

1)Per Qwest research, the technician did tag the demarc and properly provided the information to the implementor. It is listed on the OSSCN as "RJ48C TAGGED," which will be provided as a Data Request associated to this response.

2)Qwest also performed the All Zero's Test, but no detail as to duration was documented. The Implementor should have referred to process document, *6.0 PTD EVENT DATE, 6.03 Document Test Results in WFA/C, OSSCN (Circuit Notes) in WFA/C, created on 6/26/97*, for detail on logging the results on the OSSCN page. All Implementors in the Centers will be retrained and provided with the most current documentation for provisioning DS1 EEL circuits by January 15, 2002.



Item 10: 1 violation

The order was identified as NS in the All One's Test Pattern Observation. Qwest research in the WFADO database indicates that the All One's Test Pattern was run for five minutes, and successfully completed. This is noted on the OSSLOG screen, which will be sent to KPMG as a Data Request associated with this Exception.

Item 11: 1 violation

The order was identified as NS in the All Zero's (B8ZS) Test Pattern Observation. The OSSCN notes that all tests were completed, but no details were provided. The technician should have followed the process document *6.0 PTD EVENT DATE, 6.03 Document Test Results in WFA/C, OSSCN (Circuit Notes) in WFA/C, created on 6/26/97*, for detail on logging the results on the OSSCN page. All Implementors in the Centers will be retrained and provided with the most current documentation for provisioning DS1 EEL circuits by January 15, 2002.

Qwest Formal Response:

In conclusion, Qwest's research indicates that of the 11 violations, 4 of the violations were "S" Satisfied.

Item 3 was classified as NS for M&P. Qwest research indicates the technician had the correct documentation.

Item 5 was classified as NS for dB Loss Parameters. Qwest research indicates the reading was within the parameters for the dB test.

Item 9, violation 1, was classified as NS for Demarcation Tagged. Qwest documentation indicates the Demarcation was noted in the record.

Item 10 was classified as NS for All Ones Test Pattern. Qwest documentation indicates that All Ones Test Pattern run for the proper duration.

The other 7 violations were NS due to human errors. All Implementors in the Centers will be retrained and provided with the most current documentation for provisioning DS1 EEL circuits by January 15, 2002.

The following documents will be provided as a Confidential Data Request associated with this Exception:

- 1) *6.0 PTD EVENT DATE, 6.03 Document Test Results in WFA/C, OSSCN (Circuit Notes) in WFA/C, created on 6/26/97*
- 2) *OSSCN Logs for Items 9 and 10.*
- 3) *DS1 Fundamentals, Testing the T1 Span Issue Date January 1, 2001*

Qwest Supplemental Response (01/15/2002):

Qwest committed to the following action items in the 1/4/02 response:

"All Implementors in the Centers will be retrained and provided with the most current documentation for provisioning DS1 EEL circuits by January 15, 2002.

The following documents will be provided as a Confidential Data Request associated with this Exception:

- 1) *6.0 PTD EVENT DATE, 6.03 Document Test Results in WFA/C, OSSCN (Circuit Notes) in WFA/C, created on 6/26/97*



- 2) *OSSCN Logs for Items 9 and 10.*
- 3) *DS1 Fundamentals, Testing the T1 Span Issue Date January 1, 2001*”

Qwest completed retraining for provisioning DS1 EEL circuits on 1/15/02. Also, Qwest issued the confidential data request (DR # TI-789 - EXP 3104) on 1/4/02.

KPMG Comments (01/15/2002):

KPMG has reviewed the response from Qwest and has the following comments.

Item 1:

KPMG has received and reviewed the document, 6.0 PTD EVENT DATE, 6.03 Document Test Results in WFA/C, OSSCN (Circuit Notes) in WFA/C, created on 6/26/97. In addition, KPMG will resume testing activities after January 15, 2002 to accommodate Qwest’s training schedule.

Item 2:

KPMG will resume testing activities after January 15, 2002 to accommodate Qwest’s training schedule.

Item 3:

KPMG disagrees with Qwest’s findings. At the time of the observation, Qwest staff was unable to produce the necessary document KPMG expected. Furthermore, per KPMG’s observation records, the Qwest staff provided the KPMG representative with hand written notes, which was not consistent with KPMG’s documentation expectations. As a result, this task remains not satisfied.

Item 5:

At the time of this particular observation (12/04/01), Qwest did not provide KPMG with the document, DS1 Fundamentals, Testing the T1 Span, Issue Date January 1, 2001. Furthermore, the creation of this document was after the observation occurred. Consequently, KPMG cannot apply these new standards after the fact. KPMG expects Qwest to provide all the necessary documentation prior to KPMG personnel observing any service orders.

KPMG has reviewed the document DS1 Fundamentals, Testing the T1 Span, and requests that Qwest clarify the application of this document. KPMG would like to understand:

- 1. Who are the users of this document?
- 2. How is it released and distributed?
- 3. What type of document is this? i.e., Is this a training document, bulletin, methods and procedure, etc.?
- 4. Are all Qwest personnel provisioning DS1 EEL-P circuits expected to possess this document?
- 5. Should KPMG personnel expect Qwest personnel to possess this document and be conversant on its contents?

This violation remains not satisfied.

Item 8:

KPMG will resume testing activities after January 15, 2002 to accommodate Qwest’s training schedule.

Item 9:



KPMG has reviewed the OSSCN log for this service order and agrees with Qwest's finding. The demarcation was tagged and properly identified. KPMG will change this task to Satisfied.

KPMG will resume testing activities after January 15, 2002 to accommodate Qwest's training schedule.

Item 10:

KPMG has reviewed the OSSCN log for this service order and disagrees with Qwest's finding. KPMG noted the Qwest tester executed the All One's test pattern for only 3 minutes, which is not within the documented requirements KPMG possessed at the time of the observation. This task remains not satisfied.

Item 11:

KPMG will resume testing activities after January 15, 2002 to accommodate Qwest's training schedule.

KPMG Summary of Violations:

The Item 3 violation remains Not Satisfied.

The Item 5 violation remains Not Satisfied.

The Item 9 demarc task will be changed to Satisfied.

The Item 10 violation remains Not Satisfied.

Based on the KPMG's reanalysis, Qwest's methods and procedures documentation and task compliance rate is 88.5%, which is below KPMG's applied benchmark value of 95%.

KPMG requests this Exception remain open. KPMG will continue testing activities after January 15, 2002.

Qwest Response to KPMG Comments (01/30/2002):

Qwest disagrees that items 3 and 10 should be classified as "Not Satisfied." Qwest personnel correctly followed DS1 Enhanced Extended Loop (EEL) circuit provisioning methods and procedures during these 2 observations, as detailed below.

Item 3:

KPMG states that Qwest staff was unable to produce the necessary documents that KPMG expected to see. Qwest disagrees, as the Qwest technician and KPMG representative viewed the EEL process documents on the Network Complex Services (NCS) home page, and the Qwest technician printed hard copies of the EEL documents for the KPMG representative.

Item 5:

At the time of this particular observation (12/04/01), Qwest did not provide KPMG with the document, DS1 Fundamentals, Testing the T1 Span, Issue Date January 1, 2001. Furthermore, the creation of this document was after the observation occurred. Consequently, KPMG cannot apply these new standards after the fact. KPMG expects Qwest to provide all the necessary documentation prior to KPMG personnel observing any service orders.

Qwest initial research on Item 5 found that the technician had access to internal training documentation in addition to the M&Ps. The technician relied on the training documentation to support accepting the circuit with +0.3 dB, which was outside of the



-16.5 to 0 dB stated in the M&P. The training documentation, which referenced an acceptable +/- 2 dB loss variance in the test set, consisted of course material for a class delivered by Qwest's Network Training and Development Organization. Qwest sent the training documentation, DS1 Fundamentals, Testing the T1 Span, Issue Date January 1, 2001, to KPMG in a DR associated with Exception 3104 on January 7, 2002. Qwest notes that this documentation was not created after the date of the observation, as KPMG suggests. The documentation was created on January 1, 2001. KPMG's observation took place on December 4, 2001, 11 months after this document was created.

While the dB loss variance parameters set forth in the training documentation are appropriate, based on the manufacturer specifications for the test sets, this information should have been included in Qwest's formal M&Ps. All Qwest M&P documents for provisioning DS1 circuits will be revised to include the +/- 2 dB loss variance in the test sets, as specified by the manufacturer specifications. The manufacturer specifications for the test sets will be sent as an attachment to this Exception. The revised M&P documents will also be provided to KPMG through a Data Request associated with this Exception. The revised M&Ps were distributed and made available in the Designed Services Centers on January 30, 2002. The revised M&Ps will be distributed and made available to all Central Office and Field Technicians by February 1, 2002.

KPMG has reviewed the document DS1 Fundamentals, Testing the T1 Span, and requests that Qwest clarify the application of this document. KPMG would like to understand:

1. Who are the users of this document?

The document DS1 Fundamentals, Testing the T1 Span, Issue Date January 1, 2001, is used by Qwest students participating in instructor-led classes provided by the Network Training and Development Organization.

2. How is it released and distributed?

Technicians obtain the document by attending the class. This document is not for publication or external distribution.

3. What type of document is this? I.e., Is this a training document, bulletin, methods and procedure, etc.?

This document is classroom training material provided by the Network Training and Development Organization to students during instructor-led classroom training.

4. Are all Qwest personnel in provisioning DS1 EEL-P circuits expected to possess this document?

Qwest personnel provisioning DS1 EEL-P circuits are not expected to possess this document or use it as a reference guide in provisioning DS1 EEL-P circuits. The document is intended for use during the classroom training. Qwest technicians are expected to reference the DS1 M&P documents in provisioning DS1 EEL-P circuits, which will be updated to include the +/- 2 dB loss variance in the test sets that is referenced in the training document.

5. Should KPMG personnel expect Qwest personnel to possess this document and be conversant on its contents?

KPMG personnel should not expect Qwest personnel to possess this document and be conversant with its contents. The document is designed to be used in classroom training. Qwest technicians are expected to reference the DS1 M&P documents in provisioning DS1 EEL-P circuits as noted above.

Item 10:

Qwest re-validated the OSSLOG provided with this Exception on January 7, 2002, and specifically refers KPMG to the entry dated December 10, 2001. The All 1's test was run for 5 minutes, in accordance with test parameters provided in Network Complex/Designed Services DS1 Enhanced Extended Loop (EEL-P) Job Aid Customer Communication Technician – DS1 EEL Provisioning



Effective Date: August, 2001 Revision Date/Number: January 9, 2002, #5. The All 1's test result is documented in the last entry for December 10, 2001 on the OSSLOG screen.

Summary:

The following Qwest internal process documents were updated to include the +/- 2 dB loss variance in the test sets per manufacture specifications. The documents will be provided to KPMG through a DR associated with this Exception:

DOCUMENT	Revision Date	Issue No.
Local Network Operations Unbundled Digital Signal Level 1 (DS1) Capable Loop Field Technician Checklist	01/29/02	3
Local Network Operations Enhanced Extended Loop (EEL) – Version 4.0 Field Technician Checklist	01/29/02	4
Local Network Operations Field Technician Checklist DS1 HDSL Technology	01/29/02	6
Local Network Operations Field Technician Checklist for DS1 Repeated T1 Technology	01/29/02	5
Designed Services DS 98-0001-C – Version 3.0 Unbundled Loop Methods and Procedures Unbundled Loop—DS I&M Methods and Procedures	01/29/02	
Network Complex/Designed Services DS1 Enhanced Extended Loop (EEL-P) Job Aid Customer Communication Technician – Implementation DS1 EEL Provisioning DS1 Enhanced Extended Loop (EEL_P) DS1 EEL – Provisioning CUSTOMER COMMUNICATIONS TECHNICIAN – IMPLEMENTATION GROUP (TEST AND TURN-UP TECHNICIANS)	01/30/02	6
T1 Checklist Coordinator/Implementor	01/29/02	2.1
Qwest CLEC Coordination Center QCCC Coordinated Installation Checklist	01/29/02	1.4
Network Complex Services Unbundled Loop-QCCC Methods and Procedure Coordinators/Implementors Job Aid	01/29/02	40
Network Complex Services Unbundled Loop-Core Test Requirements Unbundled Loop Field DD Test Requirements Core Tests to be performed on all Unbundled Loops	01/29/02	6
BGS/CXR/ICS Service Delivery and Service Assurance Process Bulletin Unbundled Loop Pre-survey PB 00126-6	08/15/00	6
Network Complex Services Unbundled Loop-Basic Methods and Procedures Implementors Job Aid	01/29/02	31
Central Office (CO) Job Aid Doc No. CO-CL-09-0002	01/29/02	3
6.0 PTD Event Date 6.03 Document Test Results in WFA/C, OSSCN (Circuit Notes) in WFA/C	01/29/02	



Qwest Supplemental Response (01/31/2002):

The following table of documents was revised to add the M&P document, *Qwest CLEC Coordination Center, QCCC Coordinated Installation Checklist, Issue No. 1.3, Revision Date 01/29/2002*, that was not included in the original table. In addition, the revised M&P document, *Qwest CLEC Coordination Center, QCCC Coordinated Installation Checklist, ADSL CCT-I Coordination Checklist, Issue No. 1.4, Revised Date 01/29/2002*, replaces the M&P document, *Qwest CLEC Coordination Center, QCCC Coordinated Installation Checklist, Issue No. 1.4, Revised Date 01/29/2002*. All documents listed on the original and revised tables were provided to KPMG through a DR associated with this Exception on January 30, 2002. The revised M&P, as previously noted, will be sent as a DR associated with this Exception.

DOCUMENT	Revision Date	Issue No.
Local Network Operations Unbundled Digital Signal Level 1 (DS1) Capable Loop Field Technician Checklist	01/29/02	3
Local Network Operations Enhanced Extended Loop (EEL) – Version 4.0 Field Technician Checklist	01/29/02	4
Local Network Operations Field Technician Checklist DS1 HDSL Technology	01/29/02	6
Local Network Operations Field Technician Checklist for DS1 Repeated T1 Technology	01/29/02	5
Designed Services DS 98-0001-C – Version 3.0 Unbundled Loop Methods and Procedures Unbundled Loop—DS I&M Methods and Procedures	01/29/02	
Network Complex/Designed Services DS1 Enhanced Extended Loop (EEL-P) Job Aid Customer Communication Technician – Implementation DS1 EEL Provisioning DS1 Enhanced Extended Loop (EEL_P) DS1 EEL – Provisioning CUSTOMER COMMUNICATIONS TECHNICIAN – IMPLEMENTATION GROUP (TEST AND TURN-UP TECHNICIANS)	01/30/02	6
T1 Checklist Coordinator/Implementor	01/29/02	2.1
(Qwest CLEC Coordination Center QCCC Coordinated Installation Checklist) Revised M&P Title (to be resent on 01/31/02) Qwest CLEC Coordination Center QCCC Coordinated Installation Checklist ADSL CCT-I Coordinated Checklist	01/29/02	1.4
Network Complex Services Unbundled Loop-QCCC Methods and Procedure Coordinators/Implementors Job Aid	01/29/02	40
Network Complex Services Unbundled Loop-Core Test Requirements Unbundled Loop Field DD Test Requirements Core Tests to be performed on all Unbundled Loops	01/29/02	6
BGS/CXR/ICS Service Delivery and Service Assurance Process Bulletin Unbundled Loop Pre-survey PB 00126-6	08/15/00	6
Network Complex Services Unbundled Loop-Basic Methods and Procedures Implementors Job Aid	01/29/02	31



Qwest CLEC Coordination Center QCCC Coordinated Installation Checklist	01/29/02	1.3
Central Office (CO) Job Aid Doc No. CO-CL-09-0002	01/29/02	3
6.0 PTD Event Date 6.03 Document Test Results in WFA/C, OSSCN (Circuit Notes) in WFA/C	01/29/02	

Qwest Supplemental Response (02/04/2002):

Qwest indicated in the 1/31/02 response that the document, Qwest CLEC Coordination Center, QCCC Coordinated Installation Checklist, ADSL CCT-I Coordination Checklist, Issue No. 1.4, Revised Date 01/29/2002, would be provided to via the data request process. The document was issued on 1/31/02 via data request # TI -789S2 (EXP3104).

Additionally, Qwest committed in the 1/30/02 response to provide the revised M&Ps to all Central Office and Field Technicians by February 1, 2002. As of 2/1/02, the documents are available to all Central Office and Field Technicians on Qwest’s internal web site.

Qwest Supplemental Response (02/19/2002):

Qwest is providing clarification for the following documents.

Network Complex Services
Unbundled Loop – Basic Methods and Procedures
IMPLEMENTORS Job Aid
Effective Date 01-98
Revision Date & Number: 01-29-02, #31

Network Complex Services
Unbundled Loop – QCCC Methods and Procedure
Coordinators/Implementors Job Aid
Effective Date: 04-01
Revision Date & Number: 01-29-02, #40

Designed Services DS 98-0001-C – Version 3.0
Unbundled Loop Methods and Procedures
UNBUNDLED LOOP - DS I&M METHODS AND PROCEDURES
Revised January 29, 2002

TI Checklist
Coordinator/Implementor
Revised: January 29, 2002; Version 2.1

Local Network Operations
Field Technician Checklist for DS1
Repeated T1 Technology
Revised 01/29/02 Issue 5

Local Network Operations
Field Technician Checklist for DS1
HDSL Technology
Revised 1/29/02, Issue 6



Network Complex/Designed Services
DS1 Enhanced Extended Loop (EEL-P) Job Aid
Customer Communication Technician – Implementation
DS1 EEL Provisioning
Effective Date: August 2001
Revision Date/Number: January 30, 2002, #6.
DS1 ENHANCED EXTENDED LOOP (EEL-P),
DS1 EEL – PROVISIONING, CUSTOMER COMMUNICATION TECHNICIAN – IMPLEMENTATION
GROUP (TEST AND TURN UP TECHNICIANS)

Local Network Operations
Enhanced Extended Loop (EEL) – Version 4.0
Field Technician Checklist
Revised date: 1/29/02

Local Network Operations
Unbundled Digital Signal Level 1 (DS1) Capable Loop
Field Technician Checklist
Revised date: 01/29/02 Issue 3

Qwest CLEC Coordination Center
QCCC Coordinated Installation Checklist
ADSL CCT-I Coordinated Checklist
Revised: January 29, 2002 Version 1.4

Network Complex Services
Unbundled Loop-Core Test Requirements
Effective Date: 01-02
Revision Date & Number: 01-29-02, #6
Unbundled Loop Field DD Test Requirements
Core Tests to be performed on all Unbundled Loops

BGS/CXR/ICS
Service Delivery and Service Assurance
Process Bulletin
Unbundled Loop Pre-survey
Tracking No. PB 00126-6
Effective Date: August 15, 2000
-6 update 1-29-02

Qwest CLEC Coordination Center
QCCC Coordinated Installation Checklist
Revised: January 29, 2002 Version 1.3

Central Office (CO) Job Aid Doc No. CO-CL-09-0002
CORE TESTS TO BE PERFORMED ON ALL UNBUNDLED LOOPS
Document No. / Rev. CO-CL-09-0002/Rev 3
Effective Date: 01/31/2002 Revision Date: 01/29/2002

6.0 PTD Event Date 6.03 Document Test Results in WFA/C, OSSCN (Circuit Notes) in WFA/C
Created 06/26/97 Modified 01/29/2002

Attachment(s):