

**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

**In Re: Investigation into Pricing)
Unbundled Network Elements)**

DOCKET 990649B-TP

**DIRECT TESTIMONY OF
LARRY RICHTER
ON BEHALF OF
VERIZON FLORIDA INC**

SUBJECT: COST SUPPORT FOR PROPOSED NON-RECURRING CHARGES

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TABLE OF CONTENTS

I. INTRODUCTION.....	1
II. WHOLESALE COSTS IN SUPPORT OF NON-RECURRING CHARGES	3
III. COST STUDY OVERVIEW.....	7
IV. TYPES OF UNE ORDERS	12
V. UNE COSTS THAT SUPPORT NRCS	13
VI. COSTS FOR DARK FIBER.....	16
VII. COSTS FOR SUB-LOOP UNBUNDLING	22
VIII. COSTS FOR EELS	25
IX. COSTS FOR UNE-P.....	27
X. COSTS FOR LOOP CONDITIONING	29
XI. DEDICATED TRANSPORT AND SS7 ACCESS	31
XII. HOUSE AND RISER.....	32
XIII. LINE AND STATION TRANSFER	34
XIV. MECHANIZED LOOP PRE-QUALIFICATION	37
XV. CONCLUSION	40

1
2
3
4
5
6
7
8
9
10
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12
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14
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DIRECT TESTIMONY OF LARRY RICHTER

I. INTRODUCTION

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. My name is Larry Richter, and my business address is 600 Hidden Ridge, Irving, Texas.

Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. I am employed by Verizon Services Group as Consultant – Witness. I am testifying here on behalf of Verizon Florida, Inc. (Verizon).

Q. WHAT ARE YOUR RESPONSIBILITIES IN THIS CAPACITY?

A. I have the witness responsibility for supporting Verizon's non-recurring wholesale, retail and access cost studies for all states in which the former GTE operated. In this role, I work directly with the costing group who prepares the cost study for filing.

Q. WHAT IS YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE IN TELECOMMUNICATIONS?

A. I received a Bachelors Degree in Business Administration from Northwood University, in Cedar Hill, Texas in 1995. I have been employed by Verizon for over 32 years. I joined General Telephone Company of California in 1968 working in the Outside Plant Installation, Repair, and Maintenance Department. I transferred to General Telephone Company of Southwest in 1973 and remained in

1 the same type job capacity. In 1975, I was promoted to management,
2 where I was primarily associated with Network Operations in varying
3 capacities, each with increasing responsibilities. These positions
4 included First Line Supervisor, Area Support, and Service and
5 Facilities Management. In 1987, I became manager of the DART
6 (Dispatch, Assignment, Repair, and Test) Center for one of the largest
7 service centers in Texas. In 1988, I accepted a position in the Finance
8 group, providing Business Analysis, Service Results, and Budget
9 creation and tracking for Network Operations and Engineering and
10 Construction work groups. In 1996, I moved to a different Finance
11 position, responsible for Capital Budget creation and tracking for the
12 Company's Texas/New Mexico Region. In 1998, I accepted a position
13 at GTE Service Corporation in the costing group responsible for cost
14 study development for retail, wholesale, access, and collocation
15 services. In 2000, I assumed the position of Staff Manager – Service
16 Costs, with primary responsibility for testifying before state
17 commissions in support of Verizon's cost studies.

18

19 **Q. HAVE YOU TESTIFIED PREVIOUSLY BEFORE PUBLIC UTILITY**
20 **COMMISSIONS?**

21 A. Yes. I have testified before the California, Washington, Illinois, North
22 Carolina, Michigan, Ohio, and Hawaii public utilities commissions.

23

24 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

25 A. I will present Verizon's study of the non-recurring costs caused by

1 Competitive Local Exchange Carriers (CLECs) when they order
2 unbundled network elements (UNEs) from Verizon. I discuss the
3 processes necessary to order, provision, and connect CLEC orders.

4

5 **Q. ARE YOU SPONSORING ANY EXHIBITS?**

6 A. Yes. I am sponsoring Verizon's Non-Recurring Study. This study
7 provides Verizon's detailed costs for processing UNE orders for
8 CLECs. Mr. Bert Steele addresses Verizon's proposed non recurring
9 rates in his testimony, while I address the underlying costs.

10

11 **II. WHOLESALE COSTS IN SUPPORT OF NON-RECURRING CHARGES**

12

13 **Q. WHAT COSTS SUPPORT NON-RECURRING CHARGES?**

14 A. Costs that support non-recurring charges are those incurred in
15 processing and provisioning CLEC requests. For example, when a
16 CLEC orders a two-wire loop, it pays for the cost of the loop through a
17 monthly recurring charge (MRC). This MRC, however, does not reflect
18 the costs an Incumbent Local Exchange Carrier (ILEC) incurs in
19 processing and provisioning the CLEC's request--for example, the
20 labor costs associated with Verizon's customer service representatives
21 and the field technician who makes electrical connections. These costs
22 are captured separately from the MRC and recovered through non-
23 recurring charges (NRC).

24

25

1 Q. PLEASE PROVIDE A SPECIFIC EXAMPLE OF HOW NON-
2 RECURRING COSTS ARE INCURRED.

3 A. Assume a CLEC operating in Florida wants to order a two-wire loop. If
4 the CLEC submits its order electronically, it will be delivered to one of
5 Verizon's National Market Centers (NMCs). A Verizon customer
6 service representative – who works exclusively on wholesale and UNE
7 orders - will determine the complexity of the order, as different types of
8 orders require different types of activities that create different costs.
9 Generally, the more complex the order, the greater the costs.

10

11 Returning to our example, let's assume the CLEC's two-wire loop order
12 (1) is a new order, (2) does not require any network design or
13 engineering activities, (3) can be provisioned using standard network
14 components maintained in inventory, and (4) does not require any
15 special instructions for switch translation or routing. After evaluating
16 the order, the customer service representative will designate the two-
17 wire loop example used here as an "Exchange-Basic" order, which is
18 the simplest type of UNE cost category. (As I discuss later in my
19 testimony, Verizon places each UNE order into one of four categories:
20 (1) Exchange – Basic; (2) Exchange – Complex; (3) Special /
21 Advanced – Basic; and (4) Special / Advanced – Complex. Each of
22 these categories has a distinct provisioning process and associated
23 non-recurring costs.)

24

25 The order will flow through various Verizon work groups for

1 provisioning, including Verizon's Assignment Provisioning Centers
2 (APCs), Business Response Provisioning Centers (BRPCs), Central
3 Office (CO) Technicians, Field Technicians, and other specialized
4 groups. As Mr. Steele explains, the CLEC that initiated this order will
5 be charged the NRC to cover the costs incurred by these work groups.

6
7 In summary, when a CLEC places an order for a UNE, Verizon incurs
8 non-recurring costs to provide the UNE. These non-recurring costs
9 reflect the ordering, provisioning, and related activities required to
10 process the CLEC's order and put that UNE in service. The monthly
11 recurring and non-recurring costs are separate costs and reflect
12 different investments and expenses.

13
14 **Q. HOW DID VERIZON CALCULATE ITS COSTS THAT ARE**
15 **RECOVERED BY NON-RECURRING CHARGES FOR UNE**
16 **ORDERING?**

17 A. Verizon calculated its ordering costs in two steps. First, Verizon
18 identified the activities that are incurred when a CLEC places an order.
19 Verizon determined these costs by studying each activity needed to
20 fulfill a particular CLEC request. Returning to the example above -- an
21 order for a two-wire loop -- to calculate the appropriate variable costs,
22 Verizon studied the time it takes for a NMC representative to (1)
23 access the order, (2) review it, and (3) apply all the appropriate MRCs
24 and NRCs and (4) complete the order into Verizon's ordering system.
25 The studies for the Exchange-Basic loop are based on a sampling of

1 observations of actual customer service representative activities. (This
2 sampling technique produces a statistical confidence level of +/- 5%).
3 Verizon developed its costs based on these studies, and based on the
4 actual loaded labor rate (LLR) in effect for the NMC which handles
5 Florida orders. Again, different categories of UNEs have different non-
6 recurring costs – generally, the more complex the order, the greater
7 the non-recurring costs. The assignment of costs to the appropriate
8 category of UNE is based on established principles of cost causation
9 and ensures that CLECs bear the costs they cause.

10

11 Second, Verizon developed separate non-recurring costs to capture
12 the significant costs incurred in fulfilling and provisioning CLEC orders.
13 These include the cost of the computers used by the customer service
14 representatives and the cost of the land and buildings for the NMCs,
15 where the orders are sent to be processed. Verizon calls these the
16 “NMC Shared/Fixed Costs,” which total \$18.49 million per year for all
17 of Verizon-West. (Verizon-West refers to the former GTE territory prior
18 to the BA/GTE merger) The support for these costs is set forth in
19 Verizon’s Non-Recurring study. Verizon witness Steele explains how
20 Verizon proposes to recover the NMC shared/fixed costs; my
21 testimony supports the total annual shared/fixed cost of \$18.499
22 million.

23

24 **Q. HOW DID VERIZON CALCULATE ASSIGNMENT PROVISIONING**
25 **CENTER (APC) AND BUSINESS RESPONSE PROVISIONING**

1 **CENTER (BRPC) COSTS?**

2 A. Verizon's cost team documented the provisioning process flows for the
3 APC and BRPC. The cost team then utilized various work center
4 reports to establish the hours expended for each activity required to
5 provision each type of order, and the volume of activities handled for
6 the hours expended. This information produced a time per activity
7 calculation. The activity times were multiplied by the LLR for the APC
8 and BRPC personnel to develop the costs. As I mentioned earlier,
9 there are four basic categories of UNEs.

10

11 **Q. HOW DID VERIZON CALCULATE CENTRAL OFFICE (CO) AND**
12 **FIELD TECHNICIAN COSTS?**

13 A. Verizon's cost team documented the installation process flows for the
14 central office and outside plant activities. The cost team then utilized
15 time and motion studies, system reports, order volumes, workgroup
16 hours and Subject Matter Expert (SME) estimates to establish the
17 hours expended for each activity required to install each type of order.
18 The activity times were multiplied by the LLR for the central office and
19 field personnel to develop the costs. These costs are grouped into the
20 four basic categories of UNEs.

21

22 **III. COST STUDY OVERVIEW**

23

24 **Q. WHAT COST MODEL PRINCIPLES DID VERIZON EMPLOY IN**
25 **COMPLETING ITS COST STUDIES?**

1 A. Verizon's cost studies are based on long-run cost principles. The long-
2 run cost of a service is the amount by which a company's total costs
3 will increase as a result of offering that service. Long run refers to a
4 situation where capital and labor costs expected to be incurred by
5 Verizon are captured, to the extent possible, in the cost study.
6 Verizon's non-recurring cost methodology is:

- 7 (1) forward-looking;
- 8 (2) least-cost, based on planned systems and process
9 enhancements and corresponding efficiencies;
- 10 (3) long-run;
- 11 (4) based on incremental costs; and
- 12 (5) consistent with the principles of cost causation.

13

14 In addition, as Messrs. Trimble and Steele explain, Verizon's cost
15 studies comply with the FCC's total element long-run incremental cost
16 (TELRIC) methodology, even though Verizon has never agreed with
17 this approach, and even though it has now been invalidated by the
18 Eighth Circuit Court. Verizon reserves the right to revise its cost
19 studies to the extent necessary when the issue of appropriate cost
20 methodology is finally settled at the federal level.

21

22 **Q. WHAT ACTIVITIES ARE ADDRESSED IN THE COST STUDY?**

23 A. The activities are pre-ordering, ordering, provisioning and field work
24 necessary to provide UNEs and resold services to CLECs. They are
25 more fully described in Verizon's cost study.

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Q. HOW WERE THE ACTIVITIES TO BE STUDIED DETERMINED?

A. As explained in our cost study, the activities to be studied were determined based on a work flow analysis that organized all of the work activities, by work group, performed to satisfy a CLEC's request for service.

Q. DOES VERIZON'S COST STUDY REFLECT THE IMPLEMENTATION OF ELECTRONIC GATEWAYS FOR LSR PROCESSING?

A. Yes. Verizon's operating support systems (OSS) solutions are industry-standard and in full compliance with the Act in providing non-discriminatory access to OSS functionalities. The Verizon CLEC Support Website (<http://www.wwwclecsupport.com>) provides information on Verizon-West's Secure Integrated Gateway System (SIGS) and Wholesale Internet Service Engine (WISE). CLECs can input LSRs directly into SIGs through a mechanized ordering system at their location or (if they do not have their own ordering systems) through WISE via the Internet, which transmits LSRs into SIGs.

Q. DOES VERIZON'S NON-RECURRING COST STUDY SEPARATE MANUAL AND ELECTRONIC COSTS FOR ORDER RECEIPT?

A. Yes. Verizon identified the costs for orders received both manually and electronically since CLECs may submit orders by either option.

1

2 **Q. DOES THE STUDY REFLECT ENHANCEMENTS THAT WILL**
3 **AFFECT SYSTEMS AND PROCESSES IN A FORWARD-LOOKING**
4 **ENVIRONMENT?**

5 A. Yes. Verizon's study accommodates the various ordering processes.
6 It includes costs based upon manual LSR receipt, which apply when
7 the CLEC does not utilize one of the mechanized options available.
8 The time for handling the manual requests is in addition to the semi-
9 mechanized processing time. Manual costs are only incurred when the
10 CLEC is unwilling or unable to utilize a mechanized option to transmit
11 LSRs to the NMC. In addition, Verizon's ordering process reflects
12 adjustments for flow-through and expected efficiency gains, which are
13 applicable to both the manual and semi-mechanized ordering
14 processes.

15

16 To date, Verizon has provided CLECs with the ability to query in an
17 electronic format all information necessary to process a pre-order
18 request, as well as to receive from Verizon any responses, error
19 messages, or selection information necessary to complete each
20 request. Through WISE, the CLECs have the ability to pre-qualify
21 loops that can support DSL service. This is accomplished through an
22 internet solution that conforms with the Ordering and Billing Forum
23 (OBF) standards and includes information on bridged tap location
24 (length and quantity), the presence of load coils, loop length, the
25 presence of pair gain devices and additional miscellaneous

1 information.

2

3 Verizon utilizes SIGS, the ordering interface, to access data from the
4 Verizon ordering system or to transmit orders electronically for
5 processing. Today, approximately 40% of UNE Exchange-Basic
6 orders are mechanically generated without human intervention in
7 response to electronic orders received from the CLEC. This is
8 otherwise known as simple order flow through. Verizon has projected
9 that UNEs will achieve the same level of flow through in the semi-
10 mechanized environment. Verizon has also projected productivity
11 improvements of 15% in the NMC due to planned projects to enhance
12 OSS functionalities. The costs for the NMC personnel have been
13 adjusted to reflect these enhancements.

14

15 **Q. WOULD IT BE APPROPRIATE FOR VERIZON TO PERFORM A**
16 **STUDY IN WHICH ALL ORDERS ARE ELECTRONICALLY**
17 **PROVISIONED?**

18 A. No. Verizon's non-recurring cost study does not assume that all
19 provisioning will be electronic because neither Verizon nor any other
20 ILEC have systems that can provide 100% automatic processing end-
21 to-end for all telecommunications requests. Nor is there any evidence
22 that this will change. While many basic ordering functions can be
23 processed mechanically, certain activities for all types of orders will
24 remain manual because mechanization costs for every activity would
25 create a situation where costs for mechanization exceed manual labor

1 savings.

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IV. TYPES OF UNE ORDERS

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5 **Q. PLEASE DESCRIBE THE UNE ORDER TYPES.**

6 **A.** There are five UNE order types processed through LSRs. Following
7 are descriptions of each UNE order type:

- 8 • **New** - A New order for local wholesale UNE establishes a UNE or
9 combination for the first time or adds additional lines or telephone
10 numbers at an existing CLEC customer's location.
- 11 • **Change** - A Change order applies when the CLEC requests
12 changes in central office switch features for an existing local
13 wholesale UNE; this can be either a "Change feature" or a
14 "Change Switch Feature Group" type order. A Change order also
15 applies when the CLEC requests a change in Central Office
16 Connection (the cross-connect between the CLEC's cage terminal
17 block and Verizon's terminal block(s) on the Main Distribution
18 Frame (MDF)) or changes in the field related to subloop element.
- 19 • **Disconnect** - A Disconnect order for local wholesale UNE applies
20 when the CLEC requests that all or a portion of a local wholesale
21 UNE or combination be removed.
- 22 • **Record** – A Record order applies when the CLEC changes existing
23 records without changing the UNE itself. An example of a record
24 order is a change of the billing address.
- 25 • **Migration** – A Migration order applies when the CLEC requests

1 conversion of an existing UNE combination: Retail to UNE-P and
2 Resale to UNE-P. When the service is migrated from retail or
3 Resale to the UNE-P, Verizon must change the switch translations
4 to measured service.

- 5 • **Migration as Is** – A Migration as Is order applies when the
6 existing end user changes service from Verizon to a CLEC, or
7 from a CLEC to another CLEC, and the end user keeps the
8 same service. This type of order requires only the ordering
9 function and APC - activity; it does not require central office or
10 field installation activities. “Migration as Is” is applicable to
11 Exchange Basic and Exchange Complex products.
- 12 • **Migration as Is +/-** – A Migration as Is +/- order type applies
13 when the end-user asks to add or delete a vertical feature from
14 his existing service, thus requiring the central office switch to be
15 updated for the requested feature change.
- 16 • **Migration as Specified** – A Migration as Specified order occurs
17 when the end user converts an existing Verizon retail service
18 (at a single location) or another provider’s service to UNEs
19 provided by a different CLEC. The CLEC specifies the UNE or
20 UNE combinations to be migrated.

21

22 **V. UNE COSTS THAT SUPPORT NRCS**

23

24 **Q. PLEASE DESCRIBE COST CATEGORIES OF UNE ORDERS.**

25 A. Verizon employs a process approach, rather than a product basis

1 approach, for developing non-recurring costs. As I noted, there are
2 four categories of UNE orders: (1) Exchange – Basic; (2) Exchange –
3 Complex; (3) Special / Advanced – Basic; and (4) Special / Advanced
4 – Complex. Each of these categories has a distinct provisioning
5 process and associated non-recurring costs. For each category,
6 Verizon has identified costs and associated activities required to pre-
7 order, order, provision and update records for the UNEs. This
8 approach allows Verizon to apply costs for any UNE request based
9 upon the workflow of one of the four categories. In this way, Verizon is
10 able to develop costs by mapping the product to the applicable process
11 to determine the costs, rather than incurring the time and
12 administrative expense to develop costs on a UNE-by-UNE basis.

13

14 Whether a UNE fits within an Exchange or Special/Advanced category
15 depends on whether or not a UNE requires design and/or engineering.
16 The Exchange category does not require design or engineering. The
17 Special/Advanced category requires design and/or engineering work
18 based on variables specific to the order placed by the CLEC.

19

20 A Basic or Complex category designation will also apply to each order.
21 Basic requests can be provisioned using standard network
22 components maintained in inventory without specialized instructions for
23 switch translations, routing, and service arrangements. Complex
24 requests require special instructions for the provisioning of the UNE to
25 meet the customer's needs. The additional time associated with these

1 requirements drives the costs for these requests.

2

3 **Q. ARE COSTS DEVELOPED FOR OTHER CLEC REQUESTS OR**
4 **REQUIREMENTS?**

5 A. Yes. Due to additional activities that may be required to fulfill CLEC
6 requests, Verizon has developed costs for the following services:

7 (1) CLEC Account Establishment – Verizon establishes the CLEC
8 account in each state billing system in which that CLEC orders UNEs.
9 The NMC receives the CLEC account profile from the CLEC's account
10 manager, reviews it for completeness and then enters the CLEC profile
11 information and creates summary bill masters in Verizon-West's
12 National Order Collection Vehicle (NOCV), which is Verizon-West's
13 order processing system. Once the CLEC account has been
14 established for a state, the CLEC may submit a local service request
15 ("LSR") for processing;

16 (2) Coordinated Conversion – A coordinated conversion may be
17 requested by the CLEC if it wants to establish a specific appointment
18 for the completion of the service order, and wants Verizon to contact it
19 for authorization to proceed prior to beginning work, as well as after
20 work is complete. This service includes only the additional costs
21 caused by Coordinated Conversion and is in addition to the cost of the
22 underlying LSR;

23 (3) Hot Cut Coordinated Conversion – This service is the
24 coordinated conversion mentioned above with the added feature that
25 the CLEC, the Verizon coordinator and the Verizon technicians remain

1 on a conference call for the duration of the service order completion
2 process. Each step of the process is completed sequentially following
3 authorization from the CLEC. Since there is no way for Verizon to
4 estimate or control the amount of time required for a Hot Cut
5 Coordinated Conversion, the cost developed is for a conversion lasting
6 up to one hour. Additional costs will be incurred for each quarter hour
7 thereafter at Verizon's loaded labor rates for the Verizon employees
8 involved;

9 (4) Expedite – An Expedite refers to a request by a CLEC to
10 advance the completion of the LSR earlier than the next standard due
11 date that is normally available. Instead of relying on the automated
12 system for work scheduling, an Expedite requires a manual
13 appointment-setting process in which NMC personnel must contact the
14 Division Resource Management group to determine if the earlier
15 completion interval is feasible. In addition to the costs shown in this
16 study, overtime charges may apply if the work is done outside of the
17 normal installation work time periods, or if other work is moved outside
18 of the normal installation work time periods to accommodate the
19 CLEC's expedite request.

20

21 VI. COSTS FOR DARK FIBER

22

23 **Q. WHAT COSTS DOES VERIZON INCUR FOR PROCESSING CLEC**
24 **REQUESTS FOR DARK FIBER?**

25 A. As Verizon's cost study reflects, it will incur costs for pre-ordering,

1 ordering, provisioning, central office and field installation activities
2 associated with CLEC dark fiber requests.

3

4 **Q. PLEASE DESCRIBE THE PRE-ORDERING ACTIVITIES FOR DARK**
5 **FIBER.**

6 A. In the pre-ordering stage, Verizon must determine whether dark fiber is
7 available on the specific network segment requested by the CLEC. A
8 CLEC's request for dark fiber will fall into one of four categories,
9 according to the portion of Verizon's network in which the fiber may lie.
10 These categories are 1) inter-office facilities (IOF); 2) unbundled loop;
11 3) sub-loop feeder; and 4) sub-loop distribution.

12

13 A pre-ordering request is sent via an Access Service Request (ASR)
14 form, which I will discuss in more detail later in my testimony. This
15 form goes through Verizon-West's National Access Contact Center
16 (NACC), which is the single-point of contact for access services in
17 place today in Verizon-West for processing inter-exchange carrier
18 (IXC) requests for interstate and intrastate access, both switched and
19 special. I will describe the functions of the NACC in detail in the
20 ordering section of my testimony.

21

22 The NACC reviews the pre-ordering request and forwards it to the
23 Access Design and Network Design groups located in Verizon-West's
24 Engineering departments. These groups determine the feasibility and
25 availability of dark fiber for a particular network segment requested by

1 a CLEC by accessing inventory records and performing verification
2 steps.

3

4 **Q. HOW WERE COSTS DEVELOPED FOR PRE-ORDERING**
5 **ACTIVITIES COMPLETED BY THE NACC AND ENGINEERING**
6 **GROUPS?**

7 A. Subject matter experts who have direct experience in these activities in
8 the NACC, Engineering group, and headquarters staff support
9 developed the work times associated with each of the activities
10 performed for pre-ordering dark fiber. The work times were multiplied
11 by the loaded labor rate (LLR) for each work group involved to develop
12 the costs.

13

14 **Q. PLEASE DESCRIBE ORDERING ACTIVITIES ASSOCIATED WITH**
15 **DARK FIBER REQUESTS.**

16 A. As previously discussed, the CLEC will place its order for dark fiber
17 through the ASR process. This process is somewhat different from the
18 ordering process I described for other requests. For example, the
19 CLEC would place its order for UNEs by means of a LSR submitted to
20 Verizon-West's NMC. A dark fiber order, however, will be placed
21 through Verizon-West's NACC and be processed as an ASR. The
22 NACC's processes and systems for IXCs are closely aligned with the
23 ones that will be required for processing dark fiber requests. For
24 example, dark fiber orders are generally associated with the CLEC's
25 infrastructure and facilities needed to support their network design for

1 serving multiple customers, whereas UNE unbundling is associated
2 with the local loop for a CLEC end user.

3

4 **Q. PLEASE DESCRIBE THE NACC ORDERING PROCESS FOR DARK**
5 **FIBER REQUESTS FROM CLECS.**

6 A. The NACC is located in Durham, North Carolina, and staffed by
7 Service Consultants who interface with customers either manually or
8 electronically, based on how the CLEC submits the Access Service
9 Request ("ASR"). They are the same Service Consultants responsible
10 for processing the IXC ASRs mentioned earlier. The NACC has
11 existed for approximately 20 years in Verizon-West and has a great
12 deal of experience in processing IXC requests for both switched and
13 special access services. Once the NACC receives the ASR, it is
14 checked for completeness and accuracy. The NACC then releases the
15 order into Verizon-West's access order processing system, which
16 routes it to the appropriate provisioning and central office/field
17 installation groups involved with completing Florida orders.

18

19 **Q. HOW WERE THE COSTS DEVELOPED FOR ASR ORDERING**
20 **ACTIVITIES FOR DARK FIBER?**

21 A. Verizon-West, in conjunction with Arthur Andersen LLP, conducted
22 time and motion studies of the activities performed by the Service
23 Consultants in the NACC to establish the work time associated with the
24 various types of orders handled there. Although dark fiber orders *per*
25 *se* were not studied because the offering did not exist at that time, dark

1 fiber orders are processed in the same manner as dedicated non-
2 switched transport orders. To derive the costs associated with dark
3 fiber ordering, Verizon has therefore multiplied the work time for the
4 dedicated non-switched transport order by the LLR for the NACC
5 Service Consultants.

6

7 **Q. WHAT ARE THE PROVISIONING ACTIVITIES ASSOCIATED WITH**
8 **DARK FIBER REQUESTS?**

9 A. Dark Fiber ASRs are provisioned through Verizon-West's Business
10 Response Provisioning Centers (BRPCs) located in Ft. Wayne,
11 Indiana and Tampa, Florida. The BRPC has Plant Control Office
12 (PCO) and design/engineering responsibilities for dark fiber UNEs.
13 The BRPC receives the order from the NACC, verifies that the order is
14 entered into the facility administration system, which is called Telecom
15 Business Solutions (TBS), checks for accuracy and completeness, and
16 enters a distribution code into TBS to route the order to the required
17 work groups. The BRPC must access facility records in its inventory
18 database, change the records to identify the network configuration
19 requested by the CLEC, and create updated circuit and design layout
20 reports (CLRs/DLRs).

21

22 **Q. HOW WERE COSTS DEVELOPED FOR PROVISIONING**
23 **ACTIVITIES COMPLETED BY THE BRPC?**

24 A. Cost managers used data from the TBS database to determine the
25 number and type of orders or lines worked by each group in the BRPC.

1 The BRPC productive hours were used to develop the time per ASR.
2 This work time was multiplied by the loaded labor rate ("LLR") for the
3 BRPC to develop the cost.

4

5 **Q. PLEASE DISCUSS THE CENTRAL OFFICE AND FIELD WORK**
6 **ACTIVITIES ASSOCIATED WITH DARK FIBER REQUESTS.**

7 A. As discussed earlier, there are four types of requests processed via
8 the ASR process that CLECs may submit for dark fiber. Following are
9 the activities required for each type:

10 IOF – Requires central office jumper connection and
11 disconnection work, but no fieldwork.

12 Unbundled Loop – Central office jumper connection and
13 disconnection work is required. An outside plant technician
14 must be dispatched to complete the physical connection to the
15 CLEC termination point.

16 Subloop Feeder – Central office jumper connection and
17 disconnection work is required. An outside plant technician
18 must be dispatched to complete the physical connection to the
19 CLEC termination point.

20 Subloop Distribution – No central office work is required. An
21 outside plant technician must be dispatched to complete the
22 physical connection to the CLEC termination point.

23

24 **Q. HOW WERE THE CENTRAL OFFICE AND FIELDWORK COSTS**
25 **DEVELOPED FOR DARK FIBER?**

1 A. For central office costs, “jumper-running” studies were conducted to
2 develop the time to install or remove one jumper cable. The time per
3 jumper was multiplied by the central office technician LLR to develop
4 the cost per jumper activity. Costs are based on the number of
5 jumpers required for each of the activities discussed above.

6
7 Outside plant field work time is based on a “drive time” study that
8 provides the average time to reach the point of interconnection and
9 place a fiber jumper. Costs were calculated by multiplying the time for
10 the outside plant activity by the LLR for the outside plant technician.

11

12

VII. COSTS FOR SUB-LOOP UNBUNDLING

13

14 **Q. WHAT TYPES OF COSTS WILL VERIZON INCUR FOR**
15 **PROCESSING CLEC REQUESTS FOR SUBLOOP UNBUNDLING?**

16 A. Verizon will incur costs for ordering, provisioning, and central office
17 and field installation activities associated with CLEC sub-loop
18 unbundling requests. These costs may be found in Verizon’s cost
19 study.

20

21 **Q. PLEASE DESCRIBE THE ORDERING ACTIVITIES ASSOCIATED**
22 **WITH SUB-LOOP REQUESTS.**

23 A. Requests for sub-loops are submitted by CLECs to Verizon-West’s
24 NMC by means of the LSR process I described earlier. The NMC
25 receives the LSR, checks it for accuracy, and applies all applicable

1 NRCs and MRCs. The NMC releases the order into Verizon's order
2 processing system, which then routes it to the appropriate provisioning
3 and central office/field installation groups involved in completing
4 Florida orders.

5

6 **Q. HOW DID VERIZON DEVELOP THE COSTS ASSOCIATED WITH**
7 **ORDERING ACTIVITIES FOR SUB-LOOP UNBUNDLING?**

8 A. To determine the costs for sub-loop ordering, Verizon relied upon the
9 exchange-basic ordering process, which is initiated through an LSR.
10 Since the steps that are required to process a request for a sub-loop
11 element are the same as those required to process a request for the
12 exchange-basic element, this ordering process was used as a proxy
13 for sub-loop ordering.

14

15 **Q. PLEASE DESCRIBE THE PROVISIONING ACTIVITIES**
16 **ASSOCIATED WITH SUB-LOOP REQUESTS.**

17 A. There are four categories of requests for sub-loops: 1) main
18 distribution frame (MDF) connection; 2) feeder connection; 3)
19 distribution connection; and 4) serving terminal connection (or "loop
20 drop"). These categories correspond to different portions of Verizon's
21 network that CLECs can request on an unbundled basis.

22

23 For each of these requests, Verizon's Assignment Provisioning Center
24 (APC) must access facility records in its inventory database and
25 change the records to identify the network configuration requested by

1 the CLEC.

2

3 **Q. HOW WERE COSTS DEVELOPED FOR PROVISIONING**
4 **ACTIVITIES COMPLETED BY THE APC?**

5 A. Verizon tracks activities based on the number of times the APC
6 accesses or “touches” an order to provision it. The costs are based on
7 the number of touches per order. This activity measure, for various
8 order types, was collected by the cost managers from Verizon-West’s
9 NOCV system. The total of productive minutes of the APC for order
10 touches is divided by the total number of touches to create the minutes
11 per touch calculation. The cost per touch is calculated by multiplying
12 the minutes per touch by the loaded labor rate for the APC.

13

14 **Q. PLEASE DISCUSS THE CENTRAL OFFICE AND FIELDWORK**
15 **ACTIVITIES ASSOCIATED WITH SUB-LOOP REQUESTS.**

16 A. As discussed earlier, there are four types of requests CLECs may
17 submit for sub-loops. Central office and field work activities vary with
18 the type of request. MDF and sub-loop feeder requests require central
19 office jumper connection and disconnection. Sub-loop feeder and
20 distribution requests require an outside plant technician to complete
21 the physical connection to the CLEC facility. Fieldwork will also be
22 required for some MDF requests. Serving terminal connection
23 requests require an outside plant technician dispatch, but no central
24 office work.

25

1 Q. HOW WERE THE CENTRAL OFFICE AND FIELDWORK COSTS
2 DEVELOPED FOR SUB-LOOP UNBUNDLING?

3 A. For central office costs, jumper-running studies were conducted to
4 develop the time to place or remove one jumper. The time per jumper
5 was multiplied by the central office technician's LLR to develop the
6 cost per jumper. Costs are based on the number of jumpers required
7 for each of the categories discussed above.

8
9 Outside plant fieldwork time was determined by a special sub-loop
10 unbundling drive time and work activity study. Costs were calculated
11 by multiplying the time for the outside plant activity by the LLR for the
12 outside plant technician.

13

14 VIII. COSTS FOR EELS

15

16 Q. WHAT IS AN EEL (EXTENDED ENHANCED LOOP)?

17 A. An EEL is a combination of dedicated transport, multiplexing (when
18 required) and unbundled loops. An EEL combination allows an IXC
19 with CLEC status to aggregate UNE loops and transport them back to
20 their switch or distant node without having to collocate in a Verizon
21 central office where the loop originates. An ASR is required when
22 requesting this UNE combination.

23

24 Q. WHAT COSTS WILL VERIZON INCUR FOR PROCESSING OF
25 ORDERS SUBMITTED BY CLECS FOR EELS?

1 A. As shown in the cost study, Verizon will incur costs for ordering,
2 provisioning, central office and field connection activities associated
3 with the EEL request.

4
5 **Q. HOW DID VERIZON DETERMINE THE ACTIVITIES AND**
6 **RESULTING NON-RECURRING COSTS ASSOCIATED WITH EEL**
7 **REQUESTS?**

8 A. EELs are processed in the same manner as dark fiber requests.
9 Therefore, my earlier discussion of activities and cost determination for
10 dark fiber requests applies equally to EEL requests.

11

12 **Q. WHAT IS AN EEL MIGRATION?**

13 A. An EEL migration is when a CLEC requests that an existing special
14 access circuit be converted to an EEL with UNE rates.

15

16 **Q. WHAT COSTS WILL VERIZON INCUR FOR PROCESSING OF**
17 **ORDERS SUBMITTED BY CLECS FOR EEL MIGRATION?**

18 A. As shown in the cost study, Verizon will incur costs for ordering and
19 provisioning activities associated with the requests. In order to
20 process an EEL migration request, a disconnect order is issued on the
21 existing circuit and an install order is issued to put the new rates into
22 effect. The two orders are necessary to remove the current billing and
23 circuit identifiers from the system and create a new billing location and
24 circuit identifier. The provisioning activity is necessary to remove the
25 previous circuit identifiers and add the new circuit identifiers. Circuit

1 identifiers (numbers) are used to identify circuits, just as telephone
2 numbers are used to identify voice grade service. Because the
3 circuit is already established, no central office or field connections are
4 necessary.

5

6 **Q. HOW DID VERIZON DETERMINE THE ACTIVITIES AND**
7 **RESULTING NON-RECURRING COSTS ASSOCIATED WITH**
8 **MIGRATION TO EEL REQUESTS?**

9 A. EELs are processed in the same manner as dark fiber requests.
10 Therefore, my earlier discussion of activities and cost determination for
11 dark fiber requests applies equally to EEL requests.

12

13

IX. COSTS FOR UNE-P

14

15 **Q. WHAT COSTS WILL VERIZON INCUR FOR PROCESSING CLEC**
16 **REQUESTS FOR UNE-P?**

17 A. Verizon will incur costs for ordering, provisioning, central office and
18 field installation activities. UNE-P is a migration from retail or resale
19 services; as a result, central office or field installation activities are not
20 required.

21

22 **Q. PLEASE DESCRIBE ORDERING ACTIVITIES ASSOCIATED WITH**
23 **UNE-P REQUESTS.**

24 A. UNE-P ordering applies when the CLEC requests conversion of
25 existing services, retail or resale, to UNE-P. Conversion orders will

1 follow the "Resale Migration" process flow described previously in my
2 testimony. The ordering activities are handled by the NMC via the
3 LSR process, as I also described earlier.

4

5 **Q. HOW WERE COSTS DEVELOPED FOR ORDERING ACTIVITIES**
6 **ASSOCIATED WITH UNE-P REQUESTS FROM CLECS?**

7 A. Work time studies were conducted during August 1999 in the NMC for
8 resale orders; this process is the same as used for UNE-P requests.
9 The work times were multiplied by the LLR for the NMC to develop the
10 costs.

11

12 **Q. WHAT ARE THE PROVISIONING ACTIVITIES ASSOCIATED WITH**
13 **UNE-P REQUESTS?**

14 A. Provisioning activities include facility assignment and switch
15 translations (if required). The APC activities relate to touches required
16 to process a CLEC request.

17

18 **Q. HOW WERE COSTS DEVELOPED FOR PROVISIONING UNE-P**
19 **REQUESTS?**

20 A. Verizon developed the minutes per occurrence based on the number
21 of touches in the APC and applied a factor for the probability of
22 occurrence that an order would require provisioning work. Many UNE-
23 P orders can be provisioned mechanically from network components in
24 inventory. For example, a "Migration as Is" requires only one switch
25 translation to convert to minute of use measurement. However, more

1 complex requests, such as "Migration as Specified" orders, require
2 more manual provisioning due to switch translations, routing
3 instructions, and service arrangements.

4

5 The work time per touch was weighted by the probability of occurrence
6 and multiplied by the LLR for the APC to determine the costs
7 associated with each type of migration order.

8

9 **X. COSTS FOR LOOP CONDITIONING**

10

11 **Q. WHAT IS LOOP CONDITIONING?**

12 A. Loop Conditioning is the removal of load coils and/or bridged taps from
13 the local cable pairs. While load coils and bridged taps are an integral
14 part of the copper, voice grade network, they impede the transmission
15 of digital signals. If the CLEC requires copper pairs without load coil(s)
16 or bridged taps(s) for the digital service it offers its customers, then the
17 CLEC has the option of ordering Loop Conditioning from Verizon.

18

19 **Q. WHAT ARE THE ACTIVITIES REQUIRED FOR LOAD COIL AND**
20 **/OR BRIDGED TAP REMOVAL?**

21 A. When the CLEC requests a conditioned loop for a customer and the
22 cable pair is loaded or has bridged taps, a request is sent to the local
23 engineering department to analyze the network and draft a work order
24 for the pair(s) to be deloaded or for the bridged tap(s) to be removed.
25 The Engineering group will create a work order that will be sent to the

1 Outside Plant Construction forces outlining the work necessary to
2 deload the cable pair or remove bridged tap(s). The Outside Plant
3 Construction splicing group will complete the work order and advise
4 the engineering group upon the completion of the activity. The
5 Engineering group will then advise the Verizon NMC the order can be
6 worked. All records are updated showing the change in the
7 conditioning of the pair.

8

9 **Q. HOW WERE COSTS DEVELOPED FOR LOOP CONDITIONING**
10 **ACTIVITIES?**

11 A. Noted below are the steps used for calculating costs for (1) Load Coil
12 removal and (2) Bridged Tap removal. These costs are detailed in
13 Verizon's cost study.

14 (1) Load Coil Removal – The first criterion used in determining
15 the cost of removal are the footages of aerial/buried and
16 underground cable. This is because the amount of time for
17 load coil removal differs based upon the type of cable.
18 Florida-specific data was used to develop these costs.

19

20 The second criterion is the number of load coils to be
21 removed. Load coils are placed on copper voice grade
22 loops based on their distance from the central office using
23 engineering distances for maximum transmission results.
24 Florida-specific inventory of cable length was used to
25 calculate the average number of load coils to be removed.

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Based on these two cost criteria, Verizon developed the average time per work order to remove load coils. This time was multiplied by the LLR for a Construction Cable Splicer. These costs are weighted by the ratio of aerial/buried to underground cable, and based on cable footages.

(2) Bridged Tap Removal – the engineering activities for bridged tap removal are the same to determine the number and location of load coils on a cable pair. The Construction Cable Splicer time was developed by SMEs in conjunction with field forces involved in bridged tap removal. Costs for removal are based on single and multiple occurrences.

XI. DEDICATED TRANSPORT AND SS7 ACCESS

Q. WHAT COSTS DOES VERIZON INCUR FOR PROCESSING CLEC REQUESTS FOR DEDICATED TRANSPORT AND SS7 ACCESS SERVICE?

A. Verizon incurs costs for ordering, provisioning, central office and field installation activities associated with CLEC requests for dedicated transport and SS7 access.

Q. HOW WERE COSTS DEVELOPED FOR THESE SERVICES?

A. Verizon-West has been provisioning these services for IXCs through the NACC for many years. I previously described the NACC and its

1 processes. Additionally, the BRPC provisioning, the central office
2 jumper work, and the outside plant installation work follow the same
3 processes previously described. Verizon studied the work times
4 associated with the activities for each of these services and developed
5 costs based on the applicable LLRs described earlier for dark fiber.
6 Where certain activities are not required, such as pre-ordering for dark
7 fiber, these costs are not included.

8

9

XI. HOUSE AND RISER

10

11 **Q. PLEASE DESCRIBE HOUSE AND RISER.**

12 A. House and riser cable is cable that is located inside a building that
13 provides access from the entrance facility to each of the floors or wiring
14 locations within the building. This type of arrangement is usually found
15 in multiple story buildings.

16

17 **Q. WHAT COSTS DOES VERIZON INCUR FOR PROCESSING CLEC
18 REQUESTS FOR ACCESS TO HOUSE AND RISER CABLE?**

19 A. Verizon will incur costs for ordering, provisioning, and field work
20 activities associated with CLEC requests for access to house and riser
21 cable.

22

23 **Q. PLEASE DESCRIBE THE ORDERING ACTIVITIES FOR ACCESS
24 TO HOUSE AND RISER.**

25 A. Requests for house and riser cable access are submitted by CLECs to

1 Verizon-West NMC by means of the LSR process I described earlier.
2 The NMC receives the LSR, checks it for accuracy, and applies all
3 applicable NRCs and MRCs. The NMC releases the order into
4 Verizon's order processing system, which then routes it to the
5 appropriate provisioning and central office/field installation groups
6 involved in completing Florida orders.

7

8 **Q. HOW DID VERIZON DEVELOP THE COSTS ASSOCIATED WITH**
9 **ORDERING ACTIVITIES FOR HOUSE AND RISER?**

10 A. To determine the costs for house and riser ordering, Verizon relied on
11 the exchange and advanced/special elements order type for this
12 ordering process, similar to the Network Interface Device (NID) order
13 type.

14

15 **Q. PLEASE DESCRIBE THE PROVISIONING ACTIVITIES**
16 **ASSOCIATED WITH HOUSE AND RISER.**

17 A. The APC will access the facility records database and change the
18 records to identify the network configuration requested by the CLEC.

19

20 **Q. HOW WERE THE COSTS DEVELOPED FOR THE PROVISIONING**
21 **ACTIVITIES FOR HOUSE AND RISER?**

22 A. Verizon tracks activities based on the number of times the APC
23 accesses or "touches" an order to provision it. The costs are based on
24 the number of touches per order. This activity measure, for various
25 order types, was collected by the cost managers from Verizon-West's

1 NOCV system. The total of productive minutes of the APC for order
2 touches is divided by the total number of touches to create the minutes
3 per touch calculation. The cost per touch is calculated by multiplying
4 the minutes per touch by the loaded labor rate for the APC.

5

6 **Q. PLEASE DESCRIBE THE FIELD WORK ACTIVITES ASSOCIATED**
7 **WITH HOUSE AND RISER.**

8 A. To disconnect and connect the cables in the field, a trip to the
9 customer location by the technician is necessary. The technician will
10 break (disconnect) one jumper and install one jumper. The jumper
11 break will be to remove the existing jumper from Verizon entrance
12 facilities to the house and riser cable. The install jumper will be to
13 install a jumper from the CLEC block to the house and riser cable.

14

15 **Q. HOW WERE THE COSTS DEVELOPED FOR THE FIELD WORK**
16 **ACTIVITIES FOR HOUSE AND RISER?**

17 A. The costs for the field work activities are based on drive time and
18 jumper running studies conducted by Verizon. This study provides the
19 average time to travel to a customers premise and then perform the
20 jumper activity at a customers premise.

21

22 **XIII. LINE AND STATION TRANSFER**

23

24 **Q. PLEASE EXPLAIN VERIZON'S LINE AND STATION TRANSFER.**

25 A. The line and station transfer applies only to customers being served by

1 DLCs. Line and station transfer is to be applied when copper facility
2 can be freed up in order to satisfy a CLEC's request for a copper
3 based technology.

4

5 **Q. WHAT COSTS DOES VERIZON INCUR WHEN PROVIDING LINE**
6 **AND STATION TRANSFER?**

7 A. Verizon will incur provisioning, engineering, central office work, and
8 field installation work for line and station transfer.

9

10 **Q. PLEASE DESCRIBE THE ACTIVITIES ASSOCIATED WITH**
11 **PROVISIONING LINE AND STATION TRANSFER.**

12 A. Once the transfer is approved and scheduled, provisioning will be
13 responsible for creating and sending the jumper list to the central office
14 and routing the order to the field technician for the facility change in the
15 field. When the order is complete the facility records are updated with
16 the new information.

17

18 **Q. HOW DID VERIZON DEVELOP THE COSTS FOR PROVISIONING**
19 **LINE AND STATION TRANSFER?**

20 A. Verizon tracks activities based on the number of times the APC
21 accesses or "touches" an order to provision it. The costs are based on
22 the number of touches per order. This activity measure, for various
23 order types, was collected by the cost managers from Verizon-West's
24 NOCV system. The total of productive minutes of the APC for order
25 touches is divided by the total number of touches to create the minutes

1 per touch calculation. The cost per touch is calculated by multiplying
2 the minutes per touch by the loaded labor rate for the APC.

3

4 **Q. PLEASE DESCRIBE THE ACTIVITIES ASSOCIATED WITH**
5 **CENTRAL OFFICE WORK FOR LINE AND STATION TRANSFER.**

6 A. The central office technician is responsible for breaking or installing
7 jumpers to transfer the customers to the assigned facility locations,
8 cable pair or DLC location.

9

10 **Q. HOW DID VERIZON DEVELOP THE COSTS FOR CENTRAL**
11 **OFFICE WORK FOR LINE AND STATION TRANSFER?**

12 A. The costs for the central office are based on time and jumper costs
13 from the "Jumper Study". The central office technician may break or
14 install jumpers.

15

16 **Q. PLEASE DESCRIBE THE ACTIVITIES ASSOCIATED WITH FIELD**
17 **WORK FOR LINE AND STATION TRANSFER.**

18 A. The field work activity has two components, engineering and field
19 installation. The engineer will design the rearrangement of the facilities
20 between the DLC and copper cable. The engineer will research and
21 analyze the facility records to determine if the transfer can take place.
22 The engineer may make a site visit if necessary. The engineer will
23 create a design cut sheet and release the information to be worked.
24 The field installation activity is similar to sub-loop activity when the
25 technician runs jumpers at the field location for the proper connections.

1 The field activity will be coordinated with the central office technician.

2

3 **Q. HOW DID VERIZON DEVELOP THE COSTS FOR FIELD WORK**
4 **FOR LINE AND STATION TRANSFER?**

5 A. The engineering costs are based on an engineering SME estimate of
6 the activities and time for the transfer of the facilities. The field
7 installation time is based on the sub-loop cross connect activity. These
8 activities are based on a "Cross Box Jumper and Drive Time Study"
9 conducted by Verizon.

10

11 **XIV. MECHANIZED LOOP PRE-QUALIFICATION**

12

13 **Q. PLEASE EXPLAIN VERIZON'S MECHANIZED LOOP PRE-**
14 **QUALIFICATION PROCESS.**

15 A. The FCC Remand Order mandates that the ILEC provide requesting
16 CLECs with nondiscriminatory access to the same detailed information
17 about the loop that is available to the ILEC. The Mechanized Loop Pre-
18 Qualification ("MLPQ") process provides a means for a CLEC to
19 perform loop qualification analysis. It provides the requesting CLECs
20 with nondiscriminatory access to the same information that was used
21 in Verizon's retail ADSL offering.

22

23 The FCC Remand Order, in paragraph 427, states that the incumbent
24 local exchange carrier (ILEC) must provide requesting competitive
25 local exchange carriers (CLECs) with nondiscriminatory access to the

1 same detailed information about the loop that is available to the ILEC.
2 This information is made available to the CLECs through Verizon's
3 MLPQ process. The information includes: (1) composition of the loop
4 material, including but not limited to: fiber optics or copper; (2) the
5 existence, location and type of any electronic or other equipment on
6 the loop, including but not limited to, digital loop carrier or other remote
7 concentration devices, feeder/distribution interfaces, bridge taps, load
8 coils, pair-gain devices, disturbers in the same or adjacent binder
9 groups; (3) the loop length, including the length and location of each
10 type of transmission media; (4) the wire gauge(s) of the loop, and (5)
11 the electrical parameters of the loop, which may determine the
12 suitability of the loop for various technologies.

13

14 **Q. HOW WAS THE COST TO ESTABLISH THE MLPQ PROCESS**
15 **DEVELOPED?**

16 A. Verizon incurred approximately \$1.014 million in transition costs for the
17 mechanized loop pre-qualification project during 2000. This includes
18 the costs for two Data Processing Service Requests (DPSR) that
19 provided for the equipment and software to access and interface the
20 systems that contain the facility information. The systems involved in
21 providing this information worked independently and had only limited
22 interface capabilities. The need to interface these systems did not
23 exist until the request for MLPQ. The Business Analysis Group
24 tracked the financial costs of the two DPSRs. The DPSRs provisioned
25 for CLEC access to WISE, AAIS, and other systems that contain the

1 facility information. Software was also needed to format a response
2 back to the requester that contained the facility information requested.

3

4 **Q. HOW DOES A CLEC USE THE MLPQ PROCESS TO PERFORM**
5 **LOOP PRE-QUALIFICATION?**

6 A. CLECs utilize a Graphic User Interface ("GUI") on Verizon's internet
7 based Wholesale Internet Services Engine ("WISE") to access the
8 MLPQ capabilities. This access was chosen because CLECs currently
9 have access to this interface and utilize it on a regular basis. The
10 CLEC access the MLPQ form and enters either a working telephone or
11 a valid address into the system. WISE interfaces with a report
12 generation program which in turn access several different systems
13 providing the CLEC with the following information.

14 NPA and NXX

15 Local Termination CLLI

16 Existence of a pair gain or DLC and if present, the type

17 Existence of DAML in the loop

18 Type of loop length provided (actual or electronic measurement)

19 Loop length

20 Loop length by gauge of cable

21 Type of any load coils

22 Quantity of load coils

23 Location of load coils

24 Quantity of bridged taps

25 Location of bridged taps

- 1 Type and number of disturbers in the feeder cable of the loop
- 2 Type and number of disturbers in the distribution cable of the loop
- 3 Composition of the feeder and distribution cables
- 4 Wire center name
- 5 OBF response codes and descriptions

6

7

XV. CONCLUSION

8

9 **Q. PLEASE SUMMARIZE YOUR TESTIMONY.**

10 A. Verizon has developed a comprehensive and well supported non-
11 recurring cost study that conforms to current FCC principles and
12 addresses all of the non-recurring activities Verizon must perform to
13 provide UNE products to CLECs. The Commission should approve
14 these costs for use in pricing Verizon's unbundled network elements.

15

16 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

17 A. Yes.

18

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21

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