

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 990649B-TP

In the Matter of

INVESTIGATION INTO PRICING
OF UNBUNDLED NETWORK
ELEMENTS (SPRINT/VERIZON TRACK)

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VOLUME 2

Pages 184 through 372



PROCEEDINGS:

HEARING

BEFORE:

CHAIRMAN LILA A. JABER
COMMISSIONER J. TERRY DEASON
COMMISSIONER BRAULIO L. BAEZ
COMMISSIONER MICHAEL A. PALECKI
COMMISSIONER RUDOLPH "RUDY" BRADLEY

DATE:

Monday, April 29, 2002

TIME:

Commenced at 9:35 a.m.

PLACE:

Betty Easley Conference Center
Room 148
4075 Esplanade Way
Tallahassee, Florida

REPORTED BY:

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APPEARANCES:

(As heretofore noted.)

DOCUMENT NUMBER - DATE

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FPSC-COMMISSION CLERK

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P R O C E E D I N G

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MR. FONS: Next we have the direct testimony of Jimmy R. Davis consisting of 27 pages of direct testimony, and we'd ask that that direct testimony be inserted into the record as though read.

CHAIRMAN JABER: Prefiled direct testimony of Jimmy R. Davis shall be inserted into the record as though read.

MR. FONS: There were no exhibits to Mr. Davis' direct testimony.

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1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **DIRECT TESTIMONY**

3 **OF**

4 **Jimmy R. Davis**

5

6 **Q. Please state your name, place of employment, and business**
7 **address.**

8

9 A. My name is Jimmy R. Davis. I am employed by Sprint/United
10 Management Company as a Senior Manager – Network Costing at
11 6360 Sprint Parkway, Overland Park, Kansas 66251. I am testifying
12 on behalf of Sprint Communications L.P. (“Sprint”).

13

14 **Q. What is your educational background?**

15

16 A. I received a Bachelor of Science Degree in Civil Engineering from
17 North Carolina State University in Raleigh, North Carolina. In 1990, I
18 received a Master of Business Administration Degree from East
19 Carolina University, in Greenville, North Carolina. I have also
20 received telephony related continuing education through Company
21 Sponsored Technical Training in Planning, Network, and Field
22 Operations.

23

24 **Q. What is your work experience?**

1

2 A. After a two-year tour in Building Engineering, I transferred to the
3 Network Planning Department of Sprint – Carolina Telephone in
4 Tarboro, North Carolina where I had responsibility for that
5 Company's Capital Recovery Program. There my job functions
6 involved statistically based mortality studies of telephone physical
7 property, depreciation expense budgeting, property valuations, and
8 cost studies including capital planning. From 1989 to 1993, I served
9 a Sprint-Carolina Telephone's Technical Training Manager where I
10 had responsibility for providing network related technical skills
11 training to that Company's craft and lower level management
12 employees. After a two-year assignment in the Corporate Training
13 Organization, I was assigned, in 1995, to a Customer Services
14 Manager Position in Jacksonville, North Carolina. There I was
15 responsible for the turn up and maintenance of Network and Outside
16 Plant for approximately 115,000 access lines. I was also responsible
17 for installation and maintenance of residential and small business
18 services including high-speed data (special) services. In 1998, I
19 transferred to Kansas City where I continued to work in the Customer
20 Services Organization spending the majority of that time as a
21 Standards a Process Manager responsible for the Sprint Local
22 Telephone Division's National Standard Methods and Procedures for
23 Outside Plant Construction and Maintenance Operations. I then
24 transferred to my current position in June of 2001.

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Q. What is the purpose of your testimony in this proceeding?

A. The purpose of my testimony is to support the Sprint – Florida, INC (Sprint) “Non-Recurring Charge (NRC) Study” and to explain the assumptions made and principles utilized in development of the NRCs associated with ordering and installing Unbundled Network Elements (“UNEs”).

Non-recurring charges are one-time charges assessed for activities performed by Sprint on behalf of Alternative Local Exchange Carriers (ALECs) which involve the processing of orders and the installation of UNEs. Due to the quantity of NRCs involved with this proceeding, I will only address the categories and/or particular items that warrant discussion due to complexity of the subject and/or costing methodology. Additional details regarding each UNE NRC costing methodology can be found within the body of the cost study, which includes further descriptions, methodology and workpapers. My testimony also addresses in whole, issues #8, #10 and #11, and in part, issues #9(a) and #12 as identified in Appendix A of this Commission’s “Second Revised Order on Procedures” issued March 16, 2000. Sprint witness Mr. Kent Dickerson will also address issues #9(a) and #12.

1 **Q. Which portions of Sprint's cost study filings are you**
2 **supporting?**

3

4 A. In addition to my testimony, Exhibit KWD-3 to the testimony of Sprint
5 witness Kent Dickerson identifies the portions of Sprint's cost study
6 filings that I support.

7

8 **Issue 8: What are the appropriate assumptions and inputs**
9 **for the following items to be used in the forward-**
10 **looking non-recurring UNE cost studies?**

- 11 (a) network design;
12 (b) OSS design;
13 (c) labor rates;
14 (d) required activities;
15 (e) mix of manual versus electronic activities;
16 (f) other.

17

18 **Q. What guiding principles did Sprint utilize in developing non-**
19 **recurring charges for UNEs?**

20

21 A. Sprint utilized principles set out by the FCC and this Commission.
22 First, the Company assumed a "forward-looking" network as defined
23 by the FCC. That is, the network utilized in the development of

1 NRCs meets the FCC criteria of being “the most efficient, least-cost
2 and reasonable technology currently available for purchase”.

3

4 In compliance with these principles, Sprint assumed the use of Next
5 Generation Digital Loop Carriers (“NGDLCs”) in the development of
6 NRCs for unbundled loops and assumed the availability of a “fully
7 automated” Operations Support System (OSS) for an ALEC to
8 submit Local Service Requests (“LSRs”) to the Company.

9 Automated facility assignment, order routing, switch activation and
10 dispatch have also been assumed as part of the Company’s forward-
11 looking network.

12

13 Second, again assuming a forward-looking network, Sprint
14 developed charges that relate as closely as possible to actual costs
15 incurred, rather than developing a single “average” charge.

16 Consequently, ALECs will pay non-recurring charges that relate
17 directly to work actually performed on their behalf which, in turn, will
18 ensure that Sprint neither over, nor under-recovers, non-recurring
19 costs.

20

21 **Q. Would you please describe in more detail how non-recurring**
22 **charges were developed for unbundled network elements?**

23

1 A. Yes. The purpose of the NRC study is to determine the cost of
2 initiating, changing and providing unbundled element services for
3 ALEC customers. These charges are based on the amount of time
4 required to complete an activity and the cost of performing that
5 activity. The charges represent the most current wage rates and
6 time components related to UNE services.

7

8 The study consists of four main steps:

- 9 1. Identifying the work activities or tasks necessary to complete
10 service order, installation, and other related provisioning
11 functions for each unbundled element.
- 12 2. Identifying the work times related to performing each function.
- 13 3. Identifying the labor rates for each work group that completes
14 the activity and multiplying that amount by the time required to
15 complete the activity.
- 16 4. Grouping the costs by appropriate activities to develop a cost
17 by unbundled network element.

18

19 **Q. Have you included a contribution for common cost in the**
20 **NRCs?**

21

22 A. Yes. A contribution for common costs was included as a component
23 in the total NRC cost. Mr. Kent Dickerson will explain the

1 development of the factor used to determine the level of common
2 costs included in the NRC rates .

3

4 **Q. What categories of NRCs are reflected in the study?**

5

6 A. There are three general categories of functions reflected in the study
7 of non-recurring charges:

8

9 1. *Service Order Charges*

10 2. *Installation Charges*

11 3. *Other Installation Charges*

12

13 Each of the four main study steps I described previously are
14 performed with respect to each of these categories of non-recurring
15 charges.

16

17 **Q. Please describe the first category of non-recurring charges -**
18 **Service Order Charges.**

19

20 A. A *Service Order Charge* covers the cost of work performed by Sprint
21 in connection with receiving, recording and processing ALEC
22 requests for service. Sprint has developed three categories of
23 *Service Order Charges*.

24

- 1 1) A **Service Order Charge** is applied to all orders for new service
2 received from ALECs.
3
4 2) A **Listing Only Charge** is applied to orders received through
5 the Local Service Request (LSR) process to provide directory
6 listings only. (Note: Sprint also provides a "batch" process that
7 is generally used by ALECs for providing directory listings.)
8
9 3) A **Change Order Charge** is applied when an ALEC requests a
10 change in a port feature.

11

12 **Q. Has Sprint developed Service Order Charges based on the**
13 **availability of a fully automated OSS for ordering service?**

14

15 A. Yes. Sprint has developed two general categories of Service Order
16 Charges: **Electronic Service Order Charges** and **Manual Service**
17 **Order Charges.**

18

19 **Electronic Service Order Charges** are applied to orders when an
20 ALEC has elected to use Sprint's automated ordering platforms. In
21 this case, it is assumed that a service order will directly flow into the
22 Company's OSS on a fully automated basis. The majority of the
23 costs, therefore, will result from the processing of orders that, due to
24 errors in the data provided on the ALEC's LSR, require some form of

1 manual intervention to complete. Typically, this might include
2 requesting service at an address that does not exist or is not
3 complete (such as a missing apartment number). In addition, the
4 LSR might not contain sufficient information to identify the existing
5 service that is being transferred from Sprint to the ALEC. In all
6 cases, Sprint will attempt to manually correct the information and
7 may also contact the ALEC for clarification or correction.

8

9 ***Manual Service Order Charges*** are applied when an order is not
10 transmitted to Sprint through the automated OSS, such as when an
11 order is placed over the telephone or by facsimile.

12

13 **Q. Is Sprint's development of Electronic and Manual Service Order**
14 **Charges consistent with the utilization of a least cost, forward-**
15 **looking technology?**

16

17 A. Yes, it is. In order to be considered forward looking, a technology
18 must be currently available, most efficient and least cost. Sprint
19 believes that the proposed Electronic/Manual service order structure
20 best meets these criteria in a broad range of situations.

21

22 **Q. In what ways does Sprint's service order structure meet the**
23 **criteria of being least cost and most efficient?**

24

1 A. An automated service ordering interface requires investment on the
2 part of both the ALEC that is sending the orders and the ILEC that
3 receives them. A decision as to whether an automated ordering
4 system is “most efficient” must consider the financial impact on both
5 parties. Sprint has an automated platform in place to serve ALECs
6 that find it more economical to use this method. The Company also
7 provides a manual process that ALECs may elect to use if
8 implementing an automated interface is not economical for them due
9 to low order volume or other reasons. ALECs presently use both
10 methods to transmit orders to Sprint in Florida. Since it is likely that
11 ALECs will use the ordering option, which is in their best economic
12 interest, both manual and automated ordering are forward-looking
13 approaches.

14

15 **Q. Is there a difference in the cost to Sprint for processing**
16 **Electronic and Manual service orders?**

17

18

19 A. Yes. As one might expect, the NRC for processing a manual service
20 order is higher. This methodology facilitates charges that relate as
21 closely as possible to actual non-recurring costs incurred, rather than
22 developing a single “average” charge.

23

24

1 **Q. Does Sprint's non-recurring cost study address each of the**
2 **unbundled network elements listed in Issue 9(a)?**

3
4 A. Yes, where applicable. The various UNE NRCs are listed on the first
5 few pages of the Non-Recurring Cost Study.

6
7 **Q. Please describe the second category of non-recurring charges -**
8 **Installation Charges.**

9
10 A. The Installation Charge section of the NRC cost study is sub-
11 categorized into 13 different UNE types including loops (all types),
12 pre-order loop qualification, loop conditioning, dark fiber, UNE-P,
13 EELs, switching, features, customized routing, operator services and
14 transport. Each sub-section contains a description of the costing
15 methodology or elements utilized to derive the applicable NRC rates.

16
17 **Q. Please describe the "loop" sub-category of non-recurring**
18 **charges - Installation Charges.**

19
20 A. For analog, digital, XDSL-capable loops and subloops, the NRC
21 recovers the cost of work performed for connection or reconnection
22 of 2-Wire and/or 4-Wire loops. Two possible installation charges
23 may be applied for each installation:

24

1 New Install: This charge recovers the cost of installing an unbundled
2 loop on behalf of an ALEC for an end user who is not an existing
3 customer of Sprint. The charge will also apply to a loop where there
4 is no existing "Cut Through" or "Dedicated Central Office Plant" in
5 place.

6
7 Re-install or Migrate: This charge recovers the cost of installing an
8 unbundled loop when an existing Sprint end user is migrating to an
9 ALEC, or when there is an existing "Cut Through" or "Dedicated
10 Central Office Plant" in place.

11
12 These charges are designed to ensure that the Loop Installation
13 Charge reflect the costs that would be incurred for each installation in
14 a forward-looking network environment. The description and
15 methodology sections within the cost study for each of these
16 elements provides more detail.

17
18 **Issue 10: What is the appropriate rate, if any, for customized**
19 **routing?**

20
21 **Q. Please describe the specific Non-recurring charges that apply to**
22 **customized routing.**

23

1 A. Three separate non-recurring charges have been identified for
2 customized routing. Only those charges applicable to a specific
3 customized routing request would apply.

4 They are:

- 5 • Switch Analysis Charge
- 6 • Host Switch Translations
- 7 • Remote Switch Translations

8

9 Time estimates and Florida-specific loaded labor rates were used to
10 develop the charges shown in the cost study.

11

12 **Issue 11: What is the appropriate rate if any, for line**
13 **conditioning, and in what situations should the rate**
14 **apply?**

15

16 **Q. Can TELRIC principles be applied to loop conditioning non-**
17 **recurring cost methodologies?**

18

19 A. Yes. The Commission has found that pricing on the basis of forward-
20 looking costs is a key element in fostering competition in the local
21 services market. Sections 51.319(a)(3)(B) and (C) of the Rules state
22 that line conditioning costs must be recovered "in accordance with
23 the Commission's forward-looking pricing principles..." and that
24 ILECs shall recover nonrecurring loop conditioning costs "in

1 compliance with rules governing nonrecurring costs in Section
2 51.507(e)," that is, based on the ILECs' forward-looking economic
3 costs.

4
5 These TELRIC pricing principles should be followed with respect to
6 costs associated with load coil removal on loops that are shorter than
7 18,000 feet. While Bridged Tap and Repeater removals must be
8 accomplished on a per loop basis, Load Coil removals for loops
9 shorter than 18,000 feet, can be accomplished most efficiently by
10 performing the work on a bulk-basis. An efficient service provider
11 should develop charges for loop conditioning that are based on
12 TELRIC principles, recognizing logical economies of scale and least-
13 cost methodologies, including an assumption that the ILEC will
14 remove Load Coils in groups of at least 25 at a time for loops shorter
15 than 18,000 feet.

16

17 **Q. What does line conditioning entail?**

18

19 A. Line Conditioning (Loop Conditioning) is the process that may be
20 used in conjunction with Loop Qualification for provisioning an XDSL-
21 capable loop. After receiving the loop make-up data, it is the
22 customer's option to request Loop Conditioning. This includes the
23 necessary work in the outside plant needed to provide a facility that
24 will allow the transmission of high-speed digital service, such as DSL.

1 This work may include the removal of Load Coils, Repeaters and/or
2 Bridged Taps.

3

4 **Q. What is the purpose of "loading" cable pairs?**

5

6 A. Load Coils are placed at regular intervals on copper cable pairs that
7 are 18,000 feet or longer. Their purpose is to improve the
8 transmission quality for voice grade services on these longer pairs by
9 reducing the signal loss caused by the capacitance of the telephone
10 cable. Copper pairs that are less than 18,000 feet long do not
11 require loading to provide voice grade services.

12

13 **Q. Will digital services, such as xDSL, work on a pair that has Load**
14 **Coils?**

15

16 A. No. Load Coils will block the transmission of digital services
17 including xDSL-based services for both copper-fed and NGDLC-
18 provisioned xDSL-capable loops. This is the reason that forward-
19 looking networks are designed with loops that are short enough to
20 avoid the need for Load Coils.

21

22 **Q. When you discuss "removing" a Load Coil or "unloading" a pair,**
23 **what work is actually involved?**

1

2 A. Generally, the load coil is not actually removed; it is just
3 disconnected from the cable pair. This involves snipping off the 4
4 wires that connect the coil to the cable pair and then reconnecting
5 the two ends of the cable pair. In larger cables, this may involve
6 removing a connector that splices twenty-five pairs at a time, pulling
7 out the load coil wires and replacing the connector.

8 The actual work time involved in making the connections is no more
9 than a minute or two, but set-up time can be significant, particularly
10 when working in manholes. This is why Sprint will unload multiple
11 pairs at one time when working on loops under 18,000 feet in length,
12 instead of unloading only the pair required for the current order.

13

14 **Q. Please explain the purpose of Repeaters in the voice network.**

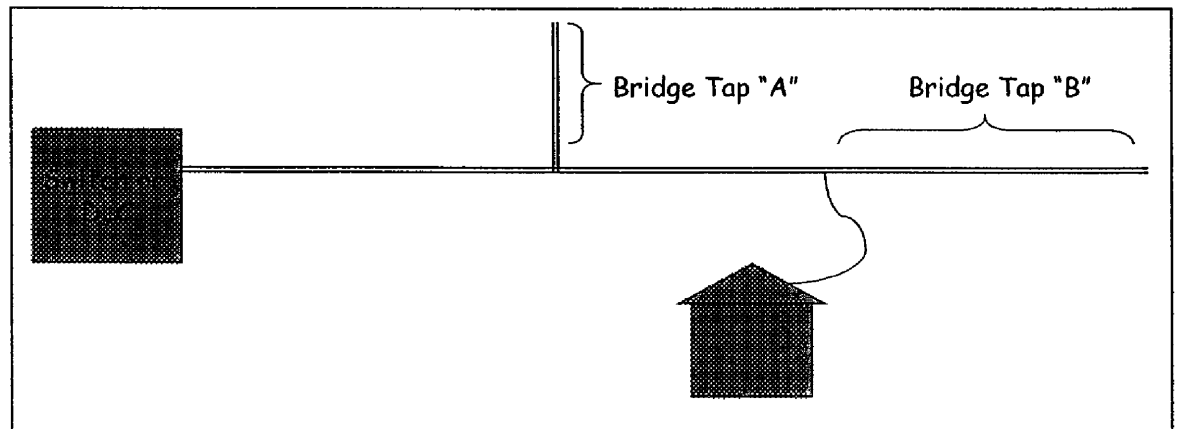
15

16 A. A repeater is generally used to amplify a signal over a copper loop.
17 Without such amplification, the signal will decay over distance. The
18 types of repeaters that are found in cable plant are not used for voice
19 grade circuits. They are specialized modifications to the voice
20 network that are installed to support digital services such as T1 and
21 ISDN. The existence of a repeater will interfere with xDSL signals.

22

1 **Q. Please define Bridged Tap and describe the impact on xDSL**
2 **services.**

3
4 A. Bridged Tap is any piece of the cable pair that is not in the direct path
5 between the customer and the switching device. In the following
6 illustration, sections "A" and "B" are considered to be bridged tap.
7 Bridged Tap is an issue because it degrades the quality of any type
8 of signal. This issue is magnified when xDSL is placed on a loop.
9 For voice transmission on a non-loaded Revised Resistance Design
10 (RDD) cable pair, Bridged Tap cannot exceed 6,000 feet. Sprint
11 utilizes industry standard Carrier Serving Area (CSA) guidelines
12 which limits total bridged tap to 2,500 feet, with no single bridged tap
13 exceeding 2,000 feet for DSL capable loops.



1

Bridged Tap

2

In this example, let's say that sections of the cable pair "A" and "B"

3

are both 2,000' long. So, the total bridged tap is 4,000'. This is

4

acceptable for voice but not for xDSL. In order to be used for xDSL,

5

we would need to eliminate 1,500' of the bridged tap. In this

6

example, this could be done by cutting the pair off at the customer's

7

location, eliminating Bridged Tap "B". Only enough bridged tap to get

8

the total under 2,500 feet has to be removed. So it would not be

9

necessary to remove both "A" and "B".

10

11 **Q. Is it possible to consistently remove bridge taps in multiple**
12 **quantities?**

13

14 **A.** No. Bridge taps occur at random in Sprint's network rather than in 25
15 pair complements like load coils. Many locations may only have one
16 bridge tap in a particular splice.

17

18 **Q. What work is actually involved in "removing" Bridged Tap?**

19

20 **A.** As in load coils, no plant is actually removed. The two wires of the
21 cable pair are simply cut off and capped. Sprint's position is that
22 excessive bridged tap can be removed the majority of the time in
23 above ground enclosures like the customer's serving terminal (where
24 the customer's drop wire connects to the distribution cable).

1

2 **Q. Please explain how the Sprint proposed Loop Conditioning**
3 **costs were developed.**

4

5 A. The description and methodology section of the Loop Conditioning
6 cost study contains a full explanation of the actual computations
7 summarized here. Sprint's loop conditioning cost methodology is
8 based upon unit costs contained in current contracts Sprint has with
9 outside plant contractors in Florida to perform the work functions
10 necessary to condition cable pairs. For load coil removal on loops
11 over 18,000 feet, all bridged tap and repeater removals, the costs are
12 determined on a per location basis, dependent upon the type of
13 outside plant facilities (Underground-Ug, Aerial-Ae or Buried-Bu).
14 This methodology enables Sprint to recover costs that vary with the
15 different types of plant conditions encountered when performing loop-
16 conditioning activities. For instance, it is more time-consuming to
17 perform loop-conditioning activities in manholes than it is to perform
18 the same procedures on aerial or buried outside plant (OSP)
19 facilities. Unlike the aerial and buried OSP environments, a single
20 technician cannot perform (loop conditioning) work activities in the
21 manholes because a minimum of two technicians is required for
22 safety reasons. The time required for pumping out water and purging
23 potentially dangerous gases is also not required when working in
24 aerial and buried OSP facilities. Since manholes are usually located

1 and accessed in city streets, there are additional costs associated
2 with setting up traffic control as opposed to aerial and buried
3 environments where utility trucks can usually pull off the roadway.

4
5 Sprint also assumes that the majority of cable pair access locations
6 involve quick and easy access to the cable pairs via "ready access"
7 splice enclosures when working in both aerial and buried plant
8 facilities. The utilization of such enclosures is common industry
9 practice - even in buried plant environments as the cable pair access
10 locations are usually brought above ground into a pedestal.

11
12 Sprint's costing methodology accounts for the significant labor cost
13 differences associated with accessing cable pairs to perform loop
14 conditioning activities when working in these different OSP
15 environments.

16 To avoid the potential problem with double counting engineering and
17 travel time when multiple conditioning activities occur on one cable
18 pair, Sprint calculated a separate one time per loop charge for
19 "Engineering" and "Travel". Perhaps more important, Sprint offers an
20 alternate, TELRIC-based view of load coil removal for loops under
21 18,000 feet in length. Because cable pairs are generally loaded in
22 groups of 25, and loading is not required at all on loops under 18,000
23 feet, separate costs were determined based on a more efficient load
24 coil removal process. Sprint considers it reasonable to spread the

1 fixed costs of accessing the cable pairs across all pairs that would be
2 unloaded in a 25 pair binder group. The incremental labor costs
3 associated with unloading 24 more cable pairs was added to a single
4 engineering and travel charge and then divided by 25 to determine
5 the cost per pair for the entire binder group. The costing
6 methodology utilized by Sprint represents the "least-cost, most
7 efficient" standard established by the FCC.

8

9 **Q. Are there non-recurring charges associated with Switch Ports?**

10

11 A. No. Sprint assumes 100% "flow-through" for port installation. That
12 is, installation is processed automatically through the Sprint OSS with
13 no manual intervention. Therefore, no non-recurring charge is
14 applied.

15

16 **Q. What Non-Recurring Charges does Sprint apply for Custom
17 Calling Features, CLASS and Centrex Features?**

18

19 A. Sprint provides a standard package of Custom Calling Features and
20 CLASS features with each port purchased. Again, Sprint assumes
21 100% flow-through for these standard packages, with installation
22 processed automatically through OSS and no manual intervention
23 required. Therefore, no non-recurring charge is applied. Certain of
24 the standard Custom Calling Features and CLASS features may be

1 mutually exclusive, such as two different types of call forwarding. In
2 these cases, the ALEC will need to specify which option is desired
3 when the port is initially ordered. If subsequent changes to the
4 features are requested, a Service Order - Change charge would be
5 applied. However, no additional installation charge would be applied
6 for the change.

7
8 In contrast to the above, Centrex features require manual switch
9 programming. Installation charges are, therefore, applied for the
10 standard Centrex package, as well as for several less frequently
11 requested, labor intensive, individual Centrex Features.

12
13 **Issue 12: Without deciding the situations in which such**
14 **combinations are required, what are the**
15 **appropriate recurring and non-recurring rates for**
16 **the following UNE combinations:**

17
18 (a) "UNE Platform" consisting of: loop (all),
19 local (including packet, where required)
20 switching (with signaling), and dedicated and
21 shared transport (through and including local
22 termination);

23
24 (b) "extended links," consisting of:

1

2

(1) loop, DS0/1 multiplexing, DS1

3

interoffice transport;

4

(2) DS1 loop, DS1 interoffice transport;

5

6

(3) DS1 loop, DS1/3 multiplexing, DS3

7

interoffice transport.

8

9

Q. Describe how the non-recurring rates were developed for “UNE platform”.

10

11

12

A. Sprint’s NRCs for the UNE platform combinations are listed on page 13 of the Non-Recurring Cost Study. For a new 2-wire analog UNE-P, the charge is equal to the cost of the local loop installation. This is because Sprint assumes 100% flow-through automated systems whereby there is no installation charge for the port.

13

14

15

16

17

18

Q. Describe how the non-recurring rates were developed for “extended links”.

19

20

21

A. For “Enhanced Extended Links” also known as “EELs”, three costing scenarios are addressed:

22

23

1 EEL 1 – includes the DS0 loop, DS0/1 multiplexing and DS1
2 transport. For the first line, the NRC consists of the labor required for
3 a field visit to connect the service at a cross-connect, terminal, and
4 NID/Protector (equal to the loop installation charge) which is added
5 to the labor associated with performing the DS0/1 multiplexing and
6 DS1 transport provisioning functions. For the 2nd through 24th lines
7 that are to share this initial DS1 transport facility, a reduced NRC per
8 line occurs since an additional DS1 transport facility installation
9 charge is not required.

10

11 EEL 2 – includes a DS1 loop, DS1/0 multiplexing and DS1 transport.
12 The NRC is the simple addition of the NRCs for these individual
13 UNEs. This includes the labor required for a field visit to connect the
14 service at a cross-connect, terminal, and NID/Protector which is
15 added to the labor associated with the DS1 transport provisioning
16 function.

17

18 EEL 3 – includes a DS1 loop, DS1/3 multiplexing and DS3 transport.
19 The NRC for the initial line includes the labor required for a field visit
20 to connect the service at a cross-connect, terminal, and
21 NID/Protector (equal to the DS1 loop installation charge) which is
22 added to the labor associated with the DS1/3 multiplexing and DS3
23 transport provisioning functions. For the 2nd through 28th DS1s that
24 are to share this initial DS3 transport facility, a reduced NRC per DS1

1 line occurs since an additional DS3 transport facility installation
2 charge is not required.

3

4 **Q. Please discuss the last category of non-recurring charges -**
5 **Other Installation Charges.**

6

7 A. Trouble Isolation and Testing Charge is billed when an ALEC reports
8 trouble on a facility and it is discovered that the cause is outside of
9 Sprint's network, as in the case of inside wire or trouble in the
10 ALEC's network. The trouble isolation charge includes two
11 components. The first recovers the cost of conducting tests at the
12 central office and the second recovers the cost of dispatching an
13 outside technician to determine the cause.

14

15 Other UNE charges found within this category includes those
16 associated with *Originating Point Code Service, Global*
17 *Address Translations, Nid Installation, Cooperative Testing,*
18 *Trip Charges, Dark Fiber End-to-End Testing and Loop Tag*
19 *and Label*. The costing methodology utilized for each of these
20 NRCs can be found in the description and methodology
21 sections within the "Other Charges" category of the NRC cost
22 study .

23

1 **Q. Are the work times utilized in Sprint's NRC studies comparable**
2 **to the commission ordered NRC work times for BellSouth in**
3 **Docket No. 990649-TP?**

4
5 **A. In most cases the work times that the Florida PUC ordered for**
6 **BellSouth are higher than the work times reflected in Sprint's filed**
7 **NRC studies. Sprint's studies were developed based on**
8 **assumptions of automated forward looking, least cost, most efficient**
9 **operating systems and procedures that may not exist but are**
10 **consistent with TELRIC study procedures. Sprint believes that the**
11 **appropriate work steps and times are included in our studies.**

12
13 **Q. Does this conclude your testimony?**

14

15 **A. Yes, it does.**

1 MR. FONS: Next we have the direct testimony of Terry
2 Talken which has now been adopted by Michael Fuller. Out of an
3 abundance of caution, Mr. Fuller has filed testimony adopting
4 Mr. Talken's testimony, so we have actually four pages of
5 Mr. Michael Fuller's direct testimony, and we'd ask that that
6 be inserted into the record as though read.

7 CHAIRMAN JABER: Okay. The prefiled direct testimony
8 of Michael Fuller consisting of four pages shall be inserted
9 into the record as though read.

10 MR. FONS: And we would also ask then that the direct
11 testimony of Mr. Talken, which was adopted by Mr. Fuller,
12 consisting of eight pages be inserted in the record as though
13 read.

14 CHAIRMAN JABER: And the prefiled direct testimony of
15 Terry Talken as adopted by Mr. Fuller shall be inserted into
16 the record as though read.

17 MR. FONS: And there were no exhibits to either the
18 Fuller on the Talken testimony.

19 CHAIRMAN JABER: Thank you.

20

21

22

23

24

25

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **DIRECT TESTIMONY**

3 **OF**

4 **MICHAEL A. FULLER**

5 **ADOPTING THE TESTIMONY**

6 **OF**

7 **TERRY D. TALKEN**

8

9 **Q. Please state your name, business address, employer and current**
10 **position.**

11

12 A. My name is Michael A. Fuller. My business address is 6450 Sprint Parkway,
13 Overland Park, Kansas, 66251. I am presently employed as Manager –
14 Network Costing, Sprint/United Management Company.

15

16 **Q. Please describe your educational background and relevant work**
17 **experience.**

18

19 A. I received a Bachelor of Arts degree from Western Kentucky University,
20 Bowling Green, Kentucky, with a major in Business. Subsequently, I received
21 a Masters of Business Administration degree, with an emphasis in finance
22 and economics, from the University of Kansas, Lawrence, Kansas.

23

24 From 1978 to 1988, I was employed by Standard Havens Construction
25 Company as a construction product manager. My duties included

1 developing cost estimates and pricing models used to develop products and
2 services sold in the air pollution control markets.

3

4 I have been employed by Sprint Corporation or one of its predecessor
5 companies since 1988. From 1988 to 1991 I was Manager – Policy and
6 Economic Targeting. I developed economic policy, indicating which products
7 were the most beneficial to Sprint utilizing life cycle analysis to cover all
8 Sprint costs.

9

10 From 1991 to 1994, I was Group Manager – Access Pricing. I was
11 responsible for pricing dedicated access products. From 1994 to 1996, I was
12 Group Manager – Strategic Pricing. I was responsible for pricing business
13 voice products in all state and federal jurisdictions. I developed and
14 implemented strategic plans for pricing long distance voice products. From
15 1996 until 2000, I was Group Manager – Strategic Planning. I performed
16 competitor and economic impact analysis to assist management in both
17 short-term tactical decisions and long-term strategic group planning.

18

19 In 2000 I was promoted to Group Manger – Broadband Product
20 Management. I was responsible for product management of a consumer
21 broadband product line. I performed financial analyses for business cases
22 that determined the profitability of developing an xDSL access product for
23 delivering broadband content to residential consumers. I was a guest
24 speaker at the Residential Broadband conference in Miami in January 2001,
25 sponsored by the Institute for International Research (IRR). My topic was

1 Achieving DSL Mass Market Penetration: Examining How To Market And
2 Deliver Broadband Multimedia Solutions To The Residential Sector. In May
3 of 2001, I accepted my current position as Manager – Network Costing.
4

5 **Q. Have you read and reviewed the direct testimony of Terry D. Talken**
6 **dated November 7, 2001?**

7

8 A. Yes, I have reviewed Mr. Talken's direct testimony.

9

10 **Q. Have you read and reviewed the narratives, cost studies and work**
11 **exhibits supported by Terry D. Talken dated November 7, 2001?**

12

13 A. Yes, I have reviewed all of Mr. Talken's narratives, costs studies and work
14 exhibits.

15

16 **Q. Do you adopt the filing of Mr. Terry D. Talken?**

17

18 A. Yes, I am adopting the testimony of Mr. Talken dated November 7, 2001 in
19 its entirety, supporting the Sprint-Florida, Inc., ("Sprint") recurring cost
20 studies associated with the following unbundled network elements:

21 Signaling Networks and Call-related databases

22 E911 Services

23

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Q. Does this conclude your testimony?

A. Yes.

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **DIRECT TESTIMONY**

3 **OF**

4 **Terry D. Talken**

5

6 **Q. Please state your name, business address, employer and current**
7 **position.**

8

9 **A. My name is Terry D. Talken. I am employed by Sprint/United**
10 **Management Company as Manager of Network Costing. My business**
11 **address 6360 Sprint Parkway, Overland Park KS 66251.**

12

13 **Q. Please describe your educational background and relevant work**
14 **experience.**

15

16 **A. I received a Bachelor of Science and Business Administration degree from**
17 **the University of Missouri - Columbia in 1991 with a major in Accounting.**
18 **Also in 1991, I passed the national exam and am a Certified Public**
19 **Accountant (CPA) in the State of Kansas. I am currently working towards**
20 **the completion of a Master of Business Administration degree with emphasis**
21 **in Finance and Information Technology from the University of Missouri –**
22 **Kansas City.**

23

24 **Prior to joining Sprint, I practiced as a CPA. From 1991 to 1992, I was**
25 **employed as a staff auditor with the public accounting firm of Baird, Kurtz**

1 and Dobson, LLP. In this capacity I was responsible for the audits and
2 compilation of financial reports for publicly traded and privately held
3 businesses. From 1991 to 1996, I was employed as a consultant with the
4 public accounting firm of Frederick and Warinner, LLC (now known as
5 Warinner, Gesinger & Associates, LLC). In this capacity I managed the
6 audits of privately held telecommunication providers and their subsidiaries.
7 Additionally, I was responsible for regulatory reporting, which included
8 preparing cost studies in accordance with FCC Parts 36 and 69. With
9 Frederick and Warinner, I also developed traffic study models that produced
10 results used for engineering and regulatory reporting requirements.

11

12 I joined Sprint in 1997 as a senior analyst in the Local Customer Billing area.
13 I accepted a promotion to senior analyst in Network Costing area of the
14 Regulatory Affairs group in 1998. Through a series of promotions I obtained
15 my current position, Manager of Network Costing, in April 2000. I am
16 responsible for the development and analysis of cost models for the pricing
17 of Unbundled Network Elements (UNEs), reciprocal compensation, and
18 other product offerings in accordance with the Total Element Long Run
19 Incremental Cost ("TELRIC") costing methodology.

20

21 **Q. What is the purpose of your testimony in this proceeding?**

22

23 **A.** The purpose of my testimony is to support Sprint - Florida, Inc. ("Sprint")
24 recurring cost studies associated with the following unbundled network
25 elements:

1 I. Signaling Networks and Call-related databases

2 II. E911 Services

3

4 **Q. What specific issues are you addressing?**

5

6 A. I address the following issues as established in the Second Revised
7 Order on Procedure:

8 **Issue 5: For which signaling networks and call related
9 databases should rates be set?**

10 **Issue 6: What are the appropriate assumptions and inputs
11 for the following items to be used in the forward-looking
12 recurring UNE cost studies?**

13 **Item(q): signaling system costs**

14

15 **Issue 9(a): What is the appropriate recurring rates for each
16 of the following UNEs?**

17 **Item(18): signaling networks and call-related databases**

18

19 For purposes of clarity, I address each of the issues under the areas
20 identified earlier. Unless otherwise identified, all non-recurring charges for
21 the above are addressed by Sprint's witness, Mr. Jimmy R. Davis.

22

23 **Q. Which portions of Sprint's cost study filings are you supporting?**

24

1 A. In addition to my testimony, I support specific portions of the Sprint cost
2 study. Exhibit KWD-3 to the testimony of Sprint witness Mr. Kent
3 Dickerson identifies the portions of Sprint's cost study filings that I support.
4

5 **II. SIGNALING NETWORKS AND CALL-RELATED DATABASES**

6 **Q. For which signaling networks and call related databases should**
7 **rates be set?**

8
9 A. Sprint proposes UNE rates for the following call-related database items:

- 10 • 911/E911
- 11 • STP Ports and STP Switching (SS7 Interconnection)
- 12 • Database Query Services

13
14 **Q. Please describe the general TELRIC methodology used for each of**
15 **these services.**

16
17 A. The following TELRIC methodology is used for all services except 911:

- 18 1. Determine direct expense associated with the service.
- 19 2. Determine the direct investment associated with the service.
- 20 3. Multiply the investment by the annual charge factor to determine
21 the annual direct costs.
- 22 4. Add common cost.
- 23 5. Divide total economic cost by the appropriate number of units to
24 determine the total economic cost per unit.

1

2 **Q. What prices for 911/E911 does Sprint recommend?**

3

4 **A.** In the State of Florida, Sprint's arrangement with the local Public Safety
5 Answering Point (PSAP) recovers all recurring costs of this service outside
6 of any transport required by the ALEC to connect its switch with Sprint's
7 911 tandem. Sprint's witness, Mr. Talmage Cox, addresses transport
8 costing. Further, all non-recurring charges related to E911 will be
9 addressed by Sprint's witness, Mr. Jimmy Davis.

10

11 **Q. Please define Signaling System Seven (SS7) interconnection.**

12

13 **A.** SS7 interconnection consists of Signal Transfer Point (STP) ports,
14 interconnecting facilities, and STP switching usage. The costs for these
15 unbundled network elements are included in Volume II of Exhibit KWD-2
16 under the Miscellaneous UNEs tab in the SS7 Cost Module section. The
17 common channel signaling interconnection service provides a signaling
18 path for SS7 between a customer designated point of signaling premises
19 and a Sprint STP. This two-way signaling path provides interconnection to
20 the out-of-band signaling network in order to transmit and receive
21 information related to call completion.

22

23 The STP port provides the customer access to the Sprint STP, which acts
24 as a packet switch to route out-of-band signaling. It is in some respects

1 similar to the concept of access to a local switch through a port. An STP
2 port requires use of a link port card and processor costs.

3
4 The STP transport link is the facility that connects the ALEC customer's
5 designated premises to the Sprint STP. The link may be provisioned as a
6 DS0 (56 Kbps) or as an DS1 (1.544 Mbps), at the option of the requesting
7 ALEC. The interconnecting links are provisioned in mated pairs
8 connecting to diversely located STPs consistent with industry technical
9 standards for out-of-band signaling network diversity requirements.

10
11 STP switching usage consists of the cost of routing ISDN User Part
12 (ISUP) messages through a STP. The cost of SS7 switching is
13 determined by the number of individual interoffice trunks using a STP port.
14 The rate is applied on the basis of equivalent 56 Kbps trunks per month.
15 The optional DS1 rate is simply 24 times the 56 Kbps rate. STPs are
16 deployed in mated pairs for network reliability, and interconnecting carriers
17 must provision links to each STP in a mated pair.

18
19 **Q. How are the forward-looking economic costs of Signaling System**
20 **Seven (SS7) interconnection developed (Issue 7(q))?**

21
22 **A.** The TELRIC methodology and costing assumptions associated with STP
23 Ports and Switching are detailed in Volume I, under the SS7 tab. Care
24 has been taken to exclude port costs from the STP switching usage
25 investment. Florida-specific annual charge factors, equipment fill factors,

1 and demand are used in the calculations. The applicable transport link
2 and multiplexing costs are calculated in the Transport and Multiplexing
3 Cost Modules. Costing methodology associated with Transport and
4 Multiplexing are addressed in the testimony of Sprint's witness, Mr.
5 Talmage Cox.

6

7 **Q. Please define the database query services Sprint proposes.**

8

9 **A. Sprint LTD's intelligent network database services consist of the following:**

10 Local Number Portability (LNP)

11 Line Information Database (LIDB)

12 Calling Name (CNAM)

13 Toll Free Code (TFC) 800/888/877

14

15 **Q. How are the forward-looking economic costs of database query
16 services developed?**

17

18 **A. Again, detailed descriptions and cost studies for these services can be
19 found in Volume II of Exhibit KWD-2 under the Miscellaneous UNEs tab in
20 the SS7 Cost Module section.**

21

22 In general, LIDB, CNAM, and TFC services are provided via a diverse pair
23 of Service Control Points (SCPs) located in Johnson City and Bristol,
24 Tennessee. Because these three services use the same SCPs, a
25 common per query cost is developed based on the common investment.

1 Next, annual expenses incurred specific to the type of service are
2 identified and a per query expense calculated. Finally, the per-query costs
3 of query transport and switching from the local STPs in Florida to the
4 National STPs are added. These three cost elements are summed to
5 arrive at a total cost per query.

6
7 The LNP database is housed in a separate pair of SCPs with Advanced
8 Intelligent Network Capabilities required for this service. Accordingly, a
9 unique per query cost is developed for this service. The remaining
10 calculations are similar to the other database query services. All services
11 utilize the same national STP platform. Care has been exercised to
12 ensure no duplication of investment occurs within the cost studies.

13

14 **Q. Does this conclude your direct testimony?**

15

16 **A. Yes, it does.**

1 MR. FONS: And that concludes the, Sprint's direct
2 and surrebuttal and rebuttal case.

3 I would assume that the Staff is going to at some
4 point move some exhibits, stipulated exhibits, and we'd only
5 call attention to the fact that there is one deposition
6 exhibit -- deposition of Mr. David Draper who will be appearing
7 and stipulated into the record. And what we would like is his
8 deposition exhibit marked as a -- his deposition marked as an
9 exhibit to include both the deposition transcript and his
10 Late-Filed Exhibits 1 and 2.

11 CHAIRMAN JABER: Okay. Staff, have you agreed to
12 include the deposition of Mr. Draper as an exhibit?

13 MR. FUDGE: Yes, Madam Chairman.

14 CHAIRMAN JABER: Okay. And that's already identified
15 on your list?

16 MR. FUDGE: It's the last one on Page 2, DJD-1D.

17 CHAIRMAN JABER: Okay. So we'll take that up at the
18 right time, Mr. Fons. Is there anything else though? I need
19 to probably officially excuse your witnesses.

20 MR. FONS: Yes.

21 CHAIRMAN JABER: And what else?

22 MR. FONS: I believe that's it.

23 CHAIRMAN JABER: Okay. Staff, this seems like a good
24 time to go through your exhibit list.

25 MR. FUDGE: I think we need to go ahead and move in

1 the testimony of KMC witnesses and Staff and Z-Tel's witnesses
2 --

3 CHAIRMAN JABER: Okay.

4 MR. FUDGE: -- that testified on the Sprint portion.

5 MR. SELF: Since the order shows the Staff witness
6 next.

7 MR. FUDGE: Okay. Staff requests that the direct
8 testimony of David J. Draper be moved into the record as though
9 read, consisting of 11 pages.

10 CHAIRMAN JABER: The prefiled direct testimony of
11 David J. Draper shall be inserted into the record as though
12 read.

13 MR. FUDGE: Mr. Draper had six exhibits labeled DJD-1
14 through DJD-6. We ask that those be identified as a composite
15 exhibit.

16 CHAIRMAN JABER: It's DJD-1 through what?

17 MR. FUDGE: 6.

18 CHAIRMAN JABER: Okay. DJD-1 through DJD-6 shall be
19 identified as Composite Exhibit 6. And Composite Exhibit 6 is
20 admitted into the record.

21 (Composite Exhibit 6 marked for identification and
22 admitted into the record.)

23

24

25

DIRECT TESTIMONY OF DAVID J. DRAPER1
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Q. Please state your name and business address.

A. My name is David J. Draper. My business address is 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0865.

Q. By whom are you employed and in what capacity?

A. I am employed by the Florida Public Service Commission, in the Finance and Tax Section of the Division of Economic Regulation, as a Regulatory Analyst III.

Q. Please outline your educational qualifications and work experience.

A. I graduated from Florida State University in 1994 with Bachelor of Science degrees in Accounting and Finance. After graduation, I was employed full-time at the Florida Department of Revenue where I reviewed and examined various tax forms for accuracy and completeness. In 1995, I accepted an auditing position with the Florida Public Service Commission in which I audited various regulated Florida utilities. In 1997, I took my present position with the Commission working in the Finance Section analyzing return on equity, cost of capital and capital structures of public utilities and companies regulated by the Commission. I am currently pursuing a Master of Business Administration degree at Florida State University.

Q. Have you previously testified before this commission?

A. Yes. I have previously provided testimony on the appropriate cost of equity for the Chesapeake Utilities Corporation rate case, Docket No. 000108-GU.

Q. What is the purpose of your testimony in this docket?

A. The purpose of my testimony is to recommend an appropriate forward-looking weighted average cost of capital for Sprint Florida and Verizon Florida for purposes of determining the appropriate cost of unbundled network elements (UNEs).

Q. What principles provided the framework for your determination of a fair rate of

1 **return?**

2 **A.** I have framed my testimony based on my understanding of The Communications Act of
3 1934 as amended by The Telecommunication Act of 1996, specifically Sections 251 and 252.
4 In my opinion, the purpose of this Act was to develop competitive local markets by various means
5 of entry, including the unbundling of network elements. Section 251 deals with interconnection
6 between the incumbent telecommunication carrier and competing telecommunication carriers.
7 Section 251 makes it the duty of the incumbent telecommunication carrier to offer its network
8 elements to competing carriers and to provide all reasonable assistance in connecting and
9 providing service to the competing carriers. Section 252 concerns the procedure by which
10 carriers are required to negotiate; incumbent carriers are required to negotiate in good faith and
11 any dispute may be taken to the state's public service commission for arbitration. I also framed
12 my opinion based on Section 47 of the Code of Federal Regulations, specifically Subpart F -
13 51.505(b)(2). The rule in this subpart applies to the pricing of network elements, interconnection
14 and methods of obtaining access to UNEs. Subpart F states: "The forward-looking cost of capital
15 shall be used in calculating the total element long-run incremental cost of an element." In short,
16 the cost rate of common equity and debt should reflect forward-looking cost rates, not a firm's
17 embedded cost rates. Based upon my understanding of the rules and regulations stated above, I
18 employed generally accepted financial models, objective market data and forecasted long-term
19 and short-term debt cost rates in my analysis to determine the forward-looking cost of capital I
20 am recommending in this proceeding.

21 **Q. Please describe your general approach in determining Sprint Florida's and Verizon**
22 **Florida's forward-looking weighted average cost of capital.**

23 **A.** I began my analysis of the forward-looking weighted average cost of capital by estimating
24 the appropriate cost of equity, cost of debt and relative capital structure weights for a well
25 managed company in the business of providing UNEs. As a proxy for this line of business, I

1 analyzed the publicly traded telecommunication carriers listed in Value Line's "Investment
2 Survey for Windows," November 2001 edition. I developed a set of financial criteria in order to
3 determine an appropriate index of companies which I believe are comparable to the business and
4 financial risks associated with the provision of UNEs. In Exhibit DJD-1, I have provided a
5 schedule of my index of telecommunication companies. After determining an appropriate index
6 of companies, I then performed a Discounted Cash Flow (DCF) analysis and a Capital Asset Price
7 Model (CAPM) analysis on this index to estimate an appropriate return on equity (ROE). For the
8 forward-looking cost of debt, I analyzed the December 1, 2001, Blue Chip Financial Forecasts
9 and the December 17, 2001, Moody's Credit Perspectives to determine a forecasted forward-
10 looking cost rate. Finally, I averaged the equity and debt ratios of the companies in my index as
11 a proxy for a forward-looking capital structure and checked my results.

12 **Q. Please describe how you selected the ratio of debt and equity used in your**
13 **recommendation of the forward-looking weighted average cost of capital for both**
14 **companies.**

15 **A.** By using Value Line's "Investment Survey for Windows," November 2001 edition, I
16 calculated the average equity ratio of the publicly traded telecommunication carriers included in
17 my index. The average equity ratio for the index was 63.0%. To check this result, I reviewed
18 C.A. Turner Utility Reports "Financial Statistics of Public Utilities, 2001" (C.A. Turner). C.A.
19 Turner is a recognized financial publication used widely by financial analysts. In its report, C.A.
20 Turner states that the average telecommunications company had an equity ratio of 57.6% in 2000.
21 In addition, I reviewed several recent Commission Orders which approved UNEs pricing for
22 Sprint Florida, Verizon Florida and BellSouth in this and in other dockets. Based on this analysis,
23 I am recommending a forward-looking capital structure consisting of 60% common equity and
24 40% debt.

25 **Q. Do you believe that short-term debt should be reflected in the forward-looking cost**

1 **of debt?**

2 **A.** Yes, short-term debt is used to finance day-to-day operations and allows for flexibility in
3 paying short-term expenses. Almost all the companies included in my index have some form of
4 short-term debt in their capital structures. C.A. Turner reports that the average amount of short-
5 term debt for the companies in my index was 9.9% at the end of December 31, 2001, ranging
6 from a low of 3.5% to a high of 20% of total capital. Furthermore, both Sprint Florida and
7 Verizon Florida maintain a certain amount of short-term debt in their respective capital structures.
8 Therefore, I believe it is appropriate to include short-term debt in the determination of the
9 forward-looking cost of debt.

10 **Q. What cost rate do you recommend for the forward-looking cost of Sprint Florida's**
11 **and Verizon Florida's short-term debt?**

12 **A.** I recommend a cost rate for Sprint Florida's and Verizon Florida's short-term debt of
13 5.36%.

14 **Q. How did you determine the forward-looking cost rate for Sprint Florida's and**
15 **Verizon Florida's short-term debt?**

16 **A.** I calculated the cost rate for Sprint Florida's and Verizon Florida's short-term debt by
17 averaging the five forecasted quarterly prime rates as reported in Blue Chip Financial Forecasts.
18 The prime rate is the interest rate charged by banks to their most creditworthy customers. The
19 forecasted average prime rate is 5.36%. Therefore, I recommend a cost rate of 5.36% for both
20 Sprint Florida's and Verizon Florida's short-term debt included in their respective forward-
21 looking cost of debt.

22 **Q. What cost rate do you recommend for Verizon Florida's forward-looking cost of**
23 **long-term debt?**

24 **A.** I recommend a forward-looking cost rate for Verizon Florida's long-term debt of 7.84%.

25 **Q. How did you determine the forward-looking cost rate for Verizon Florida's long-**

1 **term debt?**

2 **A.** Verizon Florida is assigned a corporate credit rating of single A (A) by Standard & Poor's,
3 Inc. (S&P). To estimate the forward-looking cost of long-term debt, I reviewed the average
4 spread between yields on A rated utility bonds and 10-year Treasury bonds as reported by
5 Moody's Investors Service, Inc. (Moody's). Due to the fact that the Federal Reserve has stopped
6 issuing the 30-year Treasury bond, I have used the 10-year Treasury bond in calculating a
7 forecasted cost for long-term debt. For the 12 month period ended November 2001, the average
8 spread between the yields on A rated bonds and 10-year Treasury bonds has been as high as 309
9 basis points and as low as 258 basis points. Based on this range, I calculated an average spread
10 between the yields on A rated utilities and 10-year Treasury bonds of 284 basis points. Using
11 Blue Chip Financial Forecasts for December 2001, I calculated the forecasted interest rate for 10-
12 year Treasury bonds by averaging the forecast for the next five quarters, which results in a rate
13 of 5.0%. By adding the average spread of 2.84% to the average forecasted interest rate of 5.0%
14 for 10-year Treasury bonds, I calculated a forward-looking cost rate for Verizon Florida's long-
15 term debt of 7.84%.

16 **Q. What cost rate do you recommend for Sprint Florida's forward-looking cost of long-**
17 **term debt?**

18 **A.** I recommend a forward-looking cost rate for Sprint Florida's long-term debt of 8.12%.

19 **Q. How did you determine the forward-looking cost rate for Sprint Florida's long-term**
20 **debt?**

21 **A.** I performed the same analysis in forecasting Sprint Florida's cost rate for long-term debt
22 as I did for Verizon Florida. Sprint Florida is assigned a corporate credit rating of triple B (BBB)
23 by S&P. The spread between the yield on BBB rated utility bonds and 10-year Treasury bonds
24 over the past twelve months ranges from a high of 348 basis points to a low of 275 basis points.
25 Based on this range, I calculated an average spread of 312 basis points. By adding the average

1 spread of 3.12% to the average forecasted interest rate of 5.0% for 10-year Treasury bonds, I
2 calculated a forward-looking cost rate for Sprint Florida's long-term debt to be 8.12%.

3 **Q. What cost rate do you recommend for Sprint Florida and Verizon Florida overall**
4 **cost of debt?**

5 **A.** I recommend a weighted average forward-looking cost of debt which reflects a blend of
6 75% long-term debt and 25% short-term debt. For Sprint Florida, I recommend a weighted
7 average forward-looking cost of debt of 7.43%. For Verizon Florida, I recommend a weighted
8 average forward-looking cost of debt of 7.22%.

9 **Q. Please describe your approach in analyzing the forward-looking cost of equity for**
10 **both Sprint Florida and Verizon Florida.**

11 **A.** In determining Sprint Florida's and Verizon Florida's respective forward-looking cost of
12 equity, I first analyzed the publicly traded telecommunication carriers listed in Value Line's
13 Investment Survey for Windows, November 2001 edition. I developed a set of financial criteria
14 to determine an appropriate index of companies which I believe are comparable to the financial
15 and business risks faced by Sprint Florida and Verizon Florida associated with the provision of
16 UNEs. In developing this index, I eliminated any company that received less than 75% of its
17 annual revenues from telecommunications operations. I also eliminated any company with
18 insufficient financial data to perform a financial analysis. Finally, I eliminated any company that
19 was the subject of an ongoing merger or acquisition. After I had determined the appropriate index
20 of companies, I then performed a DCF analysis and CAPM analysis to determine an appropriate
21 cost rate for common equity.

22 **Q. What is the theory behind the Discounted Cash Flow Model?**

23 **A.** The DCF model is based on two principles. First, investors value an asset based on the
24 future cash flows they expect to receive. Second, investors value a dollar received today more
25 than a dollar received in the future, meaning that they consider the time value of money.

1 Therefore, in a DCF analysis, the cost of equity is the discount rate that equates the present value
2 of expected cash flows associated with a share of stock to the present market price of the stock.
3 In Exhibit DJD-2, I have provided the basic DCF equation and defined the terms. The basic
4 model has three simplifying assumptions: 1) dividends are paid annually and grow at a constant
5 rate; 2) the price of the stock is determined on the dividend payment date; and 3) dividends
6 increase once a year starting one year from the dividend payment date.

7 **Q. Which Discounted Cash Flow model have you used in your analysis?**

8 **A.** I have used a two-stage annually compounded DCF model. An assumption behind the
9 basic DCF model is that dividends grow at a constant rate. However, growth in dividends can
10 vary from period to period. A two-stage DCF model, also known as a non-constant growth
11 model, allows for more specificity in the determination of dividend growth: a near term period
12 during which dividends are specifically forecasted, and a subsequent period of sustainable growth.
13 In Exhibit DJD-3, I have presented the equation for my two-stage annually compounded DCF
14 model and defined the terms. This model is consistent with the valuation practices of institutional
15 investors and financial analysts. An additional advantage of the two-stage model is that it can use
16 the specific dividend forecast from Value Line and then incorporate a long-term sustainable
17 growth rate. The two-stage model allows for more precision than the basic model.

18 **Q. What are the inputs for your Discounted Cash Flow Model?**

19 **A.** I used current stock prices for the companies in the Value Line index, specific dividend
20 forecasts for the initial growth period, and a sustainable or long-term growth rate. For current
21 stock prices, I first calculated the average of each company's high and low stock prices for the
22 month of October 2001. From these computations, I then calculated an average stock price for
23 the index, which is the input to my model. I used Value Line's forecasted dividends for the years
24 2002 and 2005. I assumed a constant growth rate between these years to estimate dividends for
25 the initial growth period. I then calculated the long-term growth rate using the earnings retention

1 method, also known as the b x r approach. The inputs for my earnings retention method are Value
2 Line's expected earned return on equity (r) and the expected retention rate (b) for 2005.

3 **Q. Have you included an allowance for issuance costs in your Discounted Cash Flow**
4 **model?**

5 **A.** Yes. My DCF model includes an allowance for issuance costs, calculated as 3% of the
6 stock price. The allowance for issuance costs added approximately 15 basis points to the overall
7 cost of equity. An allowance for issuance costs enables the telecommunication carrier to recover
8 the costs incurred when issuing common stock. Issuance costs include registration fees, legal
9 fees, underwriting fees, and printing and mailing expenses. Investors could not earn the necessary
10 return on their investment without an issuance cost adjustment. The sales price of the stock will
11 exceed the net proceeds to the company because it will incur issuance costs. A company can
12 incur these costs whether the stock is publicly traded or privately held. Conceptually, this
13 situation with common stock is similar to that of bonds and preferred stock. With bonds, for
14 example, the cost charged to ratepayers reflects issuance costs and is recovered over the life of
15 the bond. The cost to the company for a specific bond issue is the interest expense plus the
16 amortization of issuance costs divided by the principal value less the unamortized issuance costs.
17 The result is that the cost to the company is greater than the return to the creditor. Unlike bonds,
18 common stock does not have a finite life. Therefore, issuance costs cannot be amortized and must
19 be recovered by an upward adjustment to the allowed return on equity. This adjustment reflects
20 the fact that, due to the issuance costs, the company earns a return on an equity balance that is less
21 than the actual amount paid by investors. Historically, underwriting expenses associated with
22 issuing common stock have averaged 3% of gross proceeds.

23 **Q. What are the results of your Discounted Cash Flow analysis?**

24 **A.** The results of my DCF analysis shows that the forward-looking cost of equity for the
25 comparable telecommunications index is 11.45%. Exhibit DJD-4 shows the inputs and results

1 of my analysis.

2 **Q. What is the theory behind a Capital Asset Pricing Model?**

3 **A.** The CAPM was first introduced by William Sharpe in 1964. It extended modern portfolio
4 theory to introduce the notions of systematic and specific risk. CAPM divides the risk of holding
5 assets into systematic and specific risk. Systematic risk is the risk of holding the market portfolio.
6 This risk effects all securities and cannot be eliminated through diversification. Specific risk is
7 the risk which is unique to an individual asset. It represents the component of an asset's return
8 volatility which is not correlated with general market moves.

9 The theory underlying the CAPM is quite simple. The expected return on common equity
10 depends on the beta of that company's equity. The beta is a measurement of stock price volatility
11 relative to a broad market index. If a stock moves up or down twice as much as the market, it has
12 a beta of 2. If it moves one half as much as the market, its beta is 0.5. The CAPM models the
13 systematic risk of a particular asset.

14 **Q. Please describe your Capital Asset Pricing Model.**

15 **A.** In Exhibit DJD-5, I have listed the equation and the components of the CAPM. There are
16 three basic components to the CAPM: 1) the expected risk-free rate of return, 2) the stock's
17 expected relevant market risk called "beta," and 3) the expected return on the stock market taken
18 as a whole. The risk-free rate (R_f) is derived from the average projected yield of the 30-year
19 Treasury bond. Treasury bonds are a recognized bench mark for risk-free rates since there is little
20 risk of the U.S. Government defaulting on its bonds. The required market return (R_m) was
21 determined by using Value Line's database of listed companies and then screening those
22 companies to remove anomalies. In my opinion, removing anomalies such as companies that do
23 not pay dividends or have negative dividend growth, negative projected earnings growth or
24 growth greater than 20%, results in an accurate representation of the market return. A basic DCF
25 analysis was performed for each company in this broad market index. The result of the DCF

1 analysis was then used as the required market return. In my opinion, the average beta of the
2 telecommunications firms in my index is a reasonable proxy for companies engaged in the
3 provision of UNEs.

4 **Q. What are the results of your Capital Asset Pricing Model analysis?**

5 **A.** After using the CAPM to calculate an ROE, I made an adjustment for flotation costs by
6 adding 15 basis points to the CAPM results. The 15 basis points for flotation costs were
7 determined by calculating the difference between the DCF results using 3% flotation and the DCF
8 results using no flotation costs. After calculating an ROE using the CAPM and adjusting for
9 flotation costs, I calculated a cost of equity for the telecommunications index of 11.13%. Exhibit
10 DJD-5 presents the results of my CAPM analysis.

11 **Q. Given the results of your Discounted Cash Flow and Capital Asset Pricing Model**
12 **analyses, what did you determine for the cost of equity?**

13 **A.** Based on the results of my DCF and CAPM analyses, I calculated a range of return on
14 equity from 11.13% to 11.45%. Averaging these results produces a truncated midpoint of 11.3%.

15 **Q. What do you recommend as an appropriate ROE for both Sprint Florida and**
16 **Verizon Florida?**

17 **A.** The index of companies used to determine an appropriate ROE has an average bond rating
18 of single A. S&P reports Verizon Florida as having a single A bond rating, therefore I
19 recommend using the midpoint of 11.3% as its forward looking ROE. Sprint Florida has a bond
20 rating of triple B. For this reason, I would recommend adding a 25 basis point adjustment to the
21 calculated ROE mid point for Sprint Florida's forward looking ROE. This adjustment is similar
22 to what was recommended for Sprint Florida's long-term debt. Therefore, I recommend a ROE
23 for Sprint Florida of 11.55%. Ultimately, deciding the appropriate cost rate for common equity
24 is a subjective process, estimating ROE has always been a forward-looking concept. Once a
25 financial analysis is completed, a financial analyst must review the final calculation and decide

1 if it is a reasonable return when considering all the risks and rewards involved in the investment.
2 Based on my analysis and the facts presented in this testimony, I believe that I have calculated
3 the most equitable cost rates and the appropriate weighted ratios to be included in the forward-
4 looking weighted average capital structure for both Sprint Florida and Verizon Florida.

5 **Q. What forward-looking weighted average cost of capital do you recommend for both**
6 **Sprint Florida and Verizon Florida?**

7 **A.** I have calculated forward-looking cost rates for debt and common equity, and I have
8 determined the proper weight for each component to be included in the capital structure. Based
9 on my findings, I recommend a 9.90% return for Sprint Florida's forward-looking weighted
10 average cost capital. In addition, I recommend a 9.67% return for Verizon Florida's forward-
11 looking weighted average cost capital. In Exhibit DJD-6, I have provided a schedule of Sprint
12 Florida's and Verizon Florida's recommended forecasted weighted average capital structure.

13 **Q. Does this conclude your direct testimony?**

14 **A.** Yes.
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1 MR. SELF: Madam Chairman, KMC would move the
2 rebuttal testimony of Frank W. Wood consisting of 24 pages into
3 the record as though read.

4 CHAIRMAN JABER: The prefiled rebuttal testimony of
5 Frank Wood shall be inserted into the record as though read.

6 MR. SELF: And Mr. Wood did not have any exhibits
7 associated with his testimony. Thank you.

8 CHAIRMAN JABER: Thank you, Mr. Self.

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1 **I. INTRODUCTION**

2 **Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND TITLE.**

3 A. My name is Frank W. Wood. My business address is 1545 Raymond Diehl
4 Rd, Suite #350, Tallahassee, Florida. I am employed by KMC Telecom III,
5 Inc. ("KMC") as the City Director for Tallahassee.

6 **Q. BRIEFLY OUTLINE YOUR EDUCATIONAL BACKGROUND AND**
7 **BUSINESS EXPERIENCE IN THE TELECOMMUNICATIONS**
8 **INDUSTRY.**

9 A. After attending college at the University of Northern Colorado, my
10 telecommunications career began in 1986, when I was employed by
11 Southland Systems as the local Sales Manager for long distance service.
12 Through a number of mergers, I eventually became a National Account
13 Manger with MCI Telecommunications. In 1992, I resigned from MCI and
14 founded Communications Solutions, Inc., (d/b/a CSI Long Distance) in
15 Tallahassee, which was a switchless reseller for commercial customers. Our
16 niche was to provide customized billing solutions for law firms and trade
17 associations. In 1996, I sold CSI to Gulf Long Distance of Foley, Alabama.
18 Based upon my knowledge of the Tallahassee communications market and
19 my experience as a manager and salesman, I was hired by KMC in January of
20 1998 to begin the planning and development of KMC's entry into Tallahassee
21 as a competitive local exchange carrier. As KMC's City Director for
22 Tallahassee, I am responsible for all daily business functions in Tallahassee,

1 including sales, marketing, operations, profit and loss responsibility,
2 construction, customer care, and on-going business development.

3 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS**
4 **COMMISSION?**

5 A. No, I have not.

6 **Q. ON WHOSE BEHALF ARE YOU APPEARING IN THESE**
7 **PROCEEDINGS?**

8 A. I am appearing on behalf of KMC as a certificated alternative local exchange
9 carrier ("ALEC" or, as these competitive local carriers are also known,
10 "CLEC") operating in both the Sprint and Verizon market areas.

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

12 A. The purpose of my testimony is to provide KMC's position on the proposals
13 of Sprint and Verizon to substantially increase the price of several key UNEs
14 that are required by facilities based ALECs such as KMC. KMC greatly
15 appreciates the fact that this Commission is investigating the cost studies and
16 proposed pricing for Sprint and Verizon UNEs. As I will discuss, however,
17 this proceeding presents the CLEC industry with a very difficult dilemma.
18 Facilities based competitors such as KMC need certain UNEs from ILECs
19 such as Sprint and Verizon, and the CLECs need for those prices to be lower.
20 But in the current market, the cost of undertaking the significant effort
21 necessary to analyze, evaluate, and substantially challenge the ILEC cost
22 studies is simply beyond our means. In order to provide service to our

1 customers, we do not have the staff or financial resources available to us to
2 contest the ILEC cost studies.

3 I am participating in this case as a field level manager, offering what I
4 believe is valuable and relevant information about how a facilities based
5 CLEC operates in the Sprint and Verizon markets. I also discuss what a
6 facilities based CLEC needs in order to get started, grow the business, reach
7 profitability, and then sustain it. The CLECs very much need UNEs
8 purchased from the ILECs, and we need UNEs priced in a manner that makes
9 them affordable to use.

10 To bridge the gap, we desperately need this Commission's help.
11 Florida is one of the largest telecommunications marketplaces in the country.
12 This Commission has one of the largest Staffs in the country. Use your Staff.
13 Turn them loose on the Sprint and Verizon cost studies, and let them dig into
14 them and give them the independent review the studies require and this
15 industry need. We urge you in our strongest voice to live up to your
16 legislative mandate and your recently revised mission statement and promote
17 competition by undertaking the only detailed, independent investigation these
18 cost studies will receive. The few real CLECs that are now left need for you
19 to bring the full power of your vast resources to bear on these cost studies and
20 set cost based UNE rates that will foster the growth of facilities competition
21 and not bury it.

22

II. BACKGROUND ON KMC

1
2 **Q. CAN YOU PLEASE DISCRIBE KMC AND ITS OPERATIONS.**

3 A. Yes. For the past several years, the Commission has heard various arguments
4 about the status of CLECs. Unfortunately, much of the talking has been from
5 the ILECs. While some Interexchange Carriers also operate as ALECs and
6 have brought various competitive matters before the Commission, these
7 companies do not have the same issues or concerns as a facilities based
8 CLEC such as KMC, which does not have a legacy as a long distance service
9 provider.

10 KMC was founded on the eve of the passage of the
11 Telecommunications Act of 1996 as a competitive local service provider.
12 KMC's business plan has been to build state of the art local networks in the
13 Tier III markets, those metropolitan areas that generally have a population
14 between 100,000 and 750,000. We have augmented this plan to also be a
15 nationwide provider of next generation data services for Interexchange
16 Carriers and Tier I and II Internet providers.

17 KMC is the kind of CLEC envisioned by the Telecommunications Act
18 of 1996 – KMC is a facilities based carrier utilizing fiber-based integrated
19 communications networks that offer a full range of advanced voice, data, and
20 Internet infrastructure services across the eastern half of the United States.
21 Dedicated to delivering high-quality and reliable services at highly
22 competitive prices in each of its markets, KMC provides single-source

1 product and service availability and maintains a strong commitment to
2 localized customer care to the communities we service.

3 **Q. WHERE HAS KMC BUILT ITS LOCAL NETWORKS?**

4 A. KMC today has local, facilities based networks in 37 metropolitan areas.
5 Our focus on Tier III markets was done for a number of reasons, but
6 ultimately we felt that smaller markets were under-served, especially in
7 offering the small and medium sized businesses in those communities a real
8 competitive alternative. KMC believes that an appropriate capital
9 investment in infrastructure in these markets will meet an untapped need
10 that will give us a firm foundation on which to execute a solid business
11 plan.

12 **Q. DOES KMC SERVE RESIDENTIAL MARKETS?**

13 A. It would be great to serve residential markets – once you deploy a network,
14 you want to put as many customers as possible on it. However, given our
15 deployment of SONET rings, the cost to build laterals, and the cost to
16 collocate at the ILEC central offices or at ILEC digital loop carrier
17 equipment (collocation construction costs, cards, cross connections, back
18 haul transport, power, etc), it is not cost effective at this time to serve
19 residential customers through our own networks. We have considered a
20 residential service via UNEs, but the cost is greater to purchase the service
21 from the ILEC than what we can retail it for.

22 **Q. HOW MANY OF THE 37 MARKETS WHERE KMC HAS BUILT**

1 **NETWORKS ARE IN FLORIDA?**

2 A. Florida is the state with the largest KMC presence – we have built networks
3 in seven Florida markets. These seven markets include two Sprint markets,
4 Tallahassee and Ft. Myers, two Verizon markets, Greater Pinellas and
5 Sarasota, and three BellSouth markets, Brevard, Daytona Beach, and
6 Pensacola.

7 **Q. HOW DOES KMC DEPLOY ITS NETWORKS AND BUSINESS**
8 **OPERATIONS?**

9 A. In each of its local markets, KMC invests in a network infrastructure that is
10 designed to reach approximately 80 percent of the business access lines
11 through either a direct connection or unbundled network elements leased
12 from the ILEC. In each market, KMC will have its own #5ESS central office
13 switch and collocate facilities at the ILEC's tandem and other ILEC central
14 offices. KMC builds a fully redundant fiber backbone ring utilizing
15 Synchronous Optical Network ("SONET") technology that allows KMC to
16 connect to Interexchange Carriers and an assortment of commercial
17 customers, where practical, and offer a full array of local and long distance
18 voice and data services.

19 **Q. HOW SUCCESSFUL HAS KMC BEEN IN ITS BUSINESS PLAN?**

20 A. At the end of the third quarter 2001, KMC's gross networks, property, and
21 equipment represented a \$1.5 billion investment. Total lines (DS-0
22 equivalents -- the combination of access lines and dedicated lines) grew to

1 over 3.6 million at the end of the third quarter 2001, representing a 16
2 percent increase over KMC's total at the end of the second quarter 2001,
3 and 95 percent higher than reported at the end of the third quarter 2000.
4 KMC continues to service 99.9 percent of the total lines on its networks
5 either by direct connections or UNEs. Total customers as of September 30,
6 2001, were 15,301, a 6 percent increase compared to last quarter, and 53
7 percent higher than the customer base at the end of the third quarter of
8 2000. In 2001, KMC continued the trend of positive quarterly Adjusted
9 EBITDA. At the end of the third quarter of 2001, Adjusted EBITDA was
10 \$24.2 million versus \$3.4 million in the second quarter of 2001.

11 **Q. SINCE YOU ARE THE CITY DIRECTOR FOR TALLAHASSEE,**
12 **CAN YOU PLEASE DESCRIBE YOUR TALLAHASSEE**
13 **OPERATIONS IN MORE DETAIL?**

14 A. In Tallahassee, KMC's central office switch is located in the
15 Commonwealth Center, and we are collocated at the Calhoun, Blairstone,
16 and Willis Road Sprint central offices. We have approximately 45 route
17 miles of fiber that very generally forms a circle around Tallahassee, and we
18 have 32 lateral builds to either IXCs or commercial and government
19 customers. We can serve a small business with just a few phones line via a
20 2-wire analog loop UNE, a mid-sized customer with multiple business lines
21 via a DS-1 UNE, a large commercial customer via a direct fiber connection
22 to our network, or a multi-tenant building where we have our own fiber into

1 the building that enables us to serve tenants within the building completely
2 on our network.

3 We first began to provide service in Tallahassee in November 1998.

4 Our product mix includes POTS service, business trunks, ISDN, point to
5 point data, voice mail, dedicated Internet service, long distance, and large
6 bandwidth applications such as a full DS-3 of Internet service for a local
7 software company and an OC-3c access link for Florida State University.

8 Our total capital investment in Tallahassee is approximately \$22,500,000.

9 Our Tallahassee operation became EBITDA positive in September of 2000.

10 **Q. DOES THIS MEAN THAT KMC'S OPERATIONS ARE**
11 **FINANCIALLY SECURE FOR THE FUTURE?**

12 A. No, and to assume that we are now "safe" would be tragic. The EBITDA
13 which the Tallahassee office has generated is barely enough to begin
14 payment on the debt service we incurred. The fact is that in order to
15 succeed we need to continue our revenue growth and positive
16 improvements to EBITDA. If CLEC's cannot reach positive cash flow and
17 SUSTAIN it, then our industry is DEAD. And that of course means that
18 Florida customers would not be able to receive the benefits of a competitive
19 telecommunications marketplace.

20 **Q. HOW DO THE PRICING OF UNEs PLAY INTO KMC'S BUSINESS**
21 **PLAN AND THE FUTURE OF COMPETITION?**

22 A. It is KMC's intent to bring service to every possible customer that we can

1 on our own network so as to maximize our infrastructure investment. That
2 said, it is clear that as a new entrant in Tallahassee, Ft. Myers, Greater
3 Pinellas, Sarasota, or in any of the markets we serve in Florida or
4 elsewhere, the overwhelming majority of our customers must be served via
5 UNE's. Why? Simple math. A single location customer that has 14 lines
6 and pays approximately \$420 per month for local service can't afford the
7 lateral construction cost to extend our network, which may cost on average
8 \$30,000 plus the associated optical electronics, which may cost an
9 additional \$20,000. Likewise, it would take KMC nearly 10 years to
10 recover that \$50,000 investment at \$420 a month. That's bad math and a
11 bad business decision.

12 Until you begin to reach the economies of scale where you have
13 facilities everywhere, the only realistic way that a facilities carrier can bring
14 competitive choice to that customer is to deploy UNEs. And, of course,
15 UNEs are one of the three legs of local competition that is the basis for the
16 Telecommunications Act of 1996. Everyone realized that if a CLEC had to
17 completely build a local network that would replicate all of the connections
18 available to the ILEC, competition in local service would never happen.

19 **Q. WHY HAS KMC INTERVENED AT THIS POINT IN THIS**
20 **PROCEEDING AND PROFFERED YOUR TESTIMONY?**

21 A. As I said in my introduction, I'm the City Director for Tallahassee, and the
22 person who is in the trenches trying to bring competition to this market. I

1 have a budget with limited financial resources, a small but dedicated staff,
2 and we have to build a network, put customers on that network, and build
3 both our customer base and the network. The other City Directors for
4 KMC are in a similar situation as Tallahassee.

5 Our company is very young – as is the industry itself. As a new
6 entrant in the telecommunications marketplace, we have to achieve a
7 number of different goals in order to be successful. Initially, our regulatory
8 involvement was limited to getting certificated, filing and updating tariffs,
9 negotiating and sometimes arbitrating interconnection agreements with the
10 ILECs, and dealing the usual regulatory compliance and customer relations
11 issues. These are all things that we must do to be in the business, and we
12 accept them.

13 But I do not believe that anyone, not in their wildest imagination,
14 would have envisioned that six years after the passage of the 1996 Telecom
15 Act that the industry would still be fighting for its basic right to exist. Who
16 would have foreseen that six years after the 1996 Act became law that we
17 would still be embroiled in regulatory proceedings fighting with the ILECs
18 over reciprocal compensation, basic UNE rates, operational support
19 systems and interfaces, and other ongoing business problems. The current
20 situation is far beyond the regulatory burdens any start up business should
21 have to face, and certainly way more than was promised when the 1996 Act
22 was passed.

1 **Q. SO HOW DOES A NEW ENTRANT BALANCE THE REGULATORY**
2 **AND LITIGATION ISSUES WITH ITS ONGOING OPERATIONAL**
3 **NEEDS?**

4 A. On a financial statement, “regulatory” is an expense, unlike customers
5 which are considered “revenue.” As KMC has weathered the storms of the
6 last six years, our company has had to make tough, but realistic
7 management decisions. Where do we spend our capital? Is it better to
8 spend it building networks and paying for UNEs that are too high, or should
9 we invest in lawyers and what to me seems like endless rounds of
10 litigation?

11 For KMC, the decision has been simple – build networks and get
12 revenue. Why? Because our investors deserve a return on their investment
13 – and that is a basic fact of our national economy. But in the present
14 situation, we are faced with a really horrible choice. We can succumb and
15 accept the outrageous UNE price increases now before the Commission
16 which would drastically alter our ability to use UNEs, and thus limit our
17 ability to compete for customers, or we can try to give the Commission our
18 CLEC business perspective. It would be nice to be able to hire the experts
19 necessary to analyze the ILEC UNE cost studies, but the money simply is
20 not there. It’s my understanding that while some of the other ALECs have
21 retained outside experts to evaluate the Verizon cost study, that no one is
22 undertaking the same effort for Sprint’s cost study.

1 Competition is great for customers, but without competitors there to
2 offer those choices, competition is an empty promise. I can tell you what
3 it's like to run a CLEC operation on a day-to-day basis and what the effect
4 of the proposed UNE rates would have on my ability to offer service to
5 customers. Unfortunately, we cannot rely upon other CLECs to spend their
6 money since most of them are bankrupt or in the same boat as KMC. I am
7 here to say that there is no other reasonable alternative but for this
8 Commission to use its vast resources to comprehensively review the cost
9 studies and set prices that will work. You control whether real competition
10 is given the chance envisioned by the 1996 Telecom Act or whether the
11 vast majority of customers will remain hopelessly monopolized.

12 13 **III. SPRINT AND VERIZON UNE PROPOSALS**

14 **Q. HAVE YOU REVIEWED THE COST STUDIES, TESTIMONY, AND**
15 **EXHIBITS SUBMITTED BY SPRINT AND VERIZON IN THIS**
16 **PROCEEDING?**

17 A. I have reviewed some of the materials submitted by Sprint and Verizon.
18 Since I am not an economist or cost study expert, I have not examined the
19 cost studies or all of the supporting testimony. However, I have reviewed
20 those Sprint and Verizon exhibits that detail their proposed UNE rates,
21 focusing my review on those UNEs KMC uses or may use. In addition, I
22 have also reviewed the supporting testimony filed by Sprint's witness Mr.

1 Hunsucker and Verizon's witness Mr. Dennis Trimble.

2 **Q. DO YOU HAVE ANY GENERAL OBSERVATIONS REGARDING**
3 **THE SPRINT AND VERIZON TESTIMONY THAT YOU HAVE**
4 **REVIEWED?**

5 A. Yes, I do. In general, if you read just the ILEC testimony, you may conclude
6 that their proposals sound perfectly reasonable. However, the ILEC
7 perspective on how the CLECs operate and use UNEs is incorrect, and the
8 ILEC pricing proposals, if adopted, will make the present bad situation
9 significantly worse.

10 **Q. CAN YOU PLEASE EXPLAIN HOW THE ILEC TESTIMONY IS**
11 **WRONG?**

12 A. Yes. In general, the ILECs fail to recognize the impact on competition of
13 their ubiquitous local networks, which have been established over many
14 decades at ratepayer expense and in fulfillment of their monopoly obligations
15 to serve everyone. It would be great if the CLECs could instantly replicate
16 the ILEC networks. But this is not the situation today. Rather, we must rely
17 upon investor capital in a very different marketplace without the opportunity
18 for any guaranteed return, and ultimately we must provide our investors with
19 a return on their investment while growing the business. As Mr. Hunsucker
20 acknowledges at pages 6 and 7 of his testimony, "Facility-based entrants are
21 confronted by the formidable hurdle of having to devote substantial capital
22 resources, over an extended period of time, to construct a local network prior

1 to winning any customers or generating any revenues.” This is certainly true.

2 However, Mr. Hunsucker’s remarks over the next two pages, where
3 he discusses the importance of UNE prices being set correctly so that a new
4 entrant will get the right “pricing signal” for the “make or buy” decision in
5 acquiring network facilities, does not reflect how CLEC business decisions
6 are made. The Verizon testimony has similar problems. Moreover, the prices
7 proposed by both Sprint and Verizon will not help promote competitive entry
8 or expansion of competitive options for customers.

9 **Q. HOW DOES THE ILEC TESTIMONY FAIL TO REFLECT HOW NEW**
10 **ENTRANTS MAKE NETWORK DEPLOYMENT DECISIONS?**

11 A. As I said, the ILECs have had many years, under a completely different
12 regulatory structure, to build and deploy their networks. During my tenure
13 with KMC in Tallahassee, I have had to make the tough business decisions
14 regarding the deployment of our network in a manner that gets our foot in the
15 door and gives us the opportunity to be a long-term, viable competitor. It is
16 critical to understand that facilities based competitors today must deploy their
17 networks in phases, and not all at once. In our first phase, we deployed our
18 switch and built the first leg of our SONET backbone. That first leg of our
19 backbone was deployed so that we would connect our switch to the Sprint
20 tandem, key Sprint central offices, other local and long distance competitors’
21 points of presence, and, certainly, major commercial buildings or large users
22 who would benefit from direct fiber connections at the DS-1 or DS-3 levels

1 and higher.

2 As we continue to market our services and our reputation within the
3 community becomes established, we continue to build additional segments to
4 reach other parts of the community not served by our existing fiber backbone.
5 In the four years we have been operating in Tallahassee, we have increased
6 our fiber backbone by approximately 20 miles, to its current length of 45 fiber
7 miles. Even with the current national economic downturn, we will still make
8 route expansions when we can ensure reasonable rates of return on our
9 investment. Our experience in the Ft. Myers, Greater Pinellas, and Sarasota
10 markets has been similar.

11 Once we have fiber deployed, we have the ongoing task of getting
12 customers to connect to our network. As I have already discussed,
13 construction of the necessary laterals from the backbone to specific
14 commercial buildings or single customers is a costly and time consuming
15 undertaking. For example, one major building in downtown Tallahassee
16 denied KMC access to its tenants for several months while negotiating a
17 lengthy and expensive access agreement that would permit us to bring our
18 fiber into the building – requirements rarely imposed upon an ILEC.
19 However, you do not even get to the point of building the lateral to your
20 network for the average customer until you have several customers for whom
21 you can spread out the cost of that lateral. Since you do not solicit customers
22 and keep them unserved in your back pocket until you have enough signed

1 contracts to then build a lateral, the only choice is to resell the ILEC's service
2 or use UNEs.

3 **Q. HOW REALISTIC IS IT FOR A CLEC TO RESELL AN ILEC'S**
4 **SERVICES?**

5 A. For a facilities based carrier, the resale of ILEC services is usually a very
6 undesirable alternative since it leaves you totally dependent upon the ILEC.
7 From a business and especially a customer relations standpoint, resale is at
8 most a very short term solution, one that you use only until you can build
9 your network to the customer or you can serve the customer through UNEs.

10 **Q. SO USE OF UNEs IS A GOOD INTERIM STEP?**

11 A. The UNE alternative is not without its difficulties, but they remain a vital
12 component. UNEs certainly give you a much greater degree of control and
13 ability to serve the customer since your own switch provides the dial tone and
14 related services made available to the customer. However, putting aside for a
15 moment the ILEC's prices for UNEs, to use UNEs requires the CLEC to also
16 collocate facilities at one or more ILEC central offices, another cost and
17 hassle to the new entrant. However, being collocated still does not get you to
18 the customer. In our experience, notwithstanding being collocated, we have
19 still been denied the opportunity to serve some customers because of the way
20 the ILEC has deployed digital loop carriers and used fiber distribution instead
21 of copper. In other instances, after we've received a Firm Order Confirmation
22 from the ILEC, we are notified just before the scheduled cut that "No

1 Facilities” are available. The explanation is that no copper facilities exist
2 from the customer’s demarcation point to the KMC collocation point at the
3 DS-0 UNE level. These denials and delays are terribly frustrating to us and
4 especially to our customers who don’t want to deal with all of the behind the
5 scenes technical stuff that must be done to institute service. Still, we must
6 have UNEs and the associated collocation in order to provide service.
7 Even with our desire to place customers on our own facilities, we fully
8 understand that approximately 80 percent or more of our revenue for local
9 service will come from our services provided through UNEs.

10 **Q. YOU HAVE SAID THAT THE SPRINT AND VERIZON PRICING**
11 **PROPOSALS ALSO DO NOT HELP PROMOTE COMPETITIVE**
12 **ENTRY OR EXPANSION OF COMPETITIVE OPTIONS. CAN YOU**
13 **PLEASE EXPLAIN?**

14 A. The proposed Sprint and Verizon UNE prices for the key UNEs required by
15 KMC have the potential to crush the CLEC industry. These proposed
16 changes can virtually wipe-out all of the gains which we have made and
17 would likely halt all competition. We urge the Commission to follow the
18 recent actions of the New York Public Service Commission which lowered
19 the Verizon UNE loop prices to an average of \$11.49, and take a similar bold
20 step here and set UNE prices at a level that makes it economic for us to stay
21 in these Tier III markets where KMC is often the only facilities competitor to
22 the ILEC.

1 **Q. CAN YOU BE MORE SPECIFIC REGARDING THE PRICING**
2 **PROBLEMS WITH THE ILEC PROPOSALS FOR UNEs?**

3 A. Two of the more important UNEs utilized by KMC are 2 wire loops and DS-
4 1 loops. Let's look at the simple 2 wire loop for a moment.

5 Sprint is proposing to collapse the existing 6 bands for UNE loops
6 into 3 bands. Sprint's current standard rates for 2 wire analog loops by band
7 are: Band 1, \$10.78; Band 2, \$15.41; Band 3, \$20.54; Band 4, \$27.09; Band
8 5, \$39.66; Band 6, \$74.05. The Tallahassee Calhoun central office, which
9 generally serves the downtown area, has been in Band 1. The Tallahassee
10 Willis Road central office, serving north of downtown and inside I-10, has
11 been in Band 2. The Tallahassee Blairstone Road central office, serving the
12 southeast side Tallahassee, has been in Band 3. As I said before, KMC is
13 collocated in all three of these central offices.

14 The effect of moving to three bands would be to nearly double the
15 rate we currently pay for a Band 1 central office. For example, that same 2
16 wire analog loop would be priced at \$21.22 in Band 1, \$34.52 in Band 2,
17 and \$68.81 in Band 3. All of the central offices in which KMC is
18 collocated would now be under the Band 1 rate, which represents a
19 substantial increase in cost of operation.

20 **Q. HOW DO THE VERIZON UNE PRICES COMPARE?**

21 A. Unlike Sprint, Verizon is recommending a single, non-deaveraged 2 wire
22 UNE loop rate of \$26.17. Alternatively, if the Commission were to require

1 Verizon to deaverage loops, Verizon would propose three pricing bands,
2 which would be: Zone 1, \$22.17; Zone 2, \$30.91; Zone 3, \$77.39. When
3 compared to the KMC interconnection agreement with Verizon, the \$26.17
4 average price looks like a decrease from the contract amount of \$33.08.
5 However, because of volume and term commitments, the proposed \$26.17
6 rate would be an increase, with the proposed banded rates representing a
7 larger increase.

8 **Q. HOW DO THESE PRICES COMPARE TO THESE ILECs' RETAIL**
9 **RATES?**

10 A. The proposed Sprint and Verizon UNE rates are usually higher, and in some
11 cases substantially higher than the retail rates charged for their end user local
12 services. However, it is important to understand that it is not always easy to
13 make meaningful comparisons because of the way the ILECs package and
14 sell their services. For example, KMC lost a customer back to Sprint because
15 Sprint offered a key system with a line charge of only \$19.75. Prices at these
16 levels look like a price squeeze when compared to the UNE prices now
17 proposed.

18 In light of these pricing proposals and our marketplace experience, I
19 find Sprint's actions in this case as an ILEC especially troubling in view of
20 what is going on in the BellSouth phase of this docket. In the BellSouth
21 proceeding, Sprint has advocated for, and benefited from, much lower rates
22 than what Sprint and Verizon are advocating here. Because of the lower

1 BellSouth UNE rates, we have the situation where Sprint, operating as an
2 ALEC in the BellSouth territory, is in a better position to compete with
3 BellSouth than KMC can compete with Sprint's ILEC operations in
4 Tallahassee or Ft. Myers.

5 **Q. CAN YOU ALSO COMMENT ON THE PROPOSED DS-1 PRICES?**

6 A. At the DS-1 level, the principles remain the same as the DSO level UNE – a
7 substantial cost increase. Current DS-1 UNE prices are as follows: Band 1,
8 \$64.79; Band 2, \$74.96; and Band 3, \$83.83. The proposed pricing by Sprint
9 for the same service would be \$206.76. For Verizon, KMC pays rates as low
10 as \$160.00. Verizon's proposed price would be \$240.52

11 Provisioning service over DS-1 UNEs is an efficient manner of
12 providing service for both parties. The ILEC simply uses two pairs of
13 copper for the loop, and installs a "smart Jack" at the customer premise. It
14 is our opinion that a UNE DS-1 should generally cost no more than two
15 UNE DS-0s.

16 **Q. ARE THERE ANY OTHER CONSEQUENCES OF THE PROPOSED**
17 **DS-1 UNE PRICES?**

18 A. If the proposed rates are approved, it would drastically increase the threshold
19 for the minimum number of lines in service that are required to justify the
20 capital necessary to install the channel bank which facilitates the voice
21 service over a DS-1. This is another blatant example of squeezing a
22 competitor from the marketplace.

1 **Q. MR. HUNSUCKER DISCUSSES AT PAGES 12-13 HOW SPRINT'S**
2 **RETAIL PRICES SHOULD BE IGNORED IN SETTING UNE RATES**
3 **AND MR. TRIMBLE AT PAGE 6 DISCUSSES HOW UNE RATES**
4 **AND RETAIL RATES ARE INEXTRICABLY LINKED. DO YOU**
5 **AGREE?**

6 A. I believe the point of both witnesses is that since local rates are below cost,
7 the Commission should not compare these proposed UNE rates to their
8 retail rates. This attitude reminds me of that scene in the Wizard of Oz
9 where the Great Wizard admonishes Dorothy to "pay no attention to that
10 man behind the curtain!" How can you possibly avoid retail rates when
11 setting wholesale rates?

12 The issues associated with the levels of local rates are obviously not
13 before this Commission at this time. But the Commission cannot be setting
14 rates in a vacuum. Local rates may need to go up at some time, but the
15 Commission must today recognize that the services the CLECs are selling
16 are competing against the retail services being sold by the ILECs. How are
17 we supposed to sell local service when one of the key components we need
18 costs us more than what Sprint or Verizon are selling the full package of
19 retail services? Keep in mind that the prices I have discussed are just part
20 of the UNE picture. Depending upon the service we are providing, we may
21 be required to purchase additional UNEs, such as NIDs or cross connects,
22 in our collocations costs, or pay high nonrecurring charges which only

1 further exacerbate the impact of the proposed UNE prices and our ability to
2 compete with ILEC retail prices.

3 **Q. BUT DOESN'T THE FLORIDA PSC HAVE AN OBLIGATION TO**
4 **SET COST-BASED UNE PRICES?**

5 A. I am no expert on what the 1996 Telecom Act or the FCC rules, and the
6 Commission should certainly follow the requirements of the law. However, I
7 am suggesting that in following the law, the Commission should do three
8 things.

9 First, in analyzing the cost studies, the Commission will have to make
10 certain assumptions or otherwise exercise its discretion in accepting or
11 rejecting information submitted by Sprint and Verizon. In undertaking your
12 evaluation, all such assumptions should be made in favor of results that
13 promote competition.

14 Second, you cannot end up with UNE prices that are above ILEC
15 retail rates. I recognize that the Commission may be in a difficult position
16 because of end user rates. But to ignore end user rates in setting UNE rates
17 will result in UNE prices that no CLEC can afford. And if we cannot afford
18 to buy UNEs, you have effectively ended any chance of competition.

19 Lastly, you should carefully consider the proposed geographic
20 deaveraging for loop prices, and if necessary, adopt more rather than fewer
21 bands. This seems especially true for Sprint where the present 6 band
22 approach results in rates that are at least tolerable Band 1 and Band 2 offices.

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Q. DO YOU HAVE ANY OTHER COMMENTS FOR THE COMMISSION REGARDING THE SPRINT AND VERIZON PROPOSED UNE PRICES?

A. While preparing this testimony, I learned that Alltel, a CLEC with which KMC competes in Tallahassee, announced that it was curtailing its CLEC operations in Tallahassee and in several other markets. Alltel's demise cannot be blamed on poor marketing or effort, as KMC certainly felt their competitive presence in Tallahassee. Professionally, they certainly had the technical expertise and financial resources to be a viable provider. Based upon what I have heard and read, it appears that Alltel simply couldn't see the light at the end of the tunnel in regards to profit. Looking at the UNE rates proposed in this proceeding, the road to profitability becomes a brick wall.

Q. CAN YOU PLEASE SUMMARIZE YOUR TESTIMONY?

A. We'd like to be able to provide you with a detailed economic analysis of the Sprint and Verizon UNE proposals, but as a young company KMC simply doesn't have the luxury of unlimited budgets. At this important time in our history, and the history of the telecommunications industry, it is critical that UNE prices for Sprint and Verizon be set at a level that would further competition and not deny us the opportunity to provide competitive choices to customers. In the final analysis, only this Commission has the resources

1 that can comprehensively evaluate the ILEC UNE proposals. We urge you to
2 conduct this needed evaluation and set new UNE rates that will help give
3 customers a real competitive choice.

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

5 **A. Yes, it does.**

1 CHAIRMAN JABER: Z-Tel?

2 MR. McGLOTHLIN: Z-Tel's witness has three
3 testimonies. The first is the revised rebuttal testimony of
4 Dr. George Ford dated January 30th. We request that it be
5 inserted into the record at this point.

6 CHAIRMAN JABER: The revised rebuttal testimony of
7 George S. Ford shall be inserted into the record as though
8 read.

9 MR. McGLOTHLIN: Dr. Ford had 11 exhibits attached to
10 the revised rebuttal designated GSF-1 through 11. I'd move
11 those into evidence.

12 CHAIRMAN JABER: GSF-1 through GSF-11 shall be
13 identified as Composite Exhibit 7. And Composite Exhibit 7
14 shall be admitted into the record.

15 (Composite Exhibit 7 marked for identification and
16 admitted into the record.)

17 MR. McGLOTHLIN: Dr. Ford also submitted surrebuttal
18 testimony on March 18th. I request that it be inserted in the
19 record at this point.

20 CHAIRMAN JABER: The prefiled surrebuttal testimony
21 of George S. Ford shall be inserted into the record as though
22 read.

23 MR. McGLOTHLIN: Dr. Ford attached 11 exhibits to the
24 surrebuttal. They are designated with SR. I ask that they be
25 admitted into evidence at this point.

1 CHAIRMAN JABER: What are the initials,
2 Mr. McGlothlin?

3 MR. McGLOTHLIN: GSFSR for surrebuttal.

4 CHAIRMAN JABER: GSFSR-1 through GSFSR-11; is that
5 correct?

6 MR. McGLOTHLIN: Correct.

7 CHAIRMAN JABER: Shall be identified as Composite
8 Exhibit 8. And Composite Exhibit 8 is admitted into the
9 record.

10 (Composite Exhibit 8 marked for identification and
11 admitted into the record.)

12 MR. McGLOTHLIN: And, finally, Dr. Ford submitted
13 supplemental testimony on March 18th. I request that it be
14 inserted into the record at this point.

15 CHAIRMAN JABER: The supplemental direct testimony of
16 George S. Ford shall be inserted into the record as though
17 read.

18 MR. McGLOTHLIN: And attached to the supplemental
19 testimony was a single exhibit designated GSFSR-12. The SR was
20 an unfortunate mistake, but that's the way it appears.

21 CHAIRMAN JABER: Okay. Exhibit 8 -- I'm sorry.
22 Exhibit 9 is GSFSR-12. And Exhibit 9 is admitted into the
23 record.

24 (Composite Exhibit 9 marked for identification and
25 admitted into the record.)

1 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A. My name is George S. Ford. I am the Chief Economist for Z-Tel
3 Communications, Incorporated (Z-Tel). My business address is 601 South
4 Harbour Island Boulevard, Suite 220, Tampa, Florida 33602.

5 **Q. BRIEFLY DESCRIBE YOUR EDUCATIONAL BACKGROUND AND**
6 **RELATED PROFESSIONAL EXPERIENCE.**

7 A. I received a Ph.D. in Economics from Auburn University in 1994. My graduate
8 work focused on the economics of industrial organization and regulation, with
9 course work emphasizing applied price theory and statistics. In 1994, I became
10 an Industry Economist for the Federal Communications Commission's
11 Competition Division. The Competition Division of the FCC was tasked with
12 ensuring that FCC policies were consistent with the goals of promoting
13 competition and deregulation across the communications industries. In 1996, I
14 left the FCC to become a Senior Economist at MCI WorldCom where I was
15 employed for about four years. While at MCI WorldCom, I performed economic
16 studies on a variety of topics related to federal and state regulatory proceedings.
17 In May 2000, I became Z-Tel's Chief Economist.

18 In addition to my responsibilities at Z-Tel, I maintain an active research
19 agenda on communications issues and have published research papers in a
20 number of academic journals including the Journal of Law and Economics, the
21 Journal of Regulatory Economics, and the Review of Industrial Organization,
22 among others. I am also a co-author of the chapter on local and long distance

1 competition in the International Handbook of Telecommunications Economics. I
2 often speak at conferences, both at home and abroad, on the economics of
3 telecommunications markets and regulation.

4 **Q. COULD YOU DESCRIBE Z-TEL'S SERVICE OFFERINGS?**

5 A. Z-Tel is a Tampa-based, integrated service provider that presently provides
6 competitive local, long distance, and enhanced services to residential consumers
7 in thirty-five states, including New York, Pennsylvania, Massachusetts, Texas,
8 Michigan, Georgia, Illinois, among others. Z-Tel plans to expand nationally as the
9 unbundled network element platform ("UNE-P") becomes available at TELRIC
10 rates. The company's goal is to offer a competitive service to the residential
11 consumers of every state.

12 Z-Tel's service is not just a simple bundle of traditional
13 telecommunications services. Z-Tel's service is unique in that it combines its
14 local and long distance telecommunications services with Web-based software.
15 This consideration enables each Z-Tel subscriber to organize his or her
16 communications, including email, voicemail, fax, and even a Personal Digital
17 Assistant ("PDA"), by accessing a personalized web-page via the Internet. In
18 addition, the personal Z-Line number can be programmed to follow the customer
19 anywhere he or she goes, via the "Find Me" feature. Other service features
20 include low long distance rates from home or on-the-road and message
21 notification by phone, email, or pager. Customers can also initiate telephone calls

1 (including conference calls in the near future) over the traditional phone network,
2 using speed-dial numbers from their address book on their personalized web page.

3 **Q. WHAT INTEREST DOES Z-TEL COMMUNICATIONS HAVE IN THIS**
4 **PROCEEDING?**

5 A. Z-Tel's service is a bundle of many different communications services including
6 voicemail, email, fax, Internet, PDAs, and local and long distance
7 telecommunications into an easy-to-use communications control center. An
8 important element of that bundle is local exchange telecommunications service.
9 To provide the local exchange portion of its service offering, Z-Tel must purchase
10 unbundled network elements from incumbent local exchange carriers like Verizon
11 and Sprint. At present, Z-Tel's primary means of providing local exchange
12 service provision is UNE-P. Because Z-Tel is dependent upon the local exchange
13 carrier's UNEs to provide service at this time, Z-Tel has a strong interest in
14 ensuring the rates established for UNEs are TELRIC compliant and conducive to
15 competitive entry.

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

17 In my testimony I will address two issues. The first is the cost of capital that should be
18 used for Verizon and Sprint when calculating the costs upon which to base UNE rates.
19 The cost of capital, or weighted average cost of capital ("WACC"), is an important
20 element of the cost studies in that small changes in the WACC can affect materially most
21 UNE rates. I show, based on this Commission's own Order, that the approach of Verizon
22 witness Dennis Vander Weide to the task of quantifying Verizon's cost of capital is
23 lacking. I recommend that, in lieu of his approach, the Commission should instead

1 update the well reasoned analysis that it adopted in the BellSouth phase of this
2 proceeding.

3 I then provide a framework that gives guidance on the relative costs of UNE
4 between Verizon-Florida and BellSouth. This analysis shows that the cost of UNEs for
5 Verizon-Florida is slightly less than for BellSouth-Florida. Thus, Verizon's UNE rates
6 should be no more than the UNE rates set in the BellSouth proceeding. While the UNE
7 rates for BellSouth are not yet finalized, a comparison of the rates determined in the
8 BellSouth Cost Order indicates that, notwithstanding the assertions of Verizon witnesses
9 Bert Steele and Dennis Trimble, who contend that Verizon's proposed UNE rates meet
10 the TELRIC standard, the values that Verizon proposes for unbundled loops and
11 switching are suspect on their face.

12 *The Weighted Average Cost of Capital*

13 **Q: WHY DO YOU CONTEND THAT DR. VANDER WEIDE'S ANALYSIS OF THE**
14 **COST OF CAPITAL IS LACKING?**

15 **A:** Dr. Vander Weide's analysis entirely ignores the Commission's recent decision in Phase
16 A of this same proceeding regarding the cost of capital. With respect to the cost of debt,
17 Dr. Vander Weide ignores the impact of short-term debt. The commission found in
18 Phase A of this proceeding that short-term debt is an important element in the
19 determination of the cost of capital. (BellSouth Cost Order, p. 155). Furthermore, in an
20 effort to estimate the forward-looking cost of equity, Dr. Vander Weide performs a
21 discounted cash flow analysis using a large number of firms drawn from a variety of
22 industries that are, in most cases, wholly unrelated to telecommunications. In the Phase
23 A Order, the Commission decisively rejected this approach and concluded that the
24 appropriate group of comparable firms that should be used in such an analysis includes

1 only the Regional Bell Operating Companies and GTE . (“We agree with witness
2 Hirshleifer’s conclusion that the RBHSc and GTE are an appropriate group to
3 consider when deciding the cost of capital for UNEs;” “we find problems with
4 witness Billingsley’s comparable group of companies as a proxy for BellSouth’s
5 UNE business.” BellSouth Cost Order, p. 153, 4). By ignoring short-term debt
6 and employing an analysis rejected by this Commission only a few months ago,
7 Dr. Vander Weide’s analysis is not particularly helpful in determining the cost of
8 capital in this phase of the proceeding.

9 **Q: DESCRIBE FURTHER THE RECENT COMMISSION ANALYSIS TO WHICH**
10 **YOU REFER.**

11 A: In Order No. PSC-01-1181-FOF (990649A-TP, “BellSouth Cost Order”), released in
12 May 2001, this Commission established a forward-looking cost of capital of 10.24%.
13 This cost of capital consisted of a cost of equity of 12.2%, a cost of debt of 7.3%, and a
14 capital structure of 60% equity and 40% debt [$0.6 \cdot 12.2 + 0.4 \cdot 7.3 = 10.24\%$]. The cost of
15 equity was determined using the Capital Asset Pricing Model (“CAPM”), whereas the
16 cost of debt was computed as a weighted average of short and long-term debt. The cost of
17 long-term debt was computed by adding a premium to the then current Treasury bond
18 rate. The cost of equity was computed using a risk-free rate of 6.67%, a market risk-
19 premium of 8.35%, and a Beta of 0.66 [$6.67 + 0.66(8.35) = 12.2$].

20 **Q: WERE THE INPUTS USED TO COMPUTE THE COST OF CAPITAL SPECIFIC**
21 **TO BELLSOUTH?**

22 A: Only one of the many inputs could be described as BellSouth-specific, but that input has
23 similar values across all the Regional Bell Companies (“RBOCs”) – the Commission

1 ordered comparable firms. Thus, all of the inputs can be described as applying generally
2 to a provider of unbundled network elements. Because none of the inputs are BellSouth
3 specific, there is no reason to believe that the methodology adopted by this Commission
4 to determine the cost of capital in this case should be any different than that set forth in
5 the BellSouth Cost Order. All that needs to be done here is to update the inputs and re-
6 compute the cost of capital. If the updated estimate of the cost of capital is similar to the
7 10.24% cost of capital established earlier, then it may be sensible just to apply that same
8 cost of capital in this phase of the proceeding. Consistency has its value. If significant
9 differences in the estimates of cost of capital are observed, either above or below the
10 previously established rate, then the cost of capital should be altered to reflect changes in
11 market conditions that have altered the forward-looking cost of capital.

12 **Q: WAS THE BELLSOUTH COST ORDER CLEAR IN ITS COMPUTATION OF**
13 **THE WACC?**

14 **A:** Yes. In the BellSouth Cost Order, the Commission clearly set forth the formula it used to
15 compute the cost of capital. The calculations in my testimony mirror the Commission's
16 formula. In many cases, the inputs used in the Commission's formula were easily
17 replicated.

18 **Q: GENERALLY, WHAT PROCEDURE DOES YOUR ANALYSIS FOLLOW?**

19 **A:** My approach is straightforward. I attempt simply to replicate the cost of capital
20 calculations from the BellSouth Cost Order using the primary data sources. After
21 replicating the calculations, I then update the inputs with current data. This approach to
22 computing the cost of capital has the benefits both of consistency within this proceeding
23 and a reliance on the Commission's own methods. For the purpose of consistency and
24 conceptual validity, in a very few cases I altered the procedures used to estimate the

1 inputs. Importantly, these different procedures have no effect on the final rate established
 2 in the BellSouth Cost Order. But, these alternative procedures are more easily updated
 3 and, I believe, more consistent and theoretically appropriate.

4 *The Cost of Debt*

5 **Q: HOW DID THE COMMISSION COMPUTE THE FORWARD-LOOKING COST**
 6 **OF DEBT IN THE BELLSOUTH COST ORDER?**

7 A: The Commission computed the cost of debt using the following formula:

$$8 \quad C_D = W_S \cdot R_S + (1 - W_S) \cdot [R_F + 0.5 \cdot (P_S + P_L)] \quad (1)$$

9 where C_D is the cost of debt, W_S is short-term debt as a percentage of total debt, R_S is the
 10 short-term cost of debt, R_F is the risk-free rate, P_S is the short-term premium and P_L the
 11 long-term premium of the Aaa Public Utility Bonds over the 30-Year Treasury Bond. The
 12 term $[0.5 \cdot (P_S + P_L)]$ is the simple average of the short and long-term premiums of Public
 13 Utility over Treasury yields. Notably, this formula was a creation of the Commission
 14 itself, and not taken directly from the testimony of the parties.

15 **Q: PLEASE DESCRIBE THE INPUTS USED TO COMPUTE THE COST OF DEBT.**

16 A: In the "A" proceeding, the short-term cost of debt (R_S) was set equal to the March-May
 17 2000 average yield on AA-rated Non-Financial Commercial Paper (6.22%).¹ Short-term
 18 debt was weighted 17% of total debt. The risk-free rate (R_F) was the March-to-May 2000
 19 average of the 30-year Treasury Bond yield (6.02%). The short-term premium of
 20 Corporate over Treasury bonds was computed as the average premium over the
 21 March-to-May 2000 period (1.97%), whereas the long-term premium was computed as

1 the average spread from March 1995 to February 2000 (1.01%). The final cost of debt,
2 therefore, was computed as

$$3 \quad C_D = 0.17 \cdot 6.22 + 0.83 \cdot [6.02 + 0.5 \cdot (1.97 + 1.01)] = 7.3\%,$$

4 which was the final value selected in the BellSouth Cost Order.

5 **Q: WERE YOU ABLE TO REPLICATE THE CALCULATIONS FROM THE**
6 **ORIGINAL DATA SOURCES?**

7 A: Yes. With one exception, I was able to replicate both the inputs and calculations
8 described in the BellSouth Cost Order. One input, the weight for short-term debt, cannot
9 be replicated exactly because it was based on a prospective, unsupported response to
10 discovery by BellSouth.

11 **Q: HAVE YOU UPDATED THE INPUTS FOR THE COMPUTATION OF THE**
12 **COST OF DEBT?**

13 A: Yes, I have made the exact same computations using the most current data available. The
14 data has been updated with a series ending in December 2001. For example, instead of
15 using the three-month period March-to-May 2000 as in the BellSouth Cost Order, I use
16 the three-month period October-to-December 2001.

17 **Q: WHAT IS THE UPDATED SHORT-TERM DEBT RATE?**

18 A: For the BellSouth Cost Order, the short-term debt rate (R_S) was measured as the average
19 yield on AA-rated 3-Month Commercial Paper (Non-Financial) during the months
20 March-to-May 2000. During that time, the yield was 6.22%. The average yield on AA-

1 rated 3-month Commercial Paper for the three-month period October-to-December 2001
2 is 2.01%. Exhibit ___ (GSF-1).

3 **Q: WHAT IS THE UPDATED RISK-FREE RATE?**

4 A: For the BellSouth Cost Order, the risk-free rate R_F was measured as the average yield on
5 the 30-Year Treasury bonds during March-to-May 2000. During that time, the yield was
6 6.02%. The average yield on the 30-year treasury for the three-month period
7 October-to-December 2001 is 5.31%. Exhibit ___ (GSF-2).

8 **Q: WHAT ARE THE UPDATED YIELD PREMIUMS?**

9 A: For the BellSouth Cost Order, the short-term premium was measured as the average yield
10 spread between Aaa Public Utility bonds and 30-Year Treasury bonds during March-to-
11 May 2000. The long-term premium was measured over the sixty-month period beginning
12 in March 1995 and ending in February 2000. The respective yield premiums were 1.97
13 and 1.01 during these periods. The updated premiums are 2.17% (P_S) over the
14 three-month period October-to-December 2001, and 1.45% (P_L) over the sixty-month
15 period January 1997 through December 2001. Exhibit ___ (GSF-2). The simple average
16 of the two is 1.81%.

17 **Q: WHAT IS THE UPDATED INPUT FOR SHORT-TERM DEBT AS A**
18 **PERCENTAGE OF TOTAL DEBT?**

19 A: This input was the most difficult to replicate, because it was based on a prospective,
20 unsupported response to a discovery request and, consequently, does not have a verifiable
21 data source.

1 **Q: WERE YOU ABLE TO EVALUATE, INDIRECTLY, THE ASSUMED PERCENT**
2 **OF SHORT-TERM DEBT?**

3 A: Yes. Historical data for the RBOCs indicates that Commercial Paper – the relevant yield
4 for short-term debt in Equation (1) -- represents about 20% of total debt and has done so
5 since 1998. No significant trend towards more or less Commercial Paper has been
6 observed in recent years. Though I cannot replicate the 17% assumption adopted in the
7 earlier phase, the lack of a significant trend in the data led me to retain the 17%
8 assumption for short-term debt adopted in BellSouth Cost Order. History, however,
9 indicates that the percent of short-term debt held as Commercial Paper is closer to 20%
10 than 17%. Exhibit ___ (GSF-3).

11 **Q: USING THESE INPUTS AND THE COMMISSION'S FORMULA, WHAT IS**
12 **THE UPDATED, FORWARD-LOOKING COST OF DEBT?**

13 A: The updated, forward-looking cost of debt is

$$14 \quad C_D = 0.17 \cdot 2.01 + 0.83 \cdot [5.31 + 0.5 \cdot (2.17 + 1.45)] = 6.25\%.$$

15 If the weight for short-term debt is set at the historical level of 20%, the cost of debt is
16 6.10%. Exhibit _____ (GSF-4). Note that the long-term cost of debt is 7.12% [= 5.31 +
17 0.5 · (2.17 + 1.45)].

18 **Q: WHY IS THIS VALUE LOWER THAN THE COST OF DEBT ESTABLISHED IN**
19 **THE BELLSOUTH COST ORDER?**

20 A: The reduction in the forward-looking cost of debt is driven primarily by declines in the
21 cost of short-term debt and the risk-free rate. The marginal effects of the changes to
22 inputs are as follows: 1) the reduction in the short-term debt rate reduced the cost of debt
23 by 72 basis points [= 0.17 · (2.01 - 6.22)]; 2) the decline in the risk-free rate reduced the

1 cost of debt by 59 basis points [= $0.83 \cdot (5.31 - 6.02)$]; and 3) the increase in the yield
2 spreads increased the cost of debt by 27 basis points [= $0.83 \cdot (1.81 - 1.49)$]. The
3 combination of the three marginal effects is a 104 basis point reduction in the
4 forward-looking cost of debt [= $-72 - 59 + 27$]. Exhibit ____ (GSF-4).

5 **Q: WHAT COST OF DEBT DO YOU RECOMMEND FOR THIS PHASE OF THE**
6 **PROCEEDING?**

7 A: Adopting the computations prescribed by the Commission in the earlier phase of this
8 proceeding and updating the inputs, I estimate a forward-looking cost of debt of either
9 6.10% or 6.25%, depending on the assumption made about the weight of short-term debt.
10 Exhibit ____ (GSF-4).

11 **Q: WHAT COST OF DEBT WAS RECOMMENDED BY DR. VANDER WEIDE?**

12 A: Dr. Vander Weide recommends a copy of debt of 7.55%. This figure is the average yield
13 on Moody's A-rated industrial bonds for March 2001. (Vander Weide, p. 49.) The
14 primary difference between Dr. Vander Weide's cost of debt and the Commission's
15 approach is that Dr. Vander Weide has ignored short-term debt. The updated long-term
16 cost of debt of 7.12% is similar to Dr. Vander Weide's recommendation. Thus, the bulk
17 of the difference in the estimated cost of debt rests between the Commission's approach
18 and Dr. Vander Weide is that Vander Weide disregarded the Commission's Order in
19 Phase A calling for the inclusion of short-term debt.

20 *Cost of Equity*

21 **Q: HOW WAS THE COST OF EQUITY DETERMINED IN THE BILLSOUTH**
22 **COST ORDER?**

1 A: The Commission employed the Capital Asset Pricing Model (“CAPM”) to determine the
2 cost of equity. The CAPM is summarized by the following equation

$$3 \qquad C_E = R_F + \beta \cdot (R_M - R_F) \qquad (2)$$

$$4 \qquad \qquad \qquad = R_F + \beta \cdot P_M \qquad (3)$$

5 where C_E is the cost of equity, R_F is the risk-free rate, R_M is the return on a broad
6 portfolio of stocks, P_M is the market risk premium, and β is the firm’s “Beta.” In its
7 BellSouth Cost Order, the Commission selected a risk-free rate of 6.67, a risk premium of
8 8.35%, and a Beta of 0.66. These input values render a cost of equity of 12.2%.

9 **Q: DOES THE CAPM PRODUCE FORWARD LOOKING ESTIMATES OF THE**
10 **COST OF CAPITAL?**

11 A: Yes. Because the method is based on stock market prices, which presumably incorporate
12 investors’ expectations of the firm’s future earnings, the CAPM is forward-looking.

13 **Q: WHAT WAS THE SOURCE FOR THE INPUTS USED TO COMPUTE THE**
14 **COST OF EQUITY?**

15 A: The risk-free rate was based on the implied yield for Treasury bond futures in May 2000.
16 The risk-premium was computed as the yield spread on the S & P 500 Composite Index
17 and Aaa Corporate Utility bonds over the period October 1987 to May 2000. The Beta
18 was the levered average Beta for the RBOCs and GTE.

19 **Q: DO YOU BELIEVE THE COMMISSION’S COMPUTATION OF THE COST OF**
20 **EQUITY WAS REASONABLE?**

21 A: Yes, I believe the use of the CAPM was a sensible and appropriate decision and that the
22 Commission should continue to apply it here. But, while the Commission applied a good

1 theoretical concept, there were a couple of irregularities in the inputs. Notably, all of
2 these irregularities were based on calculations performed by witnesses and not the
3 Commission itself.

4 **Q: WHAT IRREGULARITIES DID YOU FIND IN THE COMPUTATION OF THE**
5 **COST OF EQUITY?**

6 A: First, there is a fundamental inconsistency in the computation of the risk-free rate and the
7 market risk premium.

8 **Q: PLEASE DESCRIBE THIS INCONSISTENCY.**

9 A: The Commission adopted a market-risk premium from the testimony of BellSouth
10 witness Randall Billingsley. Dr. Billingsley computed the risk premium as the yield
11 spread between the S&P 500 Composite and Aaa Public Utility Debt. The value of this
12 premium was 15.02% as of May 2000. Dr. Billingsley computed a risk-free rate of
13 6.67%, which was the implied yield on Treasury Bond futures in May 2000. The
14 difference between the two yields is 8.35%, and this value was the market risk premium
15 used in the BellSouth Cost Order.

16 **Q: WHAT IS WRONG WITH THIS CALCULATION?**

17 A: As portrayed in Equation (2), the market risk premium is computed as the difference
18 between the return on stocks and the risk-free rate ($P_M = R_M - R_F$). Yet, this is not the
19 calculation that was used to determine the market risk premium. The respective yields on
20 Treasury Bonds (or Treasury Bond futures) and Aaa Public Utility debt are clearly not the
21 same. In fact, the Commission used the yield spread of 1.01% between the risk-free
22 Treasury bonds and Aaa Public Utility debt to establish the forward-looking cost of debt.
23 Thus, the market risk premium of 8.35% adopted in the BellSouth Cost Order was

1 understated by about 101 basis points. The corrected market-risk premium would be
2 about 9.36%.

3 **Q: ARE THERE OTHER PROBLEMS WITH THE COMPUTATION OF THE COST**
4 **OF EQUITY?**

5 A: Yes. The risk-free rate used for the cost of equity was different than the risk-free rate
6 used for the cost of debt. The risk-free rate is the risk-free rate, and it should not differ
7 among the calculations required to compute the cost of capital.

8 **Q: HOW CAN THIS INCONSISTENCY BE REMEDIED?**

9 A: Fortunately, adjusting the analysis is rather straightforward, requiring only that the risk-
10 free rate be applied consistently across calculations. My testimony follows this consistent
11 approach, adopting the updated risk-free rate of 5.31% and the previous risk-free rate of
12 6.02% for all computations.

13 **Q: WERE THERE OTHER IRREGULARITIES IN THE COMPUTATION OF THE**
14 **COST OF EQUITY?**

15 A: Yes. In the BellSouth Cost Order, the Commission used a Beta of 0.66, which was a
16 levered Beta for the Regional Bell Companies and GTE as constructed by
17 AT&T/WorldCom witness John Hirshliefer. The irregularity in this instance is that the
18 Commission staff did not endorse Hirshliefer's leveraging of Betas. BellSouth Cost
19 Order, p. 154. The Commission did observe that the levered 0.66 Beta was reasonably
20 close to BellSouth's unlevered BARRA Beta of 0.65 (in December 1999), and the two
21 Betas were sufficiently close for the Commission to conclude that the levered Beta was
22 not unreasonable.

1 **Q: IS IT POSSIBLE TO ELIMINATE THE USE OF LEVERED BETAS WITHOUT**
2 **ALTERING THE WACC THE IN BELLSOUTH COST ORDER?**

3 A: Yes. Over the twelve-month period June 1999 to July 2000, or January 2000 through
4 December 2000, the average unlevered Beta for the RBOCs was 0.66. This number
5 coincides with the Beta used in the BellSouth Cost Order. Exhibit ____ (GSF-5).

6 **Q: IF THESE IRREGULARITIES ARE REMEDIED, WHAT EFFECT WOULD**
7 **THE CHANGES TO A MORE CONSISTENT APPROACH HAVE ON THE**
8 **COST OF EQUITY IN THE BELLSOUTH COST ORDER?**

9 A: Repairing the problems with the computation of the market risk premium, the risk-free
10 rate, and Beta has no impact on the cost of equity determined in the BellSouth Cost
11 Order. The increased market risk premium combined with the consistent treatment of the
12 risk-free rate across debt and equity calculations produces a cost of equity equal at the
13 time to

14
$$C_E = 6.02 + 0.66 \cdot (9.36) = 12.2\%.$$

15 Thus, there would be no difference in the cost of equity established in the BellSouth Cost
16 Order if these irregularities were eliminated. Thus, it seems sensible to move to a more
17 consistent approach. To facilitate this consistent approach, I supply the Commission with
18 all the necessary inputs to make the correct calculations.

19 **Q: HAVE YOU UPDATED THE INPUTS REQUIRED TO COMPUTE THE COST**
20 **OF EQUITY?**

21 A: Yes. As discussed previously, the risk-free rate has declined from 6.02% to 5.31%. I use
22 this updated risk-free rate to compute the cost of equity. Exhibit ____ (GSF-2). The

1 procedure I employ to estimate the market-risk premium is simple and transparent. The
2 data is publicly available and available on the Internet. Selecting a method to estimate the
3 market risk premium that is simple, produces results consistent with other more
4 complicated methods, and is easily reproduced has obvious benefits.

5 **Q: HAS THE MARKET PREMIUM CHANGED?**

6 A: Yes. According to my calculations, the market risk premium has declined from 9.39% to
7 8.34%. Exhibit ___ (GSF-6).

8 **Q: HOW DID YOU COMPUTE THE MARKET RISK PREMIUM?**

9 A: I have recomputed the market risk premium for the 20-year period 1981 through 2000,
10 and 1982 through 2001. The former time period coincides with that used in the BellSouth
11 Cost Order of this proceeding and the resulting market risk premium of 9.39% is nearly
12 identical to the "corrected" risk premium of 9.36% used in the earlier phase. Using
13 arithmetic mean returns, the market risk premium in the later period 8.34%. Thus, the
14 market risk premium has declined, and this lower value is used in my calculation of the
15 cost of equity.

16 **Q: IS HISTORICAL DATA APPROPRIATE FOR MEASURING THE FORWARD-
17 LOOKING MARKET RISK PREMIUM?**

18 A: Yes. The risk premium follows no systematic or predictable pattern. Thus, the best
19 estimate of its future value is the arithmetic average of its historical values.

20 **Q: DO YOU BELIEVE YOUR ESTIMATES OF THE MARKET RISK PREMIUM
21 ARE REASONABLE?**

1 A: My goal is not to argue over the levels previously chosen by this Commission. Rather,
2 my efforts are devoted to the replication of the Commission's methodology and the
3 elimination of any irregularities or inconsistencies in that methodology under the
4 constraint that the remedies to these problems do not, in the end, alter the Commission's
5 earlier decision about the cost of capital. That said, the method used to compute the
6 market risk premium is legitimate. There are many methods to estimate the market risk
7 premium, and just as many estimates of the market risk premium as methods. Professor
8 Aswath Damodaran at the Stern Business School, for example, provides a number of
9 estimates of the market risk premium on his website.² Generally, the market risk
10 premiums he estimates are considerably smaller than the values I have recommended
11 here. Dr. Vander Weide proposed a market risk premium of 7.8% in his testimony before
12 this Commission in Docket No. 000824-EI. Testimony of James H. Vander Weide,
13 Docket No. 000824-EI, September 14, 2001, p. 38. I believe my estimate of the market
14 risk premium is conservative.

15 **Q: HAVE YOU UPDATED THE BETA?**

16 A: Yes. Over the twelve-month period January 2001 to December 2001, the average RBOC
17 Beta was 0.58. Exhibit ___ (GSF-5).

18 **Q: WHAT WOULD THE RISK-FREE RATE AND MARKET RISK PREMIUM BE**
19 **IF YOU ADHERED MORE CLOSELY TO THE APPROACH TAKEN IN THE**
20 **BELLSOUTH COST ORDER?**

21 A: Mirroring the calculations used in Phase A, the implied yield on Treasury futures in
22 December 2001 is 6.02%. Exhibit ___ (GSF-7) . As just discussed, I calculate a market

² http://www.stern.nyu.edu/~adamodar/New_Home_Page/data.html.

1 risk premium on Treasury Bonds of 8.36%. Subtracting the long-term spread between
2 Aaa Public Utility bonds and Treasuries of 1.45%, the implied market risk premium is
3 6.89%.

4 **Q: WHAT IS THE UPDATED, FORWARD-LOOKING COST OF EQUITY?**

5 A: In my opinion, the best estimate based on the Commission's methodology is about 10%.
6 Exhibit ____ (GSF-8) summarizes the estimated cost of equity under a variety of input
7 combinations, and all estimates are about 10%.

8 **Q: WHAT ASSUMPTION DID YOU MAKE ABOUT CAPITAL STRUCTURE?**

9 A: As in the BellSouth Cost Order, I use a capital structure of 40% debt and 60% equity.
10 The Commission cited a number of sources for this assumed capital structure, including
11 BellSouth's own assertions about its target capital structure. Staff's 5th Set of
12 Interrogatories, TP-990649A-TP, June 13, 2000, Item No. 49, Page 1 of 1. Because
13 RBOC capital structure is not something that undergoes dramatic changes over short
14 periods of time, I see no obvious reasons for adjusting the capital structure assumed in the
15 BellSouth Cost Order. Indeed, the ratio of RBOC (book) debt to market capitalization has
16 remained relatively stable over the past few years. Current financial statistics indicate that
17 the book capital structure of the RBOCs is about 55% debt and 45% equity, so a 40-60
18 assumption is well below book values. Exhibit ____ (GSF-9).

19 **Q: BASED ON THE UPDATED INPUTS, WHAT IS THE FORWARD-LOOKING**
20 **COST OF CAPITAL?**

21 A: Following the approach of the BellSouth Cost Order, the forward-looking cost of capital
22 is computed using the following formula:

1
$$= 0.40 \cdot C_D + 0.60 \cdot C_E.$$

2 My estimates of the forward-looking cost of debt are 6.10% and 6.25%. Estimates of the
3 forward-looking cost of equity are about 10.0% to 10.1%. Considering these estimates,
4 the updated, forward-looking cost of capital lies between 8.43% and 8.56%, with a mid-
5 point of about 8.50%. Estimates of the cost of capital using different combinations of the
6 updated inputs are provided are provided in Exhibit ___ (GSF-10).

7 **Q: WHAT COST OF CAPITAL DO YOU RECOMMEND FOR THIS PHASE OF**
8 **THIS PROCEEDING?**

9 A: Using the Commission's prescribed calculations in the BellSouth Cost Order with
10 updated inputs, the forward-looking cost of capital is about 8.5%.

11 **Q: WHY, USING THE SAME METHODOLOGY AS IN THE BELLSOUTH COST**
12 **ORDER, IS THE UPDATED COST OF CAPITAL SUBSTANTIALLY LESS**
13 **THAN THE COST OF CAPITAL ESTABLISHED IN THAT EARLIER ORDERED?**

14 A: The current economy is markedly different than the economy in late 1999 and early 2000.
15 The cost of debt has fallen substantially, with the risk-free rate down 71 basis points and
16 commercial paper down about 400 basis points. Further, the market risk premium and
17 perceived risk faced by the RBOCs – as measured by Beta – have both declined.

18 **Q: PLEASE SUMMARIZE YOUR TESTIMONY ON THE COST OF CAPITAL.**

19 A. I have followed the Commission's own formula, detailed in the BellSouth Cost Order, for
20 computing the forward-looking cost of capital. The inputs used for the computations are,
21 in most cases, determined in an identical manner to the BellSouth Cost Order. In some
22 cases differences exist, but in these cases I believe my estimates are an improvement over

1 those used in the BellSouth Cost Order. Using consistent methods and data sets,
2 reasonable estimates of the updated, forward-looking cost of capital is 8.5%.

3 *Comparative Cost Analysis*

4 **Q: THIS COMMISSION IS CURRENTLY COMPLETING PHASE A OF THIS**
5 **PROCEEDING. IN PHASE A, THE UNE RATES FOR BELL SOUTH-FLORIDA**
6 **ARE BEING DETERMINED. DO THE RATE PRESCRIPTIONS IN THAT**
7 **PHASE OF THE PROCEEDING SHED ANY LIGHT ON THE UNE RATES FOR**
8 **VERIZON-FLORIDA?**

9 A: I believe so. For example, if the costs of serving the Verizon regions of the state are
10 identical to the costs of serving the BellSouth regions, then the UNE rates should be
11 roughly identical between the two carriers. If the costs are higher in one region than the
12 other, the UNE rates should reflect those cost differences. If the Commission adopts the
13 same TELRIC principles in this phase as in the former phase of this proceeding, then my
14 analysis indicates that the UNE rates established for Verizon in this proceeding should be
15 slightly less than the UNE rates set for BellSouth. (In making this statement, I do not
16 imply that I believe BellSouth's current UNE rates are at an appropriate level. In the "A"
17 Phase, I have asserted that an application of the same comparison among states indicates
18 BellSouth's Florida UNE-P loop rate is overstated.)

19 **Q: HOW DID YOU REACH THIS OBSERVATION?**

20 A: I used the FCC's Hybrid Proxy Cost Model ("HCPM") to compare the costs of providing
21 elements between BellSouth-Florida and Verizon-Florida. Evaluating the relative cost of
22 providing UNEs across the BellSouth and Verizon territories in Florida with an
23 independent cost model clearly shows that UNE rates in the BellSouth and Verizon
24 regions should be more alike than different. In fact, the costs of UNEs in the Verizon

1 region are typically less than the costs in the BellSouth region. While this comparative
2 analysis does not produce specific rates – that is the role of the cost models – it does
3 provide some indication of the TELRIC “zone of reasonableness” and operates as a
4 sanity check on the rates proposed by Verizon.

5 **Q: HOW IS THE HCPM USED TO MAKE SUCH COMPARISONS?**

6 **A:** The general idea is that the ratio of rates between two carriers within a state, or between
7 carriers across states, should roughly approximate the corresponding ratio of costs. If the
8 costs are identical, the rates should be roughly identical. It is that simple.

9 **Q: HAS THE HCPM BEEN USED TO PERFORM SUCH ANALYSES IN OTHER**
10 **CONTEXTS?**

11 **A:** Yes. The FCC has used the approach in numerous 271 Orders, beginning with the
12 Oklahoma-Kansas 271 Order. OK-KS Order, ¶84-5. In that Order, the FCC said:

13 Our USF cost model provides a reasonable basis for comparing cost differences
14 between states. We have previously noted that while the USF cost model should
15 not be relied upon to set rates for UNEs, it accurately reflects the relative cost
16 differences among states (emphasis added).³

17 Thus, while the HCPM should not be used to determine the absolute level of the UNE
18 rate, the model is a reliable source of how costs differ across states and, similarly, across
19 carriers within a state. The FCC has since applied this principle in subsequent 271 Orders
20 including Massachusetts, Pennsylvania, and Arkansas and Missouri.

21 The concept of using the HCPM in the way I have described is a rather general
22 concept, and its use in the 271 proceedings is only one of many applications of this idea.
23 This Commission will have to determine the usefulness of this comparative approach in

1 the instant proceeding. At a minimum, I believe a comparative analysis using the HCPM
 2 provides general guidance on the reasonableness of proposed TELRIC rates – at least
 3 relative to the rates established for other carriers or in other states.

4 **Q: FOR WHICH ELEMENTS DO YOU COMPARE COSTS BETWEEN**
 5 **BELLSOUTH-FLORIDA AND VERIZON-FLORIDA?**

6 A: The 2-wire analog loop and unbundled switching, including transport. The details of the
 7 relevant computations are provided in Exhibit ___ (GSF-11).

8 **Q: WHAT DOES THE HCPM SAY ABOUT THE RELATIVE COST OF LOOPS**
 9 **BETWEEN BELLSOUTH-FLORIDA AND VERIZON-FLORIDA?**

10 A: The HCPM estimates that the cost of a loop for Verizon-Florida is roughly equal to that
 11 for Bellsouth-Florida. The average HCPM loop cost for Verizon-Florida is \$17.02,
 12 whereas the average HCPM loop cost for BellSouth-Florida is \$17.21 – about a 1%
 13 difference. Thus, we should expect that the TELRIC rates for loops established in the
 14 proceeding should be roughly identical between the two carriers.

15 **Q: WHAT DOES THE HCPM SAY ABOUT THE RELATIVE COST OF**
 16 **SWITCHING BETWEEN BELLSOUTH-FLORIDA AND VERIZON-FLORIDA?**

17 A: As with loops, the costs are roughly identical. The average, per-line monthly switching
 18 cost for Verizon is \$2.13, whereas the average, per-line monthly switching cost for
 19 BellSouth-Florida is \$2.33 – about a 9% difference. Again, we should expect that the
 20 TELRIC rates established for Verizon-Florida in the proceeding for switching (on a
 21 monthly, per-line basis) should be slightly less than BellSouth's UNE switching rates.

³ FCC KS-OK 271 Order, ¶ 84.

1 **Q: WILL THE SWITCH PORT AND USAGE RATES BE IDENTICAL BETWEEN**
2 **BELLSOUTH AND VERIZON?**

3 A: Not necessarily. The rates for the individual elements that make up switching may not be
4 equal, but when taking into account usage characteristics of the customers, the average,
5 per-line monthly element costs for switching – including the port and end-office usage –
6 should be approximately the same for the two carriers. So, when evaluating proposed
7 rates, one must account for usage. The relevant usage data is provided in Exhibit
8 __ (GSF-10).

9 **Q: IN YOUR OPINION, DO THE UNE RATES PROPOSED BY VERIZON**
10 **REFLECT THE RELATIONSHIPS THAT YOU WOULD EXPECT TO SEE?**

11 A: While BellSouth's UNE rates have not been finalized, I think it is worth noting that
12 Verizon has proposed rates that are substantially higher than the rates set forth in the
13 BellSouth Cost Order. For example, the BellSouth Order sets rates for two-wire analog
14 loops for UNE-Combinations at \$14.83, \$18.24, and \$23.98. Verizon has proposed loops
15 rates of \$22.17, \$30.91, and \$77.39. Obviously, these rates are not even remotely similar.
16 The BellSouth Order also set a fixed rate for switch port features of \$3.40. Yet, Verizon
17 proposed to charge \$4.20 for nothing more than "three-way calling" (\$1.46) and remote
18 call forwarding (\$2.74). Computing monthly, per-line switching costs using the minutes
19 in Exhibit __ (GSF-11), the rates in the BellSouth Cost Order produce a monthly cost of
20 3.23 whereas Verizon has proposed to charge 7.27. Verizon's proposed rates, therefore,
21 do not satisfy a comparative cost analysis.

22 **Q: DOES THIS CONCLUDE YOUR TESTIMONY?**

23 A: Yes.

1 Q: PLEASE STATE YOUR NAME AND ADDRESS.

2 A: My name is George S. Ford. My business address is 601 South Harbour Island
3 Boulevard, Suite 220, Tampa, Florida 33602.

4 Q: HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS PROCEEDING?

5 A: Yes. I filed revised testimony on January 30, 2002.

6 Q: WHAT IS THE PURPOSE OF YOUR TESTIMONY?

7 A: The purpose of my testimony is to respond to the cost of capital testimony filed by
8 Commission Staff Witness David Draper.

9 Q: PLEASE SUMMARIZE THE RECOMMENDATIONS OF MR. DRAPER AS
10 CONTAINED IN HIS REBUTTAL TESTIMONY.

11 A: Mr. Draper recommends a cost of capital of 9.67% for Verizon and 9.90% for Sprint.
12 These estimates are based on a cost of equity of 11.30% and a cost of debt of 7.22% for
13 Verizon. For Sprint, the cost of equity was estimated to be 11.55% and the cost of debt
14 7.43%. Mr. Draper assumes a capital structure of 40% debt and 60% equity.

15 Q: DO YOU AGREE WITH MR. DRAPER'S ANALYSES AND RECOMMENDATIONS
16 REGARDING THE COST OF CAPITAL?

17 A: No. First, in my testimony I advocated that the Commission apply in this phase of the
18 UNE investigation the same short-term/long-term yield spread and CAPM approach
19 that it applied to BellSouth a few months ago. By relying only on long-term yield
20 spreads to determine the cost of debt and, in part, on a DCF model to determine the cost

1 of equity, Mr. Draper departs from that approach. Even if the Commission entertains his
2 methodology, Mr. Draper's analysis is flawed in a number of ways. I address three
3 primary flaws in my testimony. First, Mr. Draper's estimates of the cost of equity are
4 based on an application of the two-stage discounted cash flow ("DCF") model financial
5 model that conflicts with the theory underlying the methodology. Second, Mr. Draper
6 employs an inappropriate set of comparable firms to estimate the cost of equity. Third, I
7 believe Mr. Draper has substantially overstated the cost of short-term debt, thus
8 inflating the cost of debt. In nearly every case, Mr. Draper's flaws not only violate
9 financial theory and practice, but also directly contradict the Commission's decision in
10 the BellSouth Cost Order.

11 **Q: DO YOU PROPOSE REMEDIES TO THE FLAWS MADE BY MR. DRAPER?**

12 **A:** Yes. In my testimony, I will describe my concerns with Mr. Draper's analysis in detail
13 and will propose alternative assumptions and methodologies. My suggested
14 adjustments to Mr. Draper's analyses are consistent with Commission precedent and
15 standard financial theory and practice, and tied to Mr. Draper's general proposals.

16 **Q: ARE THERE ANY FUNDAMENTAL DIFFERENCES BETWEEN MR. DRAPER'S**
17 **INTERPRETATION OF THE FORWARD-LOOKING COST OF CAPITAL AND**
18 **YOUR OWN?**

19 **A:** Yes. In my Rebuttal Testimony, I did not differentiate between the forward-looking cost
20 of capital for UNEs that should apply to Verizon and Sprint. Conceptually, I believe the
21 forward-looking cost of capital for UNEs should not vary by firm. This view is generally
22 supported by this Commission's Order in the BellSouth Phase, where the Commission

1 was “deciding the cost of capital for UNEs,” and not for BellSouth. BellSouth Cost
2 Order, p. 153. Nevertheless, in the final analysis, the differences proposed by Witness
3 Draper are sufficiently small that dwelling on the issue is perhaps unwarranted. To
4 avoid having my testimony evaluated primarily on this particular dispute, and to focus
5 on the need to adjust Mr. Draper’s analyses, my response to Mr. Draper’s testimony will
6 adhere to his view that the cost of capital should differ between Verizon and Sprint. If
7 the Commission wishes to homogenize the cost of capital across firms, then the detail
8 provided in my testimony and exhibits provides that flexibility.

9 **Q: HOW HAVE YOU ORGANIZED YOUR TESTIMONY?**

10 A: First, I will point out several shortcomings in Mr. Draper’s methods and assumptions.
11 As I do so, I provide simple remedies to these shortcomings. Sequentially, my testimony
12 first addresses Mr. Draper’s estimates of the cost of debt and then the cost of equity. To
13 close, I provide an updated estimate of the forward-looking weighted average cost of
14 capital that corresponds to Mr. Draper’s approach, once my correcting adjustments have
15 been incorporated.

16 *The Cost of Debt*

17 **Q: HOW DOES MR. DRAPER ESTIMATE THE LONG-TERM COST OF DEBT FOR**
18 **VERIZON AND SPRINT?**

19 A: According to Mr. Draper, Verizon and Sprint have public utility debt ratings of “A” and
20 “BBB.” Mr. Draper employs the 10-year treasury as his measure of the risk-free rate
21 when computing the cost of debt. Mr. Draper then computes an average yield spread

1 between the relevant utility bond and the risk-free security. This yield is then added to
2 the expected risk-free rate to produce an estimate of the long-term cost of debt.

3 **Q: DOES THIS APPROACH DIFFER FROM THE APPROACH TAKEN IN YOUR**
4 **REBUTTAL TESTIMONY?**

5 A: Yes. In my Rebuttal Testimony, I used the yields on AAA Public Utility bonds and the
6 30-Year Treasury bond to estimate the long-term cost of debt. My estimates of the long-
7 term cost of debt followed exactly the yield-spread approach created by this
8 Commission and described in the BellSouth Cost Order. This approach uses the average
9 of long-term and short-term yield spreads to estimate the cost of debt. The details are
10 described in my Rebuttal Testimony and the BellSouth Cost Order. Mr. Draper does not
11 employ this approach. He ignores the short-term yield spread in his analysis, thereby
12 ignoring the Commission's finding that consideration of both the short-term and long-
13 term yield spread is "appropriate ... because it allows some weight to the longer term
14 development of the spread and allows for the recent increases in the spread." BellSouth
15 Cost Order, p. 155.

16 **Q: CAN MR. DRAPER'S ESTIMATION PROCEDURES AND YOUR OWN BE**
17 **RECONCILED?**

18 A: Yes, quite easily. I recommend that the Commission adhere to the estimation procedures
19 employed in the previous phase of this proceeding, as detailed in the BellSouth Cost
20 Order and in my Rebuttal Testimony. Since we can duplicate the calculations from the
21 earlier phase without any difficulty, it seems sensible to do so for the sake of consistency
22 and comparability. Further, this approach is preferable given that this Commission

1 made an affirmative finding for the use of the short/long-term average spread approach
2 in its BellSouth Cost Order.

3 **Q: SYNTHESIZING MR. DRAPER'S METHODS AND THOSE OF THE BELL SOUTH**
4 **COST ORDER, WHAT IS THE ESTIMATE FOR VERIZON'S LONG-TERM COST**
5 **OF DEBT?**

6 A: This synthesis estimate of the long-term cost of debt for Verizon assumes the risk-free
7 rate is measured by the 10-Year Treasury bond and the relevant yield for Verizon is A-
8 rated utility bonds, as assumed by Mr. Draper. Computing the cost of long-term debt
9 using these assumptions and exactly the same methodology found in the BellSouth Cost
10 Order, the long-term cost of debt for Verizon equals

11
$$4.77 + 0.5(2.91 + 1.99) = 7.22\%.$$

12 This cost of debt is computed by adding the average of the short-term yield spread (291
13 basis points) and the long-term yield spread (199 basis points) to the risk-free rate
14 (4.77%). Exhibit GSF-SR1 and Exhibit GSF-SR11.

15 **Q: USING THIS SAME SYNTHESIS APPROACH, WHAT DO YOU BELIEVE IS A**
16 **REASONABLE PROXY FOR SPRINT'S LONG-TERM COST OF DEBT?**

17 A: For Sprint, Mr. Draper employs the yield on BBB utility bonds as the relevant proxy.
18 Again, using the same calculations set forth in the BellSouth Cost Order, but computing
19 the cost of debt using the 10-Year Treasury and the yield on BBB utility bond (or
20 equivalently Moody's Baa-rating), I compute a long-term cost of debt for Sprint of

21
$$4.77 + 0.5(3.31 + 2.24) = 7.55\%.$$

1 This cost of debt is computed by adding the average of the short-term yield spread (331
2 basis points) and the long-term yield spread (224 basis points) to the risk-free rate
3 (4.77%). Exhibit GSF-SR1 and Exhibit GSF-SR11.

4 **Q: DO THESE CALCULATIONS FOLLOW EXACTLY THE ESTIMATION**
5 **PROCEDURE EMPLOYED IN THE BELL SOUTH COST ORDER?**

6 A: Yes. These estimates are based on an algorithm identical to that prescribed by this
7 Commission in the earlier phase of this proceeding.

8 **Q: DOES MR. DRAPER CONSIDER SHORT-TERM DEBT IN HIS ESTIMATION OF**
9 **THE COST OF DEBT?**

10 A: Yes. Consistent with the BellSouth Cost Order, Mr. Draper has included an analysis of
11 short-term debt.

12 **Q: WHAT DOES MR. DRAPER USE AS A PROXY FOR SHORT-TERM DEBT?**

13 A: Mr. Draper uses the prime rate as a proxy for the cost of short-term debt, and selects a
14 cost of short-term debt of 5.36%.

15 **Q: IN YOUR REBUTTAL TESTIMONY, DID YOU USE THE PRIME RATE AS THE**
16 **PROXY FOR THE COST OF SHORT-TERM DEBT?**

17 A: No. As in the BellSouth Cost Order, I used the cost of commercial paper (3-month, AA
18 Non-Financial) as the proxy for the cost of short-term debt.

19 **Q: DO YOU BELIEVE THE PRIME-RATE IS AN APPROPRIATE PROXY FOR THE**
20 **SHORT-TERM COST OF DEBT?**

1 A: No. Local exchange carriers, including Verizon and Sprint, do borrow short-term funds
2 from banks. However, such loans make up a very small portion of short-term debt. For
3 example, only about 3% of Verizon's short-term debt and 17% of Sprint's short-term
4 debt is "bank loans," the rest being commercial paper. Likewise, commercial paper
5 makes up over 80% of BellSouth and SBC's short-term debt. Obviously, commercial
6 paper is by far a more substantial component of short-term debt for the local exchange
7 carriers. Exhibit GSF-SR2.

8 **Q: ON AVERAGE, WHAT PERCENT OF SHORT-TERM DEBT IS COMMERCIAL**
9 **PAPER FOR THE REGIONAL BELL COMPANIES AND SPRINT?**

10 A: In year 2000, commercial paper accounted for 84% of short-term debt. Bank loans made
11 up the remaining 16% of short-term debt.

12 **Q: WHAT IS THE HISTORICAL RELATIONSHIP BETWEEN THE INTEREST RATES**
13 **ON COMMERCIAL PAPER AND THE PRIME RATE?**

14 A: Historically, the prime rate has been about 300 basis points higher than the commercial
15 paper rate. Exhibit GSF-SR1. Given that commercial paper is by far the most important
16 component of short-term debt, the prime rate *alone* is not a reliable proxy for the cost of
17 short-term debt. Indeed, the prime rate substantially overstates the average cost of short-
18 term debt.

19 **Q: ALTHOUGH THE PRIME RATE IS NOT A REASONABLE PROXY FOR THE**
20 **AVERAGE COST OF SHORT-TERM DEBT, IS THE PRIME RATE A REASONABLE**
21 **PROXY FOR THE COST OF SHORT-TERM BANK LOANS?**

1 A: Yes. In the final quarter of year 2000, the average prime rate was 9.5%. Exhibit GSF-SR1.
2 In its Year 2000 10-K, Bellsouth reports an average bank loan rate of 9.6%. Exhibit GSF-
3 SR2. The similarity between the reported rate by BellSouth and the average during the
4 same time-period indicates that the prime rate is a reasonable proxy for the cost of bank
5 loans. Neither Verizon nor SBC provide an estimate of the rate for bank loans. Note that
6 in its Year 2000 10-K, Sprint reports an average rate for bank loans of 7.1%. Exhibit GSF-
7 SR2. Thus, the prime rate overstates the bank rate paid by Sprint by more than 200 basis
8 points.

9 **Q: IS AA NON-FINANCIAL COMMERCIAL PAPER A REASONABLE PROXY FOR**
10 **COMMERCIAL PAPER RATES PAID BY THE REGIONAL BELL COMPANIES?**

11 A: Yes. The average commercial paper rate for the last quarter of Year 2000 was 6.5%.
12 Exhibit GSF-SR1. Verizon reports in its Year 2000 10-K that its short-term cost of debt --
13 of which 97% is commercial paper -- was 6.5%. The same is true for BellSouth and SBC,
14 both reporting an average commercial paper rate of 6.5% in year 2000. Exhibit GSF-SR2.
15 Thus, AA-rated non-financial commercial paper is a reasonable proxy for the cost of
16 short-term debt borrowed as commercial paper.

17 **Q: DOES SPRINT REPORT A RATE FOR COMMERCIAL PAPER IN ITS FINANCIAL**
18 **DOCUMENTS?**

19 A: Sprint reported an average commercial paper rate of 7.5% in Year 2000 – about 100 basis
20 points higher than Verizon and BellSouth. Exhibit GSF-SR2.

21 **Q: HOW WAS THE SHORT-TERM COST OF DEBT DETERMINED IN THE**
22 **BELLSOUTH COST ORDER?**

1 A: The rate for AA Non-financial commercial paper was the proxy for short-term debt costs
2 in the BellSouth Cost Order. Given that the vast majority of short-term debt is
3 commercial paper, commercial paper is a very reasonable proxy for the cost of short-
4 term debt.

5 **Q: WHAT DO YOU BELIEVE IS THE MOST REASONABLE PROXY FOR THE COST**
6 **OF SHORT-TERM DEBT?**

7 A: Consistency with the previous phase of this proceeding prescribes the Commission use
8 the yield on commercial paper. That said, bank loans are part of short-term debt, albeit a
9 much smaller part than commercial paper. Thus, including bank loans in the estimation
10 of short-term debt is perhaps reasonable. Using bank loans to proxy the cost of all short-
11 term debt, however, is counterfactual.

12 **Q: WHAT IS REQUIRED TO INCORPORATE BANK LOANS INTO THE COST OF**
13 **SHORT-TERM DEBT?**

14 A: Incorporating bank loans into the estimate of short-term debt is rather straightforward.
15 Bank-loans, on average, account for about 16% of short-term debt for the Regional Bell
16 Companies (BellSouth, Verizon, and SBC) and Sprint. Exhibit GSF-SR2. Thus, a
17 weighted average of the commercial paper and prime rates, using weights 0.84 and 0.16
18 for commercial paper and bank loans, is a reasonable approach.

19 **Q: USING THESE WEIGHTS, WHAT IS THE COST OF SHORT-TERM DEBT FOR**
20 **VERIZON?**

1 A: Year-end yields on commercial paper and bank loans were 2.01% and 5.16%. Using
2 weights of 84% commercial paper and 16% bank loans, the a weighted average cost of
3 short-term debt is 2.51% for Verizon-Florida. Exhibit GSF-SR1.

4 **Q: WHAT IS THE COST OF SHORT-TERM DEBT FOR SPRINT?**

5 A: Adjusting the commercial paper up by 100 basis points and the prime rate down by 200
6 basis points, Sprint's weighted average cost of short-term debt is 3.03%

7 **Q: HAVE SHORT-TERM YIELDS INCREASED SINCE THE END OF THE YEAR 2001?**

8 A: No. The three-month average yields on commercial paper and bank loans ending
9 February 2002 are 1.76% and 4.78%.¹ So, short-term interest rates have declined since the
10 end of the year. Thus, these estimates based on earlier data are conservative.

11 **Q: MR. DRAPER ASSUMES THAT 25% OF TOTAL DEBT IS SHORT-TERM AND 75%
12 IS LONG-TERM DEBT. DO YOU CONCUR WITH HIS RECOMMENDATION?**

13 A: In my Rebuttal Testimony, I provided evidence that, on average, the Bell Companies had
14 about 20% of total debt in the form of commercial paper. If bank loans are included,
15 short-term debt amounts to about 27% of total debt in year 2000, or about 23% over the
16 years 1998 to 2000. Thus, if we include bank loans in short-term debt, then the 25-75 split
17 between short- and long-term debt is reasonable.

¹ For December 2001, January 2002, and February 2002, the average yields for AA Non-Financial Commercial Paper (Prime Rate) were 1.78 (4.84), 1.70 (4.75), 1.79 (4.75), respectively.

Source: <http://www.stls.frb.org/fred/data/irates.html>.

1 **Q: CONSIDERING THE CHANGES TO THE CALCULATIONS JUST DISCUSSED,**
2 **WHAT ARE THE SYNTHESIS ESTIMATES OF THE COST OF DEBT FOR**
3 **PROVIDING UNES BY VERIZON AND SPRINT?**

4 For Verizon, the forward-looking cost of debt for UNEs is

5
$$0.25 \cdot 2.51 + 0.75 \cdot 7.22 = 6.04\%$$

6 and for Sprint the forward-looking cost of debt for UNEs is

7
$$0.25 \cdot 3.02 + 0.75 \cdot 7.55 = 6.42\%$$

8 According to this estimation method, Sprint's cost of debt exceeds Verizon's by about 38 basis
9 points.

10 **Q: HOW DO YOUR ESTIMATES OF THE COST OF DEBT COMPARE TO THAT**
11 **ESTABLISHED IN THE BELLSOUTH COST ORDER?**

12 A: In the Bellsouth Cost Order, the established cost of debt was 7.3%. This cost of debt was
13 based on yield data from the first half of year 2000. Since that time, the 10-Year Treasury
14 yield has fallen by about 150 basis points, commercial paper costs have fallen by over
15 400 basis points, the prime rate has fallen by nearly 390 basis points, A-rated utility bond
16 yields are down 75 basis points, and Baa-rated utility bond yields are down nearly 50
17 basis points. Exhibit GSF-SR1. In light of these dramatic reductions in debt costs, it is not
18 difficult to see why the cost of debt is less now than in period relevant for the BellSouth
19 phase.

20 **Q: ACCORDING TO YOUR TESTIMONY, THE RISK-FREE RATE HAS FALLEN**
21 **SUBSTANTIALLY. IS THE RISK-FREE RATE SIGNIFICANTLY OFF ITS**
22 **HISTORICAL TREND?**

1 A: No. For either the 6-month or 12-month periods ending December 2001, the risk-free rate
2 has not deviated significantly from its 20-year trend.

3 **Q: HOW DID YOU TEST FOR CHANGES IN THE TREND?**

4 A: Using time-series of the 10-Year Treasury rate, I tested for a change in intercept or slope
5 for the series trend using a least-squares regression. By using a dummy variable to
6 indicate either the last 6 or 12 months of the series, a fully interactive, least-squares
7 regression can detect a statistically significant change in either the intercept or slope of
8 the trend. I find no statistically significant change in the trend for either period. Exhibit
9 GSF-SR3.

10 **Q: DO ANY OF YOUR PROPOSALS CONTRADICT, IN ANY WAY, WHAT THIS**
11 **COMMISSION DECIDED IN THE BELL SOUTH COST ORDER?**

12 A: No. All of my computations are consistent with those set forth in the BellSouth Cost
13 Order, but I use Mr. Draper's assumptions about the risk-free rate and the relevant bond
14 yields for Verizon and Sprint. I also incorporate the higher cost of bank loans into the
15 estimate of short-term debt, as proposed by Mr. Draper.

16 *Cost of Equity*

17 **Q: HAVE YOU REVIEWED MR. DRAPER'S ESTIMATION OF THE COST OF**
18 **EQUITY?**

19 A: Yes.

20 **Q: WHAT METHODS DID MR. DRAPER USE TO ESTIMATE OF THE COST OF**
21 **EQUITY?**

1 A: Mr. Draper employs two methods: 1) a two-stage discounted cash flow (“DCF”) model
2 and 2) the capital asset pricing model (“CAPM”).

3 **Q: WHAT CONCLUSIONS DOES MR. DRAPER DRAW FROM HIS DCF ANALYSIS?**

4 A: Mr. Draper estimates a cost of equity equal to 11.45% using the two-stage DCF model
5 and 11.13% using the CAPM.

6 **Q: LET’S ADDRESS EACH MODEL IN TURN. DO YOU AGREE WITH MR.
7 DRAPER’S COMPUTATIONS IN HIS DCF ANALYSIS?**

8 A: Unfortunately, Mr. Draper’s application of the two-stage DCF model is flawed. The
9 fundamental error in Mr. Draper’s DCF model causes his estimated cost of equity to be
10 severely skewed upward.

11 **Q: HOW IS MR. DRAPER’S DCF ANALYSIS FLAWED?**

12 A: The benefit of the two-stage over the constant growth version of the DCF model is that
13 the two-stage model allows for two stages of growth: “an initial phase in which the
14 growth rate is high and a subsequent steady state in which the growth rate is stable and
15 is expected to remain so for the long term.”² Or, as Mr. Draper puts it, the second stage
16 is a “period of sustainable growth.” Draper Rebuttal, p. 7. The second phase of stable
17 growth is required so that the firm does not grow indefinitely at a high growth rate,
18 eventually becoming as large as the economy. The first problem with Mr. Draper’s two-
19 stage model is that the growth rate in stage two (10.33%) exceeds the growth rate in

² Aswath Damodaran, *Damodaran on Valuation*, John Wiley and Sons, Inc.: New York (1994), p. 105.

1 stage one (3.3%). Thus, Mr. Draper's analysis is entirely at odds with the underlying
2 theory of the two-stage model.

3 **Q: IS IT NOT POSSIBLE FOR A FIRM TO GROW SLOWLY IN THE NEAR TERM,**
4 **THEN HAVE HIGHER GROWTH IN THE LONGER TERM?**

5 A: Yes. But in that scenario – with Mr. Draper's assumed growth rates -- you would need a
6 three-stage growth model. The issue is not only that Mr. Draper has inverted the growth
7 rates, but that the long-term growth rate substantially exceeds a sustainable long-term
8 growth rate for a firm.

9 **Q: WHY DO BELIEVE MR. DRAPER'S LONG-TERM GROWTH RATE IS TOO HIGH?**

10 A: General financial practice holds that the long-term sustainable growth rate cannot
11 exceed the growth rate of the economy, or at least exceed it by much. As observed by
12 Professor Aswath Damodaran,

13 [i]n practical terms, the stable growth rate cannot be larger than
14 the nominal (real) growth rate in the economy in which the firm
15 operates Damodaran on Valuation, p. 100.

16 This restriction on the growth rate is not entirely rigid, as Professor Damodaran
17 observes,

18 ... an analyst may be able to stray from a strict limit imposed on
19 the stable growth rate. If a firm is likely to maintain a few years of
20 above-stable growth rates, an approximate value for the firm can
21 be obtained by adding a premium to the stable growth rate, to
22 reflect the above-average growth in the initial years. Even in this
23 case, the flexibility that that analyst has is limited. The sensitivity
24 of the model to growth implies that the stable growth rate cannot
25 be more than 1% or 2% above the growth rate in the economy. If
26 the deviation becomes larger, the analyst will be better served by
27 using a two-stage or three-stage model to capture the
28 supernormal or above-average growth and restricting the use of

1 the [constant growth DCF model] to when the firm becomes truly
2 stable. Damodaran on Valuation, p. 101.

3 Over the past ten years, nominal gross domestic product ("GDP") has grown an average
4 of 5.4%. Exhibit GSF-SR5. Even if we add a growth premium as high as 2% to the 5.4%
5 growth rate of the economy, the long-term growth rate cannot exceed 7.4%. Thus, Mr.
6 Draper's assumed long-term growth rate of 10.3% is well outside the bounds of a
7 reasonable long-term, sustainable growth rate.

8 **Q: DID THIS ISSUE REGARDING LONG-TERM GROWTH RATES ARISE IN THE**
9 **BELLSOUTH PHASE OF THIS PROCEEDING?**

10 A: Yes. The Commission recognized the problem with high long-term growth rates in the
11 BellSouth Cost Order,

12 ... we find some merit in AT&T witness Hirshleifer's suggestion that
13 companies cannot sustain high growth rates indefinitely. According to an
14 article provided by witness Hirshleifer, a firm growing at 12% in an
15 economy growing at 6% will eventually become larger than the economy.
16 We believe this example has some application in this instance BellSouth
17 Cost Order, p. 153.

18 Just like the example cited by Commission in the BellSouth Cost Order (i.e., 12%/6%),
19 Mr. Draper's assumed long-term growth rate is about twice as high as the long-term
20 growth rate in the economy (i.e., 10.3%/5.4%) and, consequently, should be rejected as a
21 reasonable proxy for long-term growth. Later in my testimony, I employ the DCF model
22 with more reasonable estimates of long-term growth.

23 **Q: WHAT OTHER CONCERNS DO YOU HAVE WITH MR. DRAPER'S DCF**
24 **ANALYSIS?**

25 A: Mr. Draper's comparable firms conflict directly with the Commission's decision in the
26 earlier phase of this proceeding. Exhibit GSF-SR4.

1 Q: IN WHAT WAY DO THE COMPARABLE FIRMS SELECTED BY MR. DRAPER
2 CONFLICT WITH THE COMMISSION'S EARLIER DECISION?

3 A: In its BellSouth Cost Order, the Commission concluded "the [Regional Bell Holding
4 Companies] and GTE are an appropriate group to consider when deciding the cost of
5 capital for UNEs." BellSouth Cost Order p. 153. Observe that the Commission is
6 "deciding the cost of capital for UNEs," and not just Bellsouth. Furthermore, of Mr.
7 Draper's seven comparables, only two are consistent with the comparables prescribed
8 by this Commission in the BellSouth Cost Order. Exhibit GSF-SR4.

9 Q: DOES MR. DRAPER INCLUDE THE REGIONAL BELL COMPANIES, OR WHAT IS
10 LEFT OF THEM, IN HIS GROUP OF COMPARABLE FIRMS?

11 A: No. Mr. Draper includes BellSouth and Verizon in his DCF analysis, but excludes
12 Verizon from his CAPM analysis. SBC is excluded in both the DCF and CAPM analysis.

13 Q: DID YOU INCLUDE QWEST AS A COMPARABLE IN THE ANALYSES
14 PRESENTED IN YOUR REBUTTAL TESTIMONY?

15 A: For two reasons, Qwest was excluded from my list of comparables. First, and perhaps
16 most importantly, Qwest was not included in the list of "[Regional Bell Holding
17 Companies]" in the BellSouth Cost Order. BellSouth Cost Order, p. 153. Consistency with
18 that Order, therefore, requires that Qwest be excluded in this case as well. It is difficult
19 to imagine why Qwest is a valid comparable for Verizon, but not for BellSouth. Second,
20 while Qwest did acquire the Regional Bell Company US West, the "merged" Qwest is
21 clearly different from the Regional Bell Companies. Consequently, I do not believe it is

1 appropriate to include Qwest as a reasonable comparable for deciding the cost of capital
2 for UNEs.

3 **Q: HOW IS QUEST "CLEARLY DIFFERENT" FROM THE REGIONAL BELL**
4 **COMPANIES?**

5 A: Consider the important financial characteristics of Qwest relative to the Regional Bell
6 Companies. Currently, Qwest has a Beta of 1.42, whereas BellSouth, Verizon, and SBC
7 have Betas of 0.40, 0.51, and 0.48. Thus, Qwest's stock is about three-times as variable as,
8 or has three-times the business risk of, the Regional Bell Companies. US West, however,
9 had one of the lowest Betas of the Regional Bell Companies. Exhibit GSF-SR6. Also,
10 consider analysts expectations of long-term growth for the Bell Companies. While
11 earnings for BellSouth, Verizon, and SBC are all expected to grow at about 8%, Qwest
12 has an expected growth rate of nearly 16%. These averages do not tell the whole story,
13 however. The upper range of earnings growth for BellSouth, Verizon, and SBC is about
14 15%, whereas for Qwest the higher estimates of growth exceed 40%. At the lower end of
15 the estimates, some analysts expect negative 15% growth by Qwest. The other Regional
16 Bell Companies all have minimum growth expectations of about 4%. Finally, Qwest has
17 a bond rating that is nearly "junk bond" status.³ Clearly, Qwest does not fit very well
18 into a group of the Regional Bell Companies.

19 **Q: ARE THERE OTHER REASONS TO QUESTION MR. DRAPER'S SELECTION OF**
20 **COMPARABLES?**

³ Telecommunications Reports Daily, March 5, 2002.

1 A: Yes. In the BellSouth Cost Order, the Commission rejected a number of proposed
2 comparable firms because the companies did not receive “revenue for the provision of
3 unbundled network elements.” BellSouth Cost Order, p. 153. Three of Mr. Draper’s
4 seven comparables do not receive revenue for the provision of unbundled network
5 elements: AT&T, CenturyTel, and Telephone & Data Systems (“TDS”). Additionally, the
6 Commission also concluded that the “provision of local exchange service” was an
7 important criterion to be selected as a comparable. BellSouth Cost Order, p. 153. AT&T
8 is not primarily a local exchange carrier, and TDS receives only about 25% of its revenue
9 from local exchange services with the rest coming from its wireless operations.

10 **Q: CENTURYTEL IS ONE OF MR. DRAPER’S COMPARABLES, AND THE COMPANY**
11 **RECEIVES MOST OF ITS REVENUE FROM LOCAL EXCHANGE SERVICES.**
12 **SHOULD IT BE INCLUDED IN THE LIST OF COMPARABLE FIRMS?**

13 A: Including CenturyTel as a comparable in this phase of the proceeding would be
14 inappropriate, given that CenturyTel receives no revenue from the sale of UNEs and
15 was *excluded specifically* as a relevant comparable when deciding the cost of capital for
16 UNEs in the BellSouth phase.

17 **Q: IN WHAT WAY WAS CENTURYTEL EXCLUDED AS A COMPARABLE IN THE**
18 **BELLSOUTH PHASE?**

19 A: The Beta used in the BellSouth Cost Order was provided by Witness Hirshleifer. While
20 CenturyTel was included in Witness Hirshleifer’s original set of comparables, in the
21 final decision the Commission limited the comparables to the Regional Bell Companies
22 and GTE – specifically excluding CenturyTel. Exhibit GSF-SR4. As just stated, Qwest

1 was also absent from the list of comparables in Witness Hirshleifer's testimony. Thus,
2 both CenturyTel and Qwest were excluded from the relevant list of comparables "when
3 deciding the cost of capital for UNEs" in the earlier phase of this proceeding.

4 **Q: WHAT GROUP OF COMPARABLE FIRMS DO YOU RECOMMEND?**

5 A: Since we are deciding the "cost of capital for UNEs" in this phase as in the earlier phase
6 of this proceeding, it seems sensible to apply the same standards now as applied in that
7 earlier phase. In other words, the appropriate set of comparable firms is the Regional
8 Bell Companies.

9 **Q: SHOULD SPRINT BE INCLUDED AS A COMPARABLE?**

10 A: Sprint is perhaps a reasonable substitute for GTE, the latter of which was eliminated
11 from the list of comparables due to its merger with Bell Atlantic. Sprint is a local
12 exchange carrier and sells unbundled elements. Including Sprint brings the set of
13 comparables back to four firms, as was the case in the BellSouth Cost Order.

14 **Q: WHAT FIRMS ARE IN YOUR FINAL SET OF COMPARABLE FIRMS?**

15 A: There are four firms in my final set of comparables: BellSouth, Verizon, SBC, and Sprint.
16 Given that the inclusion of Sprint is questionable, I provide cost of equity estimates that
17 do and do not include Sprint as a comparable.

18 **Q: ACCORDING TO YOUR TESTIMONY THUS FAR, YOU BELIEVE MR. DRAPER**
19 **USES THE WRONG COMPARABLES, OVERSTATES THE LONG-TERM GROWTH**
20 **RATE, AND INVERTS THE GROWTH-RATES FOR THE HIGH AND LOW-**
21 **GROWTH PERIODS. WITH YOUR CHOSEN SET OF COMPARABLE FIRMS, IS IT**

1 **POSSIBLE TO ESTIMATE A DCF MODEL THAT ADJUSTS FOR THESE**
2 **SHORTCOMINGS?**

3 A: Yes. I have estimated a constant growth and a two-stage DCF model for the correct set of
4 comparable firms using theoretically valid methods and assumptions. The relevant
5 inputs for the procedure are provided in Exhibit GSF-SR7.

6 **Q: WHAT ARE THE RELEVANT INPUTS FOR THE DCF ANALYSIS?**

7 A: The constant growth DCF model is summarized by the equation

$$8 \qquad C_E = D \cdot (1 + g) / P(1 - F) + g$$

9 where C_E is the cost of equity, D is the current (or last) dividend, P_0 is the current price, F
10 are flotation costs expressed as a percentage of price, and g is the sustainable, long-term
11 growth rate. The long-term growth rate is approximated by the long-term, nominal
12 growth in the economy. The only additional input required for the two-stage model is
13 the growth rate for the high-growth period, because the long-term growth rate from the
14 constant growth version of the model (g) also serves as the long-term growth rate in the
15 two-stage model.

16 **Q: WHAT MODIFIED ASSUMPTION HAVE YOU USED FOR THE LONG-TERM,**
17 **SUSTAINABLE GROWTH RATE?**

18 A: As mentioned earlier, the economy has grown at a nominal rate of 5.4% over the past 10
19 years, and this growth rate is my chosen proxy for long-term growth. Cost of equity
20 estimates are also provided for long-term growth rates of 6.4% (+ 1%) and 7.4% (+2%).

1 **Q: HOW DID YOU ESTIMATE THE GROWTH RATE FOR THE HIGH-GROWTH**
2 **PERIOD?**

3 A: Consensus estimates of EPS (earnings per share) are used to proxy the growth rate
4 during the high-growth period. In Exhibit GSF-SR7, consensus estimates from four
5 different sources are provided. These estimates are typically five-year forecasts, so I use
6 a five year, two-stage DCF model whereas Mr. Draper used a four-year model.

7 **Q: WHAT IS THE AVERAGE GROWTH RATE FROM THE CONSENSUS**
8 **ESTIMATES?**

9 A: The consensus estimate of earnings growth for my comparables is about 8%. Exhibit
10 GSF-SR7. I provide estimates based on each individual estimate of long-term EPS
11 growth, as well as the average of the estimates.

12 **Q: WHAT VALUES DO YOU USE FOR THE OTHER RELEVANT INPUTS OF THE**
13 **ADJUSTED DCF MODEL?**

14 A: Price (P) is measured as the average price for the comparables during the month of
15 January 2002. The dividend (D) is measured as the comparable-average dividend in year
16 2001. For the constant growth model, the long-term growth rate (g) is assumed to be
17 5.4%, 6.4%, or 7.4%. Flotation costs are assumed to be 3% of price, as recommended by
18 Mr. Draper.

19 **Q: USING A CONSTANT GROWTH DCF MODEL, WHAT IS THE ESTIMATED COST**
20 **OF EQUITY?**

1 A: Using the long-term, sustainable growth rate of 5.4%, 6.4%, and 7.4%, the estimated cost
2 of equity is 8.28%, 9.31%, and 10.33%, respectively. Exhibit GSF-SR8.

3 **Q: DO YOU USE AN ANNUAL OR QUARTERLY DCF MODEL?**

4 A: My estimates are based on an annual model. The quarterly model is computing using

$$5 \quad C_E = [0.25 \cdot D(1+g)^{0.25} / P(1 - F) + (1+g)^{0.25}]^4 - 1,$$

6 where the variables are defined as before. The implied cost of equity from the quarterly
7 model is slightly higher than the annual model, but not large enough to change the
8 implied cost of capital at the tenth percentage point. For example, the cost of equity from
9 the quarterly model using a growth rate of 5.4% is 8.31%, which is a 3 basis point
10 difference from the annual model. Exhibit GSF-SR8. While the difference between the
11 two models is not large, in the BellSouth Cost Order the Commission did “agree with
12 witness Hirshleifer that the annual DCF model is the appropriate one ...” BellSouth Cost
13 Order, p. 154.

14 **Q: USING THE TWO-STAGE DCF MODEL, INCLUDING THE RECOMMENDED**
15 **CHANGES TO MR. DRAPER’S ANALYSIS DESCRIBED IN YOUR RESPONSE TO**
16 **HIS TESTIMONY, WHAT IS THE ESTIMATED COST OF EQUITY?**

17 A: Across a range of estimates, the average estimated cost of equity from the two-stage
18 model with four comparables is 9.50%, with a range of 8.49% to 10.47%. Exhibit GSF-
19 SR8. Excluding Sprint from the list of comparables, the estimated cost of equity is 9.60%,
20 with a range of 8.63% to 10.56%. Excluding Sprint has a small effect on the estimated
21 cost of equity.

1 Q: WHAT ASSUMPTION DO YOU CHANGE TO CREATE THE RANGE OF
2 ESTIMATES OF THE COST OF EQUITY?

3 A: I use 15 versions of the two-stage DCF model to estimate the cost of equity. Five short-
4 term growth rates are used, including the four consensus estimates and the average of
5 these estimates. Three long-term growth rates are used, 5.4%, 6.4%, and 7.4%. Pairing
6 each of these growth rates creates 15 different scenarios. When all four comparables are
7 used, only 14 scenarios are legitimate because in one case the short-term growth rate is
8 less than the long-term growth rate.

9 Q: WHAT IS THE EFFECT OF FLOTATION COSTS ON THE COST OF EQUITY?

10 A: Flotation costs increase the cost of equity by about 3 basis points per percentage of
11 flotation costs. Given the assumption of 3% flotation costs, the total effect of flotation
12 costs on the cost of equity is about 9 basis points. The magnitude of this effect depends
13 on the assumed growth rate, according to the following formula:

$$14 \quad \Delta C_E = \Delta F \cdot 1.03 \cdot D(1 + g)/P$$

15 for the constant growth model. The effects of flotation costs in the constant-growth and
16 the two-stage model are roughly the same. Given a long-term growth rate of 5.4%, the
17 effect of flotation costs on the cost of equity is equal to $\Delta C_E/\Delta F = 1.03 \cdot 0.03 = 0.03$ per
18 percentage point of flotation costs. So, if $F = 0.03$, then the effect on the cost of equity is
19 $3 \cdot 0.03 = 0.09$. Exhibit GSF-SR8.

20 Q: HOW DO THESE ESTIMATES OF THE COST OF EQUITY COMPARE TO THOSE
21 SUMMARIZED IN YOUR REBUTTAL TESTIMONY?

1 A: In my Rebuttal Testimony, the CAPM was used to estimate a cost of equity of about
2 10%. Thus, once Mr. Draper's DCF method has been adjusted to reflect the items I
3 discussed earlier, it produces estimates very similar to those produced by the CAPM
4 presented in my Rebuttal Testimony.

5 **Q: DO YOU HAVE ANY CONCERNS WITH MR. DRAPER'S APPLICATION OF THE**
6 **CAPM TO ESTIMATE THE COST OF EQUITY?**

7 A: Yes. As previously discussed, I do not believe the comparables chosen by Mr. Draper are
8 appropriate. Clearly, his comparables are not consistent with the Commission's own
9 analysis set forth the BellSouth Cost Order. Exhibit GSF-SR4.

10 **Q: DO YOU HAVE OTHER CONCERNS WITH MR. DRAPER'S USE OF THE CAPM?**

11 A: Yes. Setting the issue of comparables aside for the moment, I disagree with Mr. Draper's
12 recommended Beta of 1.02, which is the average of the Betas for some, but not all, of his
13 comparable firms. I have three concerns related to his recommended Beta. First, the
14 CAPM analysis excludes Verizon and AT&T, but the DCF analysis did not. No
15 explanation for why Verizon and AT&T were excluded from the CAPM analysis was
16 provided. Consequently, only one Regional Bell Company (BellSouth) was included as a
17 comparable in Mr. Draper's application of the CAPM.

18 Second, a Beta of 1.02 presumes that the UNE business is more risky than the market as
19 a whole. This implication strongly contradicts the Commission's conclusions in the
20 BellSouth Cost Order.

1 Third, this Commission found, in the BellSouth Cost Order, that a Beta of 0.73 was
2 unreasonably high for UNEs. BellSouth Cost Order, p. 153. To now find that a Beta of
3 1.02 is reasonable seems a bit arbitrary. For certain, BellSouth likely will take offense at
4 Verizon having its cost of capital based on a Beta of 1.02 versus the 0.66 Beta applied to
5 BellSouth in May of last year.

6 Finally, the Betas listed in Mr. Draper's testimony are considerably higher than the
7 actual Betas for the listed companies. For example, BellSouth has a Beta just over 0.40,
8 yet Mr. Draper presents a Beta for BellSouth of 0.85 - over twice the actual Beta. As a
9 point of interest, BellSouth has not had a Beta of 0.85 since early 1987.

10 **Q: HAVE YOU COMPUTED THE BETAS FOR MR. DRAPER'S LIST OF**
11 **COMPARABLES?**

12 **A:** Yes. If the actual Betas are used for his comparables, the average Beta is 0.83, not 1.02.
13 Exhibit GSF-SR9.

14 **Q: WHY ARE MR. DRAPER'S BETAS SO OVERSTATED?**

15 **A:** Mr. Draper's Betas are provided by ValueLine. The ValueLine Betas are computed using
16 the following formula:

$$17 \beta_v = 0.33 + 0.67\beta,$$

18 where β_v is the ValueLine Beta and β is the actual Beta. Note that I use the actual Beta in
19 my computations. The ValueLine Betas are often called "Blume Betas," because the
20 adjustment is based on a paper written by Marshall Blume in the early 1970s. Marshall
21 Blume, *On the Assessment of Risk*, *Journal of Finance*, Vol. 26, 1971, pp. 1-10; Marshall

1 Blume, Betas and Their Regression Tendencies, *Journal of Finance*, vol. 30, 1973, pp. 785-
 2 795. In this paper, Blume found that the average Beta of a portfolios of firms --
 3 constructed based on the size of the firm Betas in the first year(s) of the series - was
 4 closer to one in the last year(s) of the series. Thus, Blume concludes that Betas tend
 5 toward one and suggests an adjustment to account for this proposition. The effect of
 6 Blume's adjustment is to increase *indiscriminately* any Beta less than 1.00 and to decrease
 7 any Beta greater than 1.00.

8 **Q: IS THIS BLUME ADJUSTMENT APPROPRIATE IN THE PRESENT CONTEXT?**

9 A: No, and I would argue that they are rarely appropriate. I have reviewed Blume's work,
 10 and it appears as if ValueLine has made a common error in statistical analysis referred to
 11 as "regression to the mean." Nobel Economist Milton Friedman wrote a brief article in
 12 1992 entitled "Do Old Fallacies Ever Die?" regarding the frequency with which this
 13 fallacy occurs in academic research.⁴ It was published in *Journal of Economic Literature*,
 14 Vol. XXX, 1992, pp. 2129-2132. We need not focus on this "theoretical" dispute,
 15 however, to show that the Blume or ValueLine Betas are inappropriate in the present
 16 context. This very question has been addressed directly in a recent academic paper by
 17 Martin Lally entitled "An Examination of Blue and Vasicek Betas, *The Financial Review*,
 18 Vol. 33, 1998, pp. 183-198..

19 **Q: WHAT DOES THE RESEARCH OF PROFESSOR LALLY CONCLUDE REGARDING**
 20 **THE USE OF BLUME BETAS?**

?,

1 A: Professor Lally is critical of the Blume adjustment to Beta because the indiscriminate
2 application of the adjustment fails to take into account the industry in which the firm
3 operates. In a highly relevant analogy, Professor Lally observes:

4 A dramatic example of this is in U.S. electric utilities. A typical
5 such firm has an estimated beta (unadjusted) of around 0.4. ... By
6 contrast, Blume adjusts the 0.4 to 0.6 [i.e., $0.33 + 0.67(0.4)$]. The
7 result is a dramatic overestimate by Blume, because a singularly
8 relevant fact is ignored, i.e., membership of an industry whose
9 average estimated, and therefore presumably also true, beta is
10 well below one. Lally, p. 192.

11 In contrast to Blume, Lally finds that industry average Betas tend to "the industry mean
12 rather than the global mean of one." Lally, p. 186. The relevance of Lally's research to the
13 current proceeding is described accurately by the author:

14 Given that these firms have output prices that are set so as to
15 recover costs, including the cost of equity, and they have
16 substantial equity investments, then the implications of using
17 Blume betas (i.e., not portioning into industries) for measuring
18 costs of equity are particularly severe. Lally, p. 192.

19
20 Thus, the use of ValueLine or Blume Betas is inappropriate when computing the cost of
21 equity for the UNE business, or any line of business for that matter. ValueLine or Blume
22 Betas are only relevant for broad portfolios of stocks grouped only with reference to
23 their observed historical Betas.

24 **Q: DOES THE AVERAGE BETA OF THE BELL COMPANIES SHOW ANY TENDENCY**
25 **TOWARD ONE?**

26 A: No. Exhibit GSF-SR10 provides graphs of both the average Beta of the Bell Companies
27 (BellSouth, Verizon, and SBC) and the Coefficient of Variation of the Beta over a number
28 of years. These graphs show clearly that the Beta of the Bell Companies (BellSouth,

1 Verizon, and SBC) exhibits no tendency toward 1.00. In fact, it appears as if the Bell
2 Company Beta is tending toward zero, if anything. Further, the coefficient of variation –
3 that is the standard deviation divided by the mean, where both are computed over
4 twelve month intervals -- exhibits no observable diminution of variance, which is a true
5 test of convergence. Friedman, p. 2129.

6 **Q: ARE THE BETAS PROVIDED BY MR. DRAPER CONSISTENT WITH THE BETAS**
7 **USED IN THE BELL SOUTH COST ORDER?**

8 A: No. The Betas used in the BellSouth Cost Order were computed using 60 months of
9 returns on the relevant stock price and the S & P 500.

10 **Q: WHAT BETAS DO YOU USE IN YOUR OWN ANALYSIS?**

11 A: Actual Betas, as the Commission did in the Bellsouth Cost Order, without the arbitrary
12 and incorrect Blume adjustments.

13 **Q: MR. DRAPER INCLUDES AN ADJUSTMENT FOR FLOTATION COSTS IN HIS**
14 **CAPM ANALYSIS. DO YOU BELIEVE THAT IS APPROPRIATE?**

15 A: Given the decision in the BellSouth Cost Order, I believe Mr. Draper's inclusion of an
16 adjustment for flotation costs is reasonable. In the BellSouth Cost Order, the
17 Commission concluded, "[w]e believe flotation costs are appropriate because the
18 evidence shows that these costs are incurred by firms that raise capital and represent a
19 reduction to the proceeds from the issuance of stock." BellSouth Cost Order, p. 153. The
20 3% figure recommended by Mr. Draper is reasonable, given that this Commission
21 concluded that a "5% flotation allowance may be somewhat high." BellSouth Cost

1 Order, p. 153. Note, however, that the Commission did not include flotation costs in its
2 final decision in the BellSouth Cost Order.

3 **Q: DO YOU HAVE ANY OTHER COMMENTS ON MR. DRAPER'S**
4 **IMPLEMENTATION OF THE CAPM?**

5 A: Yes. Mr. Draper employs the 10-Year Treasury for the risk-free rate in his cost of debt
6 calculations. Mr. Draper makes an affirmative case for using the 10-Year Treasury,
7 noting, "the Federal Reserve has stopped issuing the 30-year Treasury bond, [so] I have
8 used the 10-year Treasury Bond in calculating a forecasted cost for long-term debt."
9 Draper Rebuttal at 5. Given his affirmative case for the 10-Year Treasury, it is unclear
10 why he then uses the 30-Year Treasury bond to proxy for the risk-free rate when
11 estimating the cost of equity. While I believe using either the 10-year or 30-year Treasury
12 is reasonable, I believe the same proxy should be used for the cost of debt and for the
13 cost of equity.

14 **Q: WHAT EFFECT WILL CHANGING THE RISK-FREE RATE HAVE ON THE FINAL**
15 **ESTIMATES OF THE COST OF DEBT AND EQUITY?**

16 A: The difference between the yields is not large, so adopting a more consistent approach
17 has little effect. Since Mr. Draper makes an affirmative case for the use of the 10-year
18 Treasury, I recommend that the yield on the 10-year Treasury, or 4.77%, serve as the
19 risk-free rate for all computations. That said, either the 10- or 30-year Treasury is a

1 reasonable proxy for the risk-free rate. McKinsey & Company, Inc., recommends using
2 the 10-year Treasury bond for the risk-free rate.⁵

3 **Q: DID YOU ESTIMATE THE COST OF EQUITY USING THE FOUR COMPARABLES**
4 **AND THE CAPM?**

5 A: Yes. In my Rebuttal Testimony, I employed the average Beta of the Bell Companies
6 (BellSouth, Verizon, and SBC) for year 2001, or 0.58. Adding Sprint to this group of firms
7 increases the Beta to 0.61. Exhibit GSF-SR9. Moving to the 10-year Treasury bond as the
8 risk-free security, Mr. Draper's proposed market-risk premium increases from 5.47 to
9 6.10. Exhibit GSF-SR11.

10 **Q: INCORPORATING THE CHANGES JUST DISCUSSED, WHAT IS THE ESTIMATE**
11 **OF THE COST OF EQUITY USING THE CAPM?**

12 A: With a risk-free rate of 4.77%, a Beta of 0.61, a market-risk premium of 6.10%, and
13 flotation adjustment of 9 basis points, the cost of equity is

14
$$4.77 + 0.61 \cdot 6.10 + 0.09 = 8.58\%.$$

15 If Sprint is excluded as a comparable, the cost of equity is

16
$$4.77 + 0.58 \cdot 6.10 + 0.09 = 8.40\%,$$

17 which is only slightly less than the cost of equity computed using all four comparables.

18 **Q: IN SUM, WHAT IS THE ESTIMATED COST OF EQUITY AFTER THE NECESSARY**
19 **CHANGES ARE MADE TO MR. DRAPER'S ANALYSES?**

⁵ Tom Copeland, Tim Koller, and Jack Murrin, *Valuation: Measuring and Managing the Value of Companies*, 3rd Ed., McKinsey & Company, Inc., (2000).

1 A: The estimated cost of equity capital is about 9% (i.e., the average of 8.58, 9.45, 9.58, and
2 9.31). If only the DCF results are used, the cost of equity is closer to 9.5%. From the
3 sensitivity analysis performed using the DCF models, the upper bound on the cost of
4 equity is about 10.5%.

5 **Q: DO YOU BELIEVE THESE ESTIMATES ARE RELIABLE PROXIES FOR THE**
6 **FORWARD-LOOKING COST OF EQUITY?**

7 A: Yes. The DCF and CAPM estimates are very similar. All estimates are derived from
8 public data and standard methods. Further, these estimates also are a synthesis of Mr.
9 Draper's analysis and the decision made by this Commission in the BellSouth Cost
10 Order. Thus, I believe these estimates are reasonable.

11 *The Weighted-Average Cost of Capital*

12 **Q: USING THE DEBT AND EQUITY COSTS THAT RESULT FROM YOUR**
13 **PROPOSED ADJUSTMENTS TO MR. DRAPER'S ANALYSES, WHAT IS THE**
14 **INDICATED FORWARD-LOOKING WEIGHTED-AVERAGE COST OF CAPITAL**
15 **FOR VERIZON?**

16 A: The forward-looking cost of debt for Verizon is estimated to be 6.04%. All three methods
17 used to estimate the cost of equity – the constant growth DCF model, the two-stage DCF
18 model, and the CAPM – produce estimates of about 9%. Assuming a capital structure of
19 40% debt and 60% equity, the weighted-average cost of capital for Verizon is

20
$$0.40 \cdot 6.04 + 0.60 \cdot 9.00 = 7.82\%.$$

1 My sensitivity analysis on the cost of equity produced an estimate as high as 10.56%,
2 which implies a cost of capital of 8.75%. At the other extreme, the low estimate of the
3 cost of capital from the sensitivity analysis is 7.51%. Exhibit GSF-SR11.

4 **Q: AND WHAT IS THE ESTIMATED FORWARD-LOOKING COST OF CAPITAL FOR**
5 **SPRINT?**

6 A: For Sprint, the cost of debt is estimated to be 6.42%. Given a cost of equity of 9%, the
7 weighted-average cost of capital is

$$8 \quad 0.40 \cdot 6.42 + 0.60 \cdot 9.00 = 7.97\%,$$

9 or about 8.0%. The sensitivity analysis bounds the cost of capital between 7.53% and
10 8.90%. Exhibit GSF-SR11.

11 **Q: DO THESE NUMBERS DIFFER SUBSTANTIALLY FROM YOUR REBUTTAL**
12 **TESTIMONY?**

13 A: No. In my rebuttal testimony, I estimated a weighted average cost of capital of about
14 8.5%. Thus, Mr. Draper's estimates, corrected to be more consistent with the Bellsouth
15 Cost Order and standard practice and theory, are slightly lower than my estimates, on
16 average. The upper-bound estimates from the adjusted Draper analysis are most
17 consistent with my earlier estimates.

18 **Q: WHAT ARE YOUR FINAL OBSERVATIONS REGARDING THE WEIGHTED**
19 **AVERAGE COST OF CAPITAL FOR VERIZON AND SPRINT?**

20 A: Based upon my Rebuttal Testimony and the adjusted estimates of Mr. Draper's analysis
21 computed in this testimony, the respective, weighted-average cost of capitals for Verizon

1 and Sprint are in the 8.0% to 8.5% range, with Sprint's cost of capital being slightly
2 higher than Verizon's.

3 **Q: THESE ESTIMATES ARE ABOUT 200 BASIS POINTS LESS THAN THE COST OF**
4 **CAPITAL DETERMINED IN THE BELL SOUTH CASE. HOW DO YOU RECONCILE**
5 **THIS LARGE DIFFERENCE IN THE COST OF CAPITAL BETWEEN THE**
6 **BELL SOUTH CASE AND NOW?**

7 A: The explanation for this sizeable fall in the cost of capital is detailed in my Rebuttal
8 Testimony and discussion here. The fact is that since the time period used to generate
9 the cost of capital in the BellSouth Cost Order, the 10-Year Treasury yield has fallen by
10 about 150 basis points, commercial paper costs have fallen by over 400 basis points, the
11 prime rate has fallen by nearly 390 basis points, A-rated utility bond yields are down 75
12 basis points, Baa-rated utility bond yields are down nearly 50 basis points, and the Betas
13 of the Regional Bell Companies are down 30%. At this point, to argue that the cost of
14 capital for the UNE business is anywhere near the 10.24% established in the BellSouth
15 Cost Order requires one to ignore everything that has happened in the financial markets
16 over the past few years. Indeed, any estimate of the current cost of capital for UNEs not
17 substantially below 10.24% is suspect.

18 **Q: HAVE ANY COMMISSIONS IN BELL SOUTH STATES ADOPTED A COST OF**
19 **CAPITAL IN THE RANGE YOU RECOMMEND?**

1 A: Yes. The current cost of capital in Georgia is 9.27%. Notably, of all the BellSouth states,
2 Georgia has the highest percentage of end-users served by ALECs.⁶

3 Q: **DOES THIS CONCLUDE YOUR TESTIMONY?**

4 A: Yes.

⁶ Federal Communications Commission, *Local Telephone Competition: Status as of June 30, 2001*, February 2002, Table 6.

1 **Q: PLEASE STATE YOUR NAME AND BUSINESS ADDRESS**

2 A: My name is George S. Ford. My business address is 601 South Harbour Island
3 Boulevard, Suite 220, Tampa, Florida 33602.

4 **Q: HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS DOCKET?**

5 A: Yes. I filed Revised Rebuttal Testimony on January 30, 2002.

6 **Q: WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL TESTIMONY?**

7 A: In my Revised Rebuttal testimony, I described the use of the output of the FCC's HCPM
8 cost model to develop relationships between the costs that BellSouth and Verizon incur to
9 provide UNEs and the rates that correspond to those costs. During my deposition I was
10 apprised that the FCC recently made adjustments to its computation of loop and
11 switching costs within the context of this comparative analysis. I have updated my
12 calculations to mirror those the FCC employed in the 271 Orders beginning with the
13 Pennsylvania 271 Order. These computations are made using the most recent version of
14 HCPM output files. The purpose of this supplemental testimony is to sponsor Exhibit
15 ___ (GSF-12), which shows the results of the update. The exhibit is attached.

16 **Q: DOES THE RESULT OF APPLYING THE MOST RECENT CALCULATIONS
17 AND VINTAGE OF HCPM LEAD YOU TO ALTER YOUR CONCLUSIONS IN
18 ANYWAY?**

19 A: No. As the exhibit shows, the use of the updated calculations does not result in any
20 material changes to my earlier exhibit. In fact, the discrepancies that I described in my
21 earlier testimony are slightly more pronounced in the updated exhibit.

22 **Q: DOES THAT COMPLETE YOUR TESTIMONY?**

23 A: Yes.

1 CHAIRMAN JABER: Okay. Staff, what's next?

2 MR. FUDGE: Go through the stipulated exhibits for
3 Sprint.

4 We'll begin with Sprint's Stip 1. It includes
5 Sprint's Response to Staff's Interrogatories 1 through 209 and
6 Sprint's Response to Staff's Production of Documents, Items 1
7 through 51.

8 CHAIRMAN JABER: Okay. Just for the sake of
9 convenience, the list you've given me consists of two pages.
10 It's identified as Staff's exhibit list. It's dated April 25th
11 at 1:45 p.m. Is that the latest version?

12 MR. FUDGE: Yes.

13 CHAIRMAN JABER: I'm going to quickly run down the
14 list and identify these exhibits. And if I make a mistake,
15 just correct me. Okay?

16 MR. FUDGE: Okay.

17 CHAIRMAN JABER: Exhibit 10 will be Sprint's Stip 1.
18 Exhibit 11, Sprint Stip 2. Exhibit 12 is TOC-1D. Exhibit 13,
19 JRD-1D. Exhibit 14, KWD-1D. Exhibit 15, MRH-1D. BKS-1D is
20 Exhibit 16. Exhibit 17 looks like a confidential exhibit,
21 Staff?

22 MR. FUDGE: Yes, Commissioner.

23 CHAIRMAN JABER: And that's Sprint Stip 1. Exhibit
24 18 is Verizon Stip 1. Exhibit 19, Verizon Stip 2. Exhibit 20
25 is Verizon Stip 3. Exhibit 21 is a confidential exhibit,

1 Verizon Stip 1. Exhibit 22 is JWV-1D. Exhibit 23, DBT/TRD-1.
2 Exhibit 24, AS-1D. Exhibit 25, DGT-1D. Exhibit 26, LR-1D.
3 Exhibit 27, ALEC Stip 1. Exhibit 28, AHA-1D. Exhibit 29,
4 AHA-2D. Exhibit 30, WRF-1D. Exhibit 31, SLM-1D. Exhibit 32,
5 SLM-2D. Exhibit 33 is KMC Stip 1. Exhibit 34, FWW-1D.
6 Exhibit 35, Z-Tel Stip 1. Exhibit 36, GSF-1D. And Exhibit 37,
7 DJD-1D. That completes the list.

8 MR. FUDGE: Yes, Commissioner.

9 CHAIRMAN JABER: Hang on, Ms. Caswell. I know you
10 have another list. But does that complete Staff's list?

11 MR. FUDGE: I just wanted to note that today Verizon
12 updated one of their responses to Staff's discovery, that's
13 Stip 2, so that would include Verizon's updated response.

14 CHAIRMAN JABER: Okay. Let's make sure.
15 Ms. Caswell, why don't you go ahead and read what your
16 understanding of Verizon's Stip 2, what that includes.

17 MS. CASWELL: Stip 2 would include everything that
18 Staff has listed on the cover page of Stip 2, with the addition
19 of Verizon Florida, Inc.'s, revised response to Staff
20 Interrogatory Number 219.

21 CHAIRMAN JABER: Okay. Anything else on Staff's list
22 before I admit these into the record? Staff?

23 MR. FUDGE: Those are all, Commissioner.

24 CHAIRMAN JABER: Okay. Then Exhibits 10 through 37
25 are admitted into the record.

1 (Exhibits 10 through 37 marked for identification and
2 admitted into the record.)

3 CHAIRMAN JABER: Okay. Staff?

4 MR. FUDGE: Verizon has a list that they would like
5 to introduce as stipulated exhibits.

6 MS. CASWELL: Verizon handed out its list earlier
7 today. It consists of Staff's Response and Objection to
8 Verizon Florida's First Request for Production of Documents and
9 Z-Tel Communications' Response to Verizon Florida's First
10 Request for Production of Documents.

11 CHAIRMAN JABER: Okay. Ms. Caswell, how about we
12 identify Staff's response to the first --

13 MS. CASWELL: We can identify the whole -- well, it's
14 up to you whether you want to do it as a composite or --

15 CHAIRMAN JABER: Okay. Let's do it as a composite
16 exhibit. Staff's Response and Objection to Verizon's Request
17 for POD Number 1 and Z-Tel's Response to Verizon's Request for
18 Production of Document Number 1 are Composite Exhibit 38.

19 MS. CASWELL: Thank you.

20 CHAIRMAN JABER: And Composite Exhibit 38 is admitted
21 into the record.

22 (Composite Exhibit 38 marked for identification and
23 admitted into the record.)

24 CHAIRMAN JABER: Are there any other stipulated
25 exhibits that we need to address, Mr. Fudge?

1 MR. FUDGE: No, Commissioner. I believe that
2 concludes the Sprint portion of the hearing.

3 CHAIRMAN JABER: All right. We need to excuse the
4 Z-Tel witness and the KMC witness.

5 MR. FUDGE: And Staff's witness.

6 CHAIRMAN JABER: And Mr. Draper.

7 Sprint, thank you. And let me thank all the parties
8 for reaching an agreement at least with respect to the
9 witnesses.

10 MR. FONS: Thank you for the opportunity.

11 CHAIRMAN JABER: Any time. Okay. Mr. Fudge, that
12 brings us to the Verizon part?

13 MR. FUDGE: Yes, Commissioners. On April 12th, 2002,
14 the prehearing officer issued an order denying Verizon's motion
15 to compel discovery from the ALEC Coalition and Z-Tel. On
16 April 23rd, 11 days later, Verizon filed two separate motions
17 for reconsideration.

18 Staff believes those motions are untimely pursuant to
19 25-22.0376. Those responses should have been filed within 10
20 days, as also detailed in the notice of further proceedings
21 attached to the prehearing officer's order.

22 CHAIRMAN JABER: All right. How would you recommend
23 we go forward? This is a motion for reconsideration that
24 Verizon has requested the full Commission consider.

25 MR. FUDGE: Yes, Commissioner.

1 CHAIRMAN JABER: And your recommendation is what?

2 MR. FUDGE: Is that the motions are untimely and,
3 therefore, should be denied.

4 CHAIRMAN JABER: Commissioners, we have a motion for
5 reconsideration by Verizon that Staff believes is untimely.

6 As I understand it, the request for reconsideration
7 to a prehearing officer's order would have been due within 10
8 days of the order. The order was issued April 12th. The
9 motion for reconsideration came in April 23rd. Do I have a
10 motion or how would you like to go forward?

11 MR. HUTHER: Chairman Jaber, this is Chris Huther on
12 behalf of Verizon. If I might be heard.

13 CHAIRMAN JABER: Hang on one second. Commissioner
14 Bradley?

15 COMMISSIONER BRADLEY: Why don't we hear him and then
16 I'll make my comments.

17 CHAIRMAN JABER: Okay. Go ahead.

18 MR. HUTHER: As noted in our motion for
19 reconsideration which was filed pursuant to Florida
20 Administrative Code, Section 25-22.060, Motion For
21 Reconsideration, the time period for filing a motion for
22 reconsideration under Section E(3) entitled, "Time," provides
23 that a motion for reconsideration of a final order shall be
24 filed within 15 days after issuance of the order. That was the
25 basis of our motion. That is the Administrative Code. And, as

1 Mr. Fudge noted, it was filed well within that 15-day time
2 period.

3 MR. McGLOTHLIN: Chairman Jaber?

4 CHAIRMAN JABER: Excuse me. Hang on one second.

5 Give me your name one more time. It's Mr. Huther?

6 MR. HUTHER: That's correct, Chairman.

7 CHAIRMAN JABER: Thank you. Who was that? Mr.

8 McGlothlin.

9 MR. McGLOTHLIN: Over here. Chairman Jaber, so that
10 all the Commissioners are aware, Z-Tel filed a motion to strike
11 the motion for reconsideration as untimely last Friday invoking
12 Rule -- which governs the nonfinal order such as orders by a
13 prehearing officer.

14 CHAIRMAN JABER: Staff, there is a pending motion to
15 strike filed by Z-Tel alleging that Verizon's motion for
16 reconsideration is untimely. It seems to me we should rule on
17 the motion to strike first.

18 MR. FUDGE: That is correct, Commissioners. But you
19 could do it either way; you could rule on your own motion that
20 the motions for reconsideration are untimely or, if you do
21 decide to rule on a motion to strike, you would have to provide
22 Verizon an opportunity to respond to the motion to strike today
23 or they would have to waive their opportunity to respond.

24 COMMISSIONER DEASON: Let me ask Staff a question.
25 The rule cited by Verizon is the wrong rule applicable to this

1 situation because it's a nonfinal order?

2 MR. FUDGE: Yes, Commissioner. Yes. That's correct.

3 CHAIRMAN JABER: And I have an additional question.
4 Staff, the order, as I read it, actually gives the parties the
5 appropriate recourse to follow, at least that's my
6 understanding. Now was that language included in this order?

7 MR. FUDGE: Yes, Commissioner. I have the order, and
8 at the back of the order in the notice of further proceedings
9 it says, "Any party adversely affected by this order which is
10 preliminary, procedural or intermediate in nature may request
11 reconsideration within 10 days pursuant to Rule 25-22.0376, if
12 issued by a prehearing officer."

13 CHAIRMAN JABER: Now remind me. This is going back
14 from my days in legal. I remember a court case where the
15 Commissioners extended the reconsideration period and the case
16 went up on appeal, something completely different, and the
17 court came back and said the Commission exceeded its
18 jurisdictional authority. Are you familiar with that case?
19 I'm speaking off of memory.

20 MR. FUDGE: Yes, Chairman. That's the City of
21 Hollywood case. In that case the court determined that an
22 agency could not extend the time for filing motions for
23 reconsideration because that infringed upon the court's
24 jurisdiction to hear the matter. And in a proceeding before
25 the Commission, an application for rate increase in Brevard

1 County by Florida Water, the Commission noted that, quoting,
2 "We believe that granting Mr. Dire (phonetic) an opportunity to
3 file a revised motion for reconsideration would, in effect,
4 extend the period provided in the rule for filing a motion for
5 reconsideration. The Florida courts have held that a state
6 agency cannot extend the time for filing a motion for
7 reconsideration beyond the time set forth in its rules."

8 CHAIRMAN JABER: Commissioners, what's your pleasure?
9 Do you have a motion or do you need to discuss it further?
10 Commissioner Bradley, you're recognized.

11 COMMISSIONER BRADLEY: For discussion.

12 CHAIRMAN JABER: Go ahead.

13 COMMISSIONER BRADLEY: The only thing that gives me a
14 little heartburn about, about the motion itself is the fact
15 that, that there may be some relevant testimony that's
16 extremely germane to the proceeding that we are involved in
17 today. And I recognize that Verizon has missed a time frame
18 and that we have some legal technicalities involved here. But
19 my only question is, as I said, my question is how do we get
20 the information that we may be denying so that we can give a
21 really good, comprehensive, have a process that allows us to
22 discover each and every item and to have all the information
23 that we need to have in order to make a good, sound discovery,
24 I mean, decision about what we're considering? And I'm just
25 concerned that I would rather err in the direction of having

1 too much information rather than too little. And I heard what,
2 what, what Staff said, but I'm just concerned that --

3 CHAIRMAN JABER: Well, let me see if I can help you
4 out, Commissioner Bradley, by putting sort of the whole motion
5 in perspective.

6 Even if we legally can deal with the, the time period
7 for when the motion for reconsideration could have been filed
8 or should have been filed --

9 COMMISSIONER BRADLEY: Uh-huh.

10 CHAIRMAN JABER: -- the standard, and, Staff, you
11 need to jump in if I say anything incorrectly, but the standard
12 for reconsideration is did the prehearing officer make a
13 mistake of fact or a mistake of law. And it doesn't matter
14 from that standpoint how we would have ruled on the motion to
15 compel or the request for discovery, but rather from a legal
16 standpoint did the prehearing officer make a mistake of fact or
17 law? Now we haven't reached that question because we've got to
18 address the timeliness of the motion.

19 So the first, it seems to me the first thing we need
20 to do, Commissioners, is take up the motion to strike.

21 Commissioner Bradley, does that help you out a little
22 bit? I understand the frustration, but those are -- you're
23 sort of preaching to the choir because I have shared that
24 frustration on motions for reconsideration in the past. But
25 it's a strict legal standard: Was there a mistake of fact or

1 law? And it doesn't matter how the rest of us would have ruled
2 or, you know, what went into the ruling. The question is was
3 there a mistake of fact or law made? But before we can reach
4 that, we've got to address timeliness.

5 COMMISSIONER PALECKI: Madam Chairman, I'm of the
6 opinion that the motion was untimely filed, the motion for
7 reconsideration. I would move that the motion to strike be
8 granted.

9 CHAIRMAN JABER: Commissioners, there's been a motion
10 to grant Z-Tel's motion to strike.

11 COMMISSIONER DEASON: Second.

12 CHAIRMAN JABER: There's been a motion and a second.
13 All those in favor, say aye.

14 (Simultaneous affirmative vote.)

15 CHAIRMAN JABER: The motion to strike has been
16 granted unanimously.

17 So, Staff, that renders, that renders the motion for
18 reconsideration stricken?

19 MR. FUDGE: Yes, Commissioner. No ruling would be
20 required on those motions.

21 CHAIRMAN JABER: Okay. Any other pending motions?

22 MR. FUDGE: Staff is not aware of any.

23 CHAIRMAN JABER: Okay. Are we at the point where I
24 can swear in the witnesses now for Verizon for the Verizon
25 portion of the hearing?

1 MR. FUDGE: There still are pending stipulations on
2 some of the witnesses for the Verizon portions. If we can go
3 over those now.

4 MR. HATCH: Madam Chair, could I ask one
5 clarification question?

6 CHAIRMAN JABER: The microphone system is not working
7 very well, y'all, so you need to speak right into the
8 microphone. Go ahead, Mr. Hatch.

9 MR. HATCH: I just had one quick clarification. With
10 respect to all of the exhibits, there was a number, a fair
11 number of supplemental responses to all of the interrogatories
12 all the way around. I'm assuming when these were admitted into
13 the evidence it included the final supplemental answer, the
14 final answer of everybody on the question. I'm assuming that's
15 correct.

16 CHAIRMAN JABER: Staff is shaking their head. But
17 just so that the record is clear, the supplemental, the
18 responses to the discovery for the exhibits that we admitted
19 into the record include the supplemental responses.

20 MR. FUDGE: Yes, Commissioner.

21 MR. HATCH: Thank you.

22 MR. FUDGE: Before we go on, I'd like to get a
23 clarification on the ruling. Z-Tel only moved to strike the
24 motion for reconsideration in response to its portion of the
25 order, and I think you ruled that both motions for

1 reconsideration were untimely. Is that correct?

2 CHAIRMAN JABER: No. We granted Z-Tel's motion to
3 strike. That is all we did. So is there something else we
4 need to do?

5 MR. FUDGE: Yes. There was a companion motion for
6 reconsideration of the same order filed the same day, and Staff
7 believes the same rule would apply, that that motion is also
8 untimely.

9 CHAIRMAN JABER: By Verizon?

10 MR. FUDGE: Yes, Commissioner.

11 CHAIRMAN JABER: And so what do you need from us? On
12 our own motion you need, we need to make a ruling that --

13 MR. FUDGE: That motion --

14 CHAIRMAN JABER: Motion for reconsideration was
15 untimely.

16 MR. FUDGE: Consideration of that order was untimely.

17 COMMISSIONER PALECKI: I would move that the motion
18 for reconsideration, the second motion, which was not the
19 motion stricken, was also untimely filed and would move that
20 Staff's recommendation be approved.

21 COMMISSIONER BRADLEY: Madam Chair, before we --

22 CHAIRMAN JABER: Go ahead, Commissioner Bradley.

23 COMMISSIONER BRADLEY: -- vote on that motion, also I
24 have the same concern about this motion as I had about the last
25 motion. I'm just concerned that we may not be hearing

1 testimony that's extremely relevant as it relates to this
2 particular case, and I think it's important that we err on the
3 side of having too much information rather than too little.
4 But I, I recognize that legal maneuvers, by all means, are very
5 much a part of this process, and I respect those time frames
6 and the fact that other parties have the prerogative to do what
7 they need to do in order to deal with the legality of the
8 situation. So I respect that.

9 But I would like to just let it be known that I do
10 have a concern about us not being able to hear all of the
11 testimony, and as a result we may be erring on the side of not
12 having enough information, but.

13 CHAIRMAN JABER: Okay. There's been a motion to find
14 the rest of the motion for reconsideration filed by Verizon as
15 untimely. Is there a second?

16 COMMISSIONER DEASON: Second.

17 CHAIRMAN JABER: Motion and a second. All those in
18 favor, say aye.

19 (Simultaneous affirmative vote.)

20 CHAIRMAN JABER: Okay. That is a unanimous vote.

21 Staff, it's my understanding we've resolved now all
22 of the reconsideration requests filed by Verizon.

23 MR. FUDGE: Yes, Commissioner.

24 CHAIRMAN JABER: Okay.

25 MR. FUDGE: We can now move on to the stipulation of

1 testimony for the Verizon portion.

2 CHAIRMAN JABER: Okay. Let me catch up with you.
3 Hang you. Will that start with Mr. Sovereign?

4 MR. FUDGE: Yes, Chairman.

5 CHAIRMAN JABER: Okay. Go ahead. Ms. Caswell?

6 MS. CASWELL: Yes. And before we get into the
7 specific witnesses, I'd like to point out that in the
8 prehearing order at Page 80 where it talks about stipulations
9 and proposed stipulation of witnesses, the Sprint portion of
10 the docket, it's made clear that the witnesses' testimony will
11 be stipulated along with discovery responses, prefiled
12 testimony, prefiled exhibits, deposition transcripts, including
13 any late-filed exhibits. But then the Verizon portion of the
14 docket, the order notes that the parties have agreed to
15 stipulate the prefiled testimony in.

16 I would just like the record to reflect that the
17 arrangement was supposed to be the same both for Sprint and
18 Verizon, and I think Staff understands that. I think there's a
19 common understanding among the parties.

20 CHAIRMAN JABER: Okay. Great. And when we
21 introduced the Staff exhibits, we did also include some of
22 those --

23 MS. CASWELL: Included probably most of them.

24 CHAIRMAN JABER: Excellent. And along the way if
25 there are some that are not included, you'll point those out to

1 me.

2 MS. CASWELL: Yes, ma'am. Thank you.

3 CHAIRMAN JABER: Okay. Great.

4 MS. CASWELL: Our first witness is Allen Sovereign,
5 who had direct testimony of 25 pages. I would ask that that
6 testimony be inserted into the record as though read.

7 CHAIRMAN JABER: The prefiled direct testimony of
8 Allen E. Sovereign shall be inserted into the record as though
9 read.

10 MS. CASWELL: Mr. Sovereign had two exhibits labeled
11 AES-1 and AES-2. Those were attached to his direct testimony.
12 May I have those marked for identification purposes and moved
13 into the record at this time, please?

14 CHAIRMAN JABER: AES-1 and AES-2 are identified as
15 Composite Exhibit 39. And Composite Exhibit 39 is admitted
16 into the record.

17 (Composite Exhibit 39 marked for identification and
18 admitted into the record.)

19 MS. CASWELL: Mr. Sovereign also had surrebuttal
20 testimony consisting of six pages. I would ask that that be
21 moved into the record as though read.

22 CHAIRMAN JABER: The prefiled surrebuttal testimony
23 of Allen E. Sovereign shall be inserted into the record as
24 though read.

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DIRECT TESTIMONY OF ALLEN E. SOVEREIGN

I. INTRODUCTION

Q. PLEASE STATE YOUR NAME, ADDRESS AND PRESENT POSITION.

A. My name is Allen E. Sovereign. My business address is 600 Hidden Ridge, Irving, Texas 75038. Verizon Services Corporation employs me as Group Manager-Capital Recovery.

Q. PLEASE BRIEFLY DESCRIBE YOUR EDUCATIONAL BACKGROUND.

A. I received a Bachelor of Science Degree in Electrical Engineering from Michigan Technological University, Houghton, Michigan, in 1971. I received a Master of Science Degree in Business Administration from Indiana University, Bloomington, Indiana, in 1980. I have attended courses in depreciation and life analysis provided by Depreciation Programs, Inc., of Kalamazoo, Michigan. I have also attended and instructed basic and advanced GTE courses in depreciation life analysis. I am a Senior Member of the Society of Depreciation Professionals.

Q. PLEASE BRIEFLY DESCRIBE YOUR WORK EXPERIENCE WITH VERIZON.

A. I have worked for Verizon, and the former GTE Companies, for 27 years, with 20 of those years in the depreciation study area. I have held various positions in Engineering and Construction, Capital Budgeting, Marketing, and Product Development. I was named to my current position in

1 February 1994.

2

3 **Q. WHAT ARE YOUR RESPONSIBILITIES IN YOUR CURRENT**
4 **POSITION?**

5 A. I am responsible for the preparation, filing and resolution of capital
6 recovery studies and the determination of economic lives for Verizon
7 Service Corporation, Inc.

8

9 **Q. HAVE YOU PREVIOUSLY TESTIFIED IN FLORIDA?**

10 A. Yes.

11

12 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE ANY OTHER**
13 **REGULATORY BODIES?**

14 A. Yes, I have also testified before state utility commissions in Arkansas,
15 California, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Maryland,
16 Massachusetts, Michigan, Nebraska, Nevada, New Mexico, Ohio,
17 Pennsylvania, South Carolina, Texas, Virginia, Washington, and
18 Washington DC. I have also testified before the Federal Communications
19 Commission (FCC).

20

21 **Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?**

22 A. The purpose of this testimony is to respond to Issue 7b in this
23 proceeding, regarding the appropriate depreciation lives and future net
24 salvages to be used in the unbundled network element ("UNE") cost
25 studies Verizon Florida Inc. ("Verizon" or "Company") has submitted in

1 this proceeding.

2

3 **Q. WHAT DEPRECIATION INPUTS DID VERIZON USE IN ITS COST**
4 **STUDIES?**

5 A. Verizon used the forward-looking economic lives and future net salvages
6 recommended in this testimony. These are the same depreciation inputs
7 that Verizon uses for financial reporting to its stockholders. These
8 depreciation inputs are developed in accordance with Generally Accepted
9 Accounting Principles (GAAP). A complete list of Verizon's proposed
10 depreciation lives and future net salvage percentages is attached as
11 Exhibit AES-1.

12

13 **Q. PLEASE SUMMARIZE YOUR DIRECT TESTIMONY.**

14 A. The Florida Public Service Commission ("FPSC") should approve the
15 economic depreciation inputs Verizon used in its cost studies. Like the
16 cost study methodology prescribed for use in this proceeding, Verizon's
17 depreciation inputs are forward-looking. This forward-looking approach
18 produces a more accurate estimate of assets' economic lives than an
19 outdated, historical approach.

20

21 When all local exchange companies were monopoly providers, regulators
22 could defer capital recovery without affecting the ability of the regulated
23 company to recover its investments. With the advent of local competition,
24 regulators no longer have the luxury of postponing capital recovery in the
25 rate-setting process. The changing telecommunications environment

1 must be taken into consideration when determining the proper recovery
2 period of an asset. The methodology described in my testimony
3 considers these developments.

4

5 **II. ECONOMIC LIVES MUST BE USED IN FORWARD-LOOKING COST**
6 **STUDIES**

7

8 **Q. PLEASE DEFINE THE TERM “ECONOMIC LIFE” AND HOW IT**
9 **RELATES TO VERIZON'S COST STUDIES.**

10 A. Economic life can be defined as the period of time over which an asset is
11 used to provide economic value. Verizon's proposed depreciation
12 parameters consider the decline in an asset's value from all causes,
13 including competition and technological change. They reflect the
14 principle that depreciation parameters should be consistent with forward-
15 looking economic assumptions and based on competitive market asset
16 lives.

17

18 **Q. WHAT ARE “COMMISSION-PRESCRIBED DEPRECIATION LIVES”?**

19 A. These are the lives set by regulatory commissions for regulatory
20 accounting purposes. As I explain below, the FPSC no longer prescribes
21 depreciation lives for Verizon or other price-cap regulated companies.

22

23 **Q. IS AN ASSET'S ECONOMIC LIFE EQUAL TO THE DEPRECIATION**
24 **LIFE OF THAT ASSET AS PRESCRIBED BY STATE COMMISSIONS**
25 **OR THE FCC?**

1 A. Economic lives are generally shorter than prescribed asset lives.

2

3 **Q. WHY ARE ECONOMIC LIVES SHORTER THAN PRESCRIBED LIVES?**

4 A. Historically, regulatory commissions prescribed asset lives under the
5 assumption that there would be little or no competition and that
6 technological innovation would continue at its traditional pace. The
7 Telecommunications Act of 1996 ("Act") is intended to spur a new
8 competitive environment that invalidates that basic assumption.

9

10 As previously discussed, the economic life of an asset is the period of
11 time over which that asset is used to provide economic value. Both
12 increased competition and technological change shorten the period over
13 which an asset will provide economic value. In a world where Verizon
14 was the sole provider, depreciation rates were based upon artificially long
15 asset lives. By basing depreciation rates on long asset lives, the
16 depreciation rates were lower, and the period of time over which the
17 asset was depreciated was longer. Longer depreciation lives helped
18 state commissions to keep consumer prices artificially low. Today's
19 market environment reduces the length of time over which Verizon can
20 recover its investment in an asset and renders unsustainable the use of
21 artificially long asset lives in calculating depreciation rates.

22

23 **Q. WHEN ESTIMATING ECONOMIC LIVES, IS IT POSSIBLE TO USE**
24 **TRADITIONAL LIFE ESTIMATION TECHNIQUES?**

25 A. No. Traditional life estimation techniques are used to predict an asset's

1 *physical* life, but not its *economic* life. The physical life of an asset ends
2 upon that asset's retirement. Economic lives, however, can be affected
3 when no retirements are evident. For example, assume Verizon has a
4 1,200 pair cable that has been used to provide service to 1,000
5 customers in the pre-1996 single-provider environment. Next, assume
6 that in the post-1996 industry, only 500 pairs of the 1,200 pair cable are
7 being used (*i.e.*, providing service to customers and economic value to
8 Verizon) as a result of 500 customers leaving for competitors' networks.
9 Retirement-based analysis (*i.e.*, the traditional physical life estimation
10 technique) assumes that all plant in service has economic life. However,
11 under this scenario, only 50% of the originally utilized investment actually
12 has economic life. The economic life of the asset is severely affected by
13 competition, but there are no associated retirements of the asset.

14

15 **Q. HAS THE FLORIDA PUBLIC SERVICE COMMISSION FOLLOWED**
16 **THE TRADITIONAL METHOD FOR SETTING DEPRECIATION LIVES?**

17 **A.** Historically, the FPSC followed the traditional method for setting
18 depreciation rates. However, since January 1996, Verizon has been
19 permitted to set depreciation rates that reflect competitive and
20 technological advancements in the marketplace. Verizon uses the same
21 depreciation inputs for FPSC regulatory purposes that it uses for financial
22 reporting purposes, and those are the same inputs I recommend here.

23

24 **Q. WHAT DID THE FPSC RECOMMEND THE LAST TIME IT**
25 **PRESCRIBED DEPRECIATION INPUTS?**

1 A. As previously stated, the FPSC no longer prescribes depreciation inputs
 2 for Verizon for regulatory reporting purposes. The last time it did so was
 3 in Docket 920284-TL, in 1992. The Commission did, however,
 4 recommend depreciation inputs in its 1998 proceeding to determine the
 5 cost of basic local service for purposes of establishing a universal service
 6 fund (USF) mechanism (Docket 980696-TP). The chart below compares
 7 the FPSC-ordered depreciation lives in Docket 980696-TP with the
 8 depreciation lives Verizon uses in its cost studies for the major
 9 technology-sensitive accounts. A complete comparison of all accounts is
 10 attached as Exhibit AES-2.

11
 12 **A Comparison of FPSC-Ordered and Verizon's Proposed**
 13 **Depreciation Lives**

	FPSC	Verizon
	<u>Ordered</u>	<u>Proposed</u>
17 Digital Switching Equipment	13	10
18 Circuit Equipment	8	9
19 Copper Cable		
20 Aerial	18	15
21 Underground	23	15
22 Buried	18	15
23 Fiber Cable		
24 Aerial	20	20
25 Underground	20	20

1			
2		FPSC BS	Verizon
3		<u>Approved</u>	<u>Proposed</u>
4			
5	Digital Switching Equipment	13	10
6	Digital Circuit Equipment	9	9
7	Copper Cable		
8	Aerial	18	15
9	Underground	23	15
10	Buried	18	15
11	Fiber Cable		
12	Aerial	20	20
13	Underground	20	20
14	Buried	20	20

15

16 As the chart shows, the depreciation lives the FPSC approved for

17 BellSouth’s fiber accounts and those ordered for the large local exchange

18 companies in the USF docket are the same. Verizon recommends the

19 same 20-year life for these fiber cable accounts in this proceeding, so

20 there should be no question about its reasonableness.

21

22 There are differences between Verizon’s recommendations and the

23 lives approved for BellSouth in certain other areas—principally, the

24 Digital Switching and Copper Cable accounts. Verizon’s

25 recommendations for these accounts more accurately reflect the

1 competitive and technological conditions of the highly competitive
2 Tampa Bay area in which Verizon operates, as discussed further in
3 this testimony.

4

5 **III. COMPETITION AND TECHNOLOGICAL INNOVATION REQUIRE THE**
6 **USE OF ECONOMIC LIVES**

7

8 **Q. WHAT FACTORS SHOULD THE COMMISSION CONSIDER IN**
9 **APPROVING DEPRECIATION INPUTS FOR THE COST MODEL?**

10 A. The two most important factors that must be considered in establishing
11 the economic value of Verizon's assets are: (1) technological innovation
12 and (2) impact of competition.

13

14 **Q. WHAT TECHNOLOGICAL INNOVATIONS WERE CONSIDERED IN**
15 **ESTABLISHING VERIZON'S ECONOMIC LIVES?**

16 A. Prior to the passage of the 1996 Telecommunications Act, depreciation
17 analysis consisted primarily of mortality analysis with only slight
18 adjustments for technological change. Now, the rapid pace of
19 advancement in technological innovations must be considered in
20 establishing the depreciation inputs for Verizon's assets. For example,
21 data traffic is outpacing voice traffic. Packet Switching is much more
22 efficient in carrying data, as further advancements in voice over packet
23 occur, the network will evolve over time from a circuit switched to a
24 packet network. As another example, even with maximum use of DSL,
25 as customer bandwidth demand increases, fiber will need to continually

1 be moved closer and closer to the consumer, displacing copper.

2

3 **Q. WHAT KINDS OF COMPETITIVE DEVELOPMENTS WERE**
4 **CONSIDERED IN ESTABLISHING VERIZON'S ECONOMIC LIVES?**

5 A. Verizon witness Dr. James Vander Weide discusses the competitive risk
6 and Florida-specific competition in his Direct Testimony. Florida is a
7 particularly attractive market for entry by alternative competitive local
8 exchange carriers. Some 463 CLECs are certificated to offer local
9 exchange service, and CLECs have access to all of Verizon Florida's
10 lines. CLECs own and operate at least 36 switches in Verizon's service
11 area. Facilities-based competitors to Verizon include, among others, 2nd
12 Century, AT&T, Intermedia, ITC Deltacom, KMC, MCI WorldCom, Sprint,
13 Teligent, and Time Warner.

14

15 In addition, the FPSC's Division of Policy Analysis and Intergovernmental
16 Liaison recently observed that the local broadband services markets are
17 increasingly competitive. ILECs are, and will be, battling on a number of
18 fronts for control of the marketplace. Many consumers now have a
19 number of choices for local telephone and broadband services from a
20 variety of service providers and technologies. Cable, wireless, satellite,
21 competitive local exchange companies are fiercely competing with the
22 ILECs for subscribers in one or more arenas. Because of this
23 competition, the number of access lines in service has declined for a
24 number of ILECs. (Understanding the Local Exchange and Broadband
25 Markets in Florida, Telecommunications Competition and its

1 Developments, Prepared by The Division of Policy Analysis and
2 Intergovernmental Liaison, October 2001 (Broadband Study), at 26). The
3 report also noted that the telecommunications industry is undergoing
4 dramatic structural and technological changes: “The global phone
5 system is on the verge of its biggest technology shift since Alexander
6 Graham Bell’s invention eclipsed the telegraph” (quoting a June 24, 2001,
7 *Florida Times Union* article). Data traffic has now surpassed voice traffic
8 and continues to grow. It is possible, with today’s technology, to deliver
9 integrated voice, data and video services over existing connections. This
10 opens up tremendous possibilities for new applications, revenue sources,
11 and network efficiencies for companies that successfully combine voice
12 and data technologies and networks to bring integrated services to
13 homes and businesses over a single broadband connection.
14 (Broadband Study at 25).

15
16 The FPSC’s December 2000 Report on Competition in
17 Telecommunications Markets in Florida likewise noted the competitive
18 strides ALECs have made and continue to make. The Commission’s own
19 statistics (based on ALECs’ self-reported data) demonstrate the
20 acceleration of competitive activity in Verizon’s territory, particularly in the
21 business market. This trend will only become more pronounced, as more
22 and more competitors enter the market.

23

24 **Q. SHOULD ONLY THE CURRENT LEVEL OF COMPETITION AND**
25 **TECHNOLOGY BE CONSIDERED IN DEVELOPING DEPRECIATION**

1 **INPUTS?**

2 A. No. The expected competitive impacts and anticipated advancements in
3 technology over the entire expected life of the assets should be
4 considered.

5

6 **IV. VERIZON PROPERLY WEIGHS ALL RELEVANT FACTORS IN**

7 **DETERMINING ECONOMIC LIVES.**

8

9 **Q. WHAT METHOD DOES VERIZON USE TO DETERMINE THE**
10 **ECONOMIC LIFE OF AN ASSET?**

11 A. When estimating economic lives, Verizon (a) evaluates the criteria that
12 are used to establish the retirement lives of assets as a guideline for
13 estimating economic lives, (b) considers industry benchmark
14 comparisons, and (c) considers the effect the evolving competitive market
15 will have on the economic lives of many of Verizon's assets.

16

17 **Q. WILL YOU PLEASE EXPLAIN THE USE OF THESE FACTORS IN**
18 **MORE DETAIL?**

19 A. Verizon first considers the National Association of Regulatory Utility
20 Commissioners' description of factors that cause property to be retired.
21 (Public Utility Depreciation Practices, National Association of Regulatory
22 Utility Commissioners (NARUC), 1996, at 15).

23 These include:

- 24 1. Physical Factors
- 25 a. Wear and tear

- 1 b. Decay or deterioration
- 2 c. Action of the elements and accidents
- 3 2. Functional Factors
- 4 a. Inadequacy
- 5 b. Obsolescence
- 6 c. Changes in art and technology
- 7 d. Changes in demand
- 8 e. Requirements of Public Authorities
- 9 f. Management discretion
- 10 3. Contingent Factors
- 11 a. Casualties or disasters
- 12 b. Extraordinary obsolescence

13

14 These same factors can be used to help estimate an asset's economic
15 life expectancy by allocating the appropriate weighting to each factor.
16 That is, Verizon uses the NARUC factors as a guideline for choosing
17 economic lives of certain assets, but only after allocating proper
18 weighting to those factors that reflect the significant roles competition and
19 technological change play in determining an asset's economic life.

20

21 Specifically, the "Functional Factors" (Part 2 of the NARUC factors) are
22 sensitive to competition and technological change and are given
23 substantially greater weight when Verizon considers the NARUC criteria
24 in establishing the economic lives of Verizon's assets. As I explained
25 above, the effects of competition and technological change on an asset's

1 economic life must be properly considered when determining competitive
2 market asset lives. It has long been recognized in the industry that
3 traditional methods for determining lives for accounts most affected by
4 technology and competition are inadequate. Most Commissions,
5 including this one, have thus seen it fit to make adjustments to the
6 physical life indications produced by historical mortality analysis.

7

8 **Q. WHAT OTHER GUIDES DO YOU USE IN ESTABLISHING ASSET**
9 **LIVES?**

10 A. To help quantify our professional judgment as to the appropriate lives for
11 telephone plant, Verizon also benchmarks against competitors, such as
12 AT&T, MCI Worldcom, and cable television providers, and considers
13 industry studies performed by Technology Futures Inc. ("TFI").

14

15 **Q. PLEASE EXPLAIN WHY BENCHMARKING IS USEFUL AND**
16 **APPROPRIATE.**

17 A. Benchmarking affords an excellent example of the reasonableness of
18 Verizon's recommended depreciation lives. As we transition to a
19 competitive environment, we should be treated the same as our
20 competitors with respect to setting depreciation rates. Competitors'
21 depreciation rates are not reviewed or approved by any regulatory body,
22 and are a good guide to reasonable practices in a competitive market.

23

24 **Q. WHAT DID YOU DETERMINE USING BENCHMARK COMPARISONS**
25 **WITH AT&T?**

1 A. Comparing the economic lives proposed by Verizon to the lives AT&T
2 uses affords an excellent example of how reasonable Verizon's
3 recommendations are. AT&T's 2000 annual report states that the useful
4 life of communications and network equipment ranges from 3 to 15 years.
5 The useful life of other equipment ranges from 3 to 7 years. The useful
6 life of buildings and improvements ranges from 10 to 40 years. Verizon's
7 recommended lives are not as short as AT&T's. In comparison, Verizon's
8 recommendation for network equipment ranges from 9 to 50 years. My
9 testimony also recommends 5 to 15 years for Other Equipment, and 35
10 years for buildings.

11

12 **Q. WHAT WAS DETERMINED BY THE COMPARISON WITH MCI**
13 **WORLDCOM?**

14 A. MCI WorldCom's 1996 annual report stated that the weighted average
15 depreciable life of the assets comprising the communications system in
16 service approximates 10 years. Furniture, fixtures and equipment are
17 depreciated over a weighted average life of 6 years. Buildings are
18 depreciated using lives of up to 35 years. In comparison, Verizon's
19 recommendation for equipment that comprises the communication
20 system ranges from 9 to 50 years. My testimony recommends 5 to 15
21 years for furniture, fixtures and equipment, and 35 years for buildings.

22

23 In 1998, MCI WorldCom again shortened the lives of its communications
24 facilities from approximately 10 years to 9 years, stating that the company
25 periodically reviews and adjusts the useful lives assigned to fixed assets

1 to ensure that depreciation charges provide appropriate recovery of
2 capital costs over the estimated physical and technological lives of the
3 assets. The weighted average of depreciable life of the assets
4 comprising the communications system in service approximates nine
5 years.

6

7 **Q. WHAT WAS DETERMINED BY THE COMPARISONS TO LIVES USED**
8 **BY THE CABLE TELEVISION (CATV) OPERATORS?**

9 A. Verizon's lives are not as short as the lives used by CATV operators. The
10 FCC adopted a flexible range of lives to be used by CATV operators
11 seeking to justify depreciation rates in cost of service filings. The useful
12 lives adopted by the FCC for distribution facilities were from 10 to 15
13 years. This range was developed from a statistical analysis of lives used
14 by CATV operators for their own facilities. The 15-year economic life for
15 copper cable and the 20-year life for fiber cable calculated selected by
16 Verizon are not as short as the lives within the FCC-allowed range for
17 CATV distribution facilities. Additionally, the lives proposed by Verizon
18 for support assets such as office furniture and equipment, vehicles, and
19 buildings are reasonable when compared to the FCC-allowed ranges for
20 CATV operators. The FCC CATV range for office furniture and
21 equipment is 9-11 years, which compares favorably to Verizon's proposal
22 of 10-15 years for these accounts. The FCC range for vehicles and
23 equipment is 3-7 years, which is shorter than Verizon's proposal of 8-12
24 years. The FCC range for buildings is 18-33 years, which is shorter than
25 Verizon's proposal of 35 years. (FCC MM Docket No. 93-215,

1 Implementation of Sections of the Cable Television Consumer Protection
2 and Competition Act of 1992: Rate Regulation and FCC CS Docket No.
3 94-28, Adoption of a Uniform Accounting System for Provision of
4 Regulated Cable Service, Second Report and Order, First Order on
5 Reconsideration, and Further Notice of Proposed Rulemaking, January
6 26, 1996).

7

8 **Q. HAVE ANY OTHER COMMISSIONS DETERMINED THAT**
9 **BENCHMARKING IS A VIABLE METHOD TO ASSESS THE**
10 **REASONABLENESS OF VERIZON'S PROPOSED DEPRECIATION**
11 **INPUTS?**

12 **A.** Yes. The Missouri Public Service Commission Staff agreed that
13 benchmarking is a viable method to determine the reasonableness of
14 Verizon's proposal, stating:

15 Staff believes that benchmarking GTE TELRIC rates against
16 those booked for financial purposes of likely competitors
17 and other companies using similar technologies is
18 appropriate and is the best method to determine if GTE's
19 TELRIC rates pass the muster of reasonableness.

20 (Case No. TO-97-63, Missouri Public Service Commission, Final
21 Arbitration Order, July 31, 1997 ("Missouri Order"), Attachment C at 77).

22

23 The Missouri Staff chose 19 of the largest IXC, CATV, cellular, CAP, and
24 PCS companies to benchmark against and found that the depreciation
25 rates used to calculate GTE TELRIC costs were at the bottom or second

1 from the bottom of the list and were significantly lower than several
2 companies in similar industries, concluding that “This is the most
3 significant factor to Staff’s belief that GTE’s proposed depreciation rates
4 are reasonable.” (Missouri Order, Attachment C at 79).

5

6 **Q. HAVE ANY ALECS PROVIDED INFORMATION IN THIS DOCKET**
7 **THAT CONFIRMS THE REASONABLENESS OF VERIZON’S**
8 **PROPOSED LIVES?**

9 A. Yes. A number of ALECs responded to BellSouth’s discovery requests in
10 its phase of this docket.

11

12 For example, Florida Digital Network confirmed that it owned or operated
13 switches and cable in Florida to provide telephone exchange services. It
14 stated that the life it uses for switches is 10 years, which is the same as
15 Verizon recommends; and 15 years for cable, which is the same as
16 Verizon’s recommended 15 years for copper cable and shorter than
17 Verizon’s recommended 20 years for fiber cable. It also listed lives for
18 support equipment which ranged from 5–10 years, which were generally
19 shorter or the same as Verizon’s recommendations of 5–15 years for
20 similar equipment. (BellSouth Hearing, Ex. 33.)

21

22 Intermedia Communications also responded to BellSouth interrogatories
23 (BellSouth Hearing, Ex. 35). Intermedia stated that it uses a 7-year life for
24 switches, which is the much shorter than Verizon’s recommendation of 10
25 years; and 20 years for fiber cable, which is the same as Verizon’s

1 recommended 20 years. It also listed lives for telecommunication
2 equipment and furniture and fixtures which ranged from 2–7 years, which
3 is shorter than Verizon’s recommendations of 5–15 years for similar
4 equipment.

5
6 In its responses (BellSouth Hearing, Ex. 36), Rhythms Links admitted that
7 that it owns or operates digital circuit equipment used to provide digital
8 subscriber line services in Florida. Rhythms uses a 5-year life for digital
9 circuit equipment, which is much shorter than Verizon’s recommendation
10 of 9 years. Its lives for equipment and furniture ranged from 3–7 years,
11 which are also shorter than Verizon’s recommendations of 5–15 years for
12 similar equipment. Even though Rhythms is in bankruptcy, its assets
13 have value (they have been acquired by WorldCom) and depreciation
14 rates for those assets still provide useful benchmarks.

15
16 Time Warner Telecom of Florida also owns or operates facilities to
17 provide telephone exchange services in Florida. It uses a 10-year life for
18 switches, which is the same as Verizon recommends; and 15 years for
19 fiber cable, which is shorter than Verizon’s proposed 20 years. For
20 vehicles and other equipment, Time Warner’s lives range from 3–10
21 years, which are generally shorter or the same as Verizon’s
22 recommendations of 5–15 years for similar equipment. (BellSouth
23 Hearing, Ex. 36.)

24
25 This information provides further evidence that Verizon’s

1 recommendations are reasonable and should be accepted in this
2 proceeding.

3

4 **Q. PLEASE EXPLAIN VERIZON'S USE OF THE INDUSTRY STUDIES**
5 **PERFORMED BY TECHNOLOGY FUTURES INC. (TFI).**

6 A. TFI forecasts the remaining lives for certain assets when technological
7 change is driving the shortening of asset lives. To quantify this
8 technological change, TFI uses a model to analyze remaining economic
9 lives using patterns of technological substitution observed in the
10 communications industry, as well as other industries. The industry studies
11 conducted by TFI forecast the combined effects that competition and
12 technological change will have on an asset's remaining useful life. The
13 studies generally project shorter lives than traditionally prescribed by
14 most Commissions. Verizon uses the TFI lives as a reasonableness
15 benchmark comparison with the lives used by other companies, both
16 regulated and non-regulated, with similar types of telecommunications
17 assets.

18

19 **Q. WHAT DO THE TFI STUDIES RECOMMEND VERIZON USE AS**
20 **ECONOMIC LIVES FOR ITS ASSETS?**

21 A. Verizon's recommendations here are in line with TFI's recommended
22 economic life ranges, as shown by the following chart. (*Transforming the*
23 *Local Exchange Network: Analyses and Forecasts of Technology*
24 *Change*, Larry K. Vanston, Ray L. Hodges, and Adrian J. Poitras, 2d Ed.
25 1997, Technology Futures, Inc., at 33).

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**A Comparison of The TFI Ranges with
Verizon's Proposed Economic Lives**

	<u>TFI</u>	<u>Verizon</u>
	<u>Ranges</u>	<u>Economic</u>
Digital Switching Equipment	9-12	10
Circuit Equipment	6-9	9
Copper Cable	14-20	15
Fiber Cable	20	20

TFI specifically addresses the appropriate lives to be used for outside plant cable, central office switching, and circuit equipment accounts, as these accounts report equipment that are most affected by changes in competition and technology.

**V. VERIZON'S ECONOMIC LIVES HAVE BEEN ENDORSED BY OTHER
STATE REGULATORY COMMISSIONS**

Q. HAS ANY OTHER REGULATORY BODY APPROVED THE ECONOMIC LIVES PRESENTED HERE?

A. Yes. In 1996, the California Public Utilities Commission ("CPUC") endorsed the use of the same economic lives presented here except that they approved a 14-year life for copper cable, one year less than

1 requested here. The CPUC concluded that the economic lives used by
2 GTE and Pacific Bell for external financial reporting were the appropriate
3 forward-looking lives for cost studies. The CPUC rejected the suggestion
4 made by AT&T and others that FCC-prescribed lives are forward-looking,
5 stating:

6
7 We agree with Pacific that the schedules formally adopted
8 in the represcription proceeding reflect the previous
9 paradigm of the regulated monopoly environment, and so
10 are difficult to justify in a cost study that looks forward to an
11 environment in which there is local exchange competition.
12 We also see little merit in the Coalition's original suggestion
13 that we use FCC schedules. These schedules also reflect
14 the previous paradigm; moreover, they are based on
15 different assumptions and applied in different ways than
16 our own. It also seems to be the case, however, that Pacific
17 is now using these schedules in financial reports it is
18 required to file, and thus for purposes of these cost studies,
19 the schedules also appear consistent with generally
20 accepted accounting principles. The schedules also
21 appear realistic for a firm having to operate in a competitive
22 environment, as Pacific will soon have to do. Accordingly,
23 we will approve their use in this proceeding.

24

25 (California Public Utilities Commission Decision No. D.96-08-

1 021, August 2, 1996, in Rule Making R.93-04-003, I.93-04-
2 002).

3

4 In 1997, the Missouri Public Service Commission, likewise, adopted the
5 same economic lives proposed in this case, stating:

6

7 Staff's goal has been to recommend depreciation rates
8 based on parameters that GTE is likely to experience for
9 financial purposes so as to fully recover its long run capital
10 costs in a timely fashion.

11

12 (Missouri Order, Attachment C at 76.)

13

14 In 1998, the Michigan Commission approved GTE's use of economic lives:

15

16 GTE proposes to reduce its asset lives in accordance with
17 their economic lives....The Staff's view is that GTE's
18 proposed asset lives are largely consistent with a forward-
19 looking approach and are reasonable....The Commission
20 finds that GTE's proposal related to depreciation is
21 appropriate for TSLRIC purposes....The Commission further
22 finds AT&T/MCI's proposal to be insufficiently forward
23 looking for purposes of a TSLRIC study.

24

25 (Michigan Docket No. U-11281, Feb. 25, 1998 Order,

1 Section d).

2

3

VI. CONCLUSION

4

5 **Q. PLEASE SUMMARIZE YOUR DIRECT TESTIMONY.**

6 A. Traditional historical methods of establishing depreciation lives are not
7 forward-looking. The economic lives used in Verizon’s cost studies are
8 properly based on a forward-looking approach. Verizon’s proposed rates
9 are reasonable in comparison to the financial reporting lives of
10 competitive telecommunications providers, including those in this docket,
11 and should be approved by this Commission for use in establishing
12 permanent UNE rates.

13

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

15 A. Yes.

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1 **SURREBUTTAL TESTIMONY OF ALLEN E. SOVEREIGN**

2

3 **Q. PLEASE STATE YOUR NAME, ADDRESS AND PRESENT POSITION.**

4 A. My name is Allen E. Sovereign. My business address is 600 Hidden Ridge,
5 Irving, Texas 75038. Verizon Services Corporation employs me as Group
6 Manager-Capital Recovery.

7

8 **Q. DID YOU PREVIOUSLY FILE TESTIMONY IN THIS DOCKET?**

9 A. Yes. I filed direct testimony in this docket on November 7, 2001.

10

11 **Q. WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?**

12 A. I will respond to the rebuttal testimonies of ALEC Coalition witnesses Ankum
13 and Fischer, with regard to their criticisms of the depreciation lives and future
14 net salvages Verizon Florida Inc. (Verizon) has used in its cost studies in this
15 proceeding.

16

17 **Q. WHAT DEPRECIATION INPUTS DO DR. ANKUM AND MR. FISCHER**
18 **RECOMMEND VERIZON USE IN ITS COST STUDIES?**

19 A. Dr. Ankum recommends using depreciation inputs either within FCC ranges
20 or those approved for BellSouth in its UNE ratesetting case (Ankum Rebuttal
21 Testimony (RT) at 109; Ankum Rebuttal Ex. AHA-12). Mr. Fischer merely
22 advises the Commission to adopt Dr. Ankum's depreciation recommendation
23 (Fischer RT at 4).

24

25 **Q. DO YOU AGREE WITH DR. ANKUM'S RECOMMENDATION?**

1 A. No. The FCC last prescribed depreciation lives and salvage values for
2 Verizon over six years ago, in 1995. These FCC values, approved before
3 the passage of the Telecommunications Act of 1996 and the widespread
4 opening of local exchange markets, are obviously outdated and do not reflect
5 today's environment. Indeed, as I discussed in my Direct Testimony, this
6 Commission in 1998 approved depreciation inputs for Verizon in the
7 universal service fund (USF) docket that were shorter than the FCC ranges
8 (Sovereign Direct Testimony (DT) at page 7 and Ex. AES-2). So this
9 Commission has already found that lives within FCC ranges are not
10 appropriate for Verizon's forward-looking cost study.

11

12 As the New York Public Service Commission observed recently in approving
13 Verizon's recommended depreciation inputs, "those shorter lives may well be
14 appropriate for a TELRIC study, in that they better reflect the treatment of
15 depreciation in the competitive market contemplated by TELRIC."
16 (Proceeding on Motion of the Commission to Examine New York Telephone
17 Company's Rates for Unbundled Network Elements, Order, Case 98-C-1357,
18 at 78 (Jan. 28, 2002).)

19

20 **Q. IS DR. ANKUM'S ALTERNATIVE RECOMMENDATION ACCEPTABLE?**

21 A. No. Dr. Ankum's alternative recommendation is that Verizon use the
22 depreciation inputs approved for BellSouth in this docket. This position is
23 based not on any analysis, but solely on the assumption that Verizon could
24 not face more risk than BellSouth (Ankum RT at 109).

25

1 There is no evidence to support this assumption. The depreciation lives
2 Verizon used in its cost studies are the true economic lives of its assets, and
3 are thus appropriate values to use in a forward-looking economic cost study.
4 In fact, as Verizon witness Tucek points out in his Surrebuttal Testimony,
5 Verizon's depreciation proposal does not use the significantly shorter lives
6 that would be required by the instantaneous switch replacement assumption
7 Dr. Ankum makes. (Ankum RT at 84).

8
9 If the Commission wishes to consider in this case the approved depreciation
10 inputs for BellSouth, they should only be considered a **starting point** for
11 Verizon's inputs. From that baseline, the Commission should then factor in
12 the particular risk Verizon faces in its serving territory, and then adjust the
13 BellSouth lives downward. This process should yield the depreciation inputs
14 Verizon has recommended for setting Verizon's own UNE rates.

15
16 **Q. DO YOU AGREE WITH DR. ANKUM'S ASSESSMENT OF RISK FACED**
17 **BY VERIZON ?**

18 A. No. Dr. Ankum believes that Verizon could not face more risk than BellSouth
19 since BellSouth serves the majority of access lines in the state (Ankum RT at
20 109). That fact is precisely why Verizon does face more risk than BellSouth.
21 Verizon's serving territory is centered in the highly concentrated, highly
22 competitive Tampa Bay area. Verizon is thus more vulnerable to competitive
23 risk than BellSouth, which operates over a wider and more varied base, both
24 urban and rural, throughout the state. As Dr. Vander Weide and I discussed
25 in our Direct Testimonies (Vander Weide DT at 37-44; Sovereign DT at 11),

1 Verizon's operating area is very competitive. In fact, Time Warner
2 Communications plans to launch its first widespread offering of local and
3 long distance telephone service in Verizon's Tampa Bay serving area. Time
4 Warner already has 900,000 cable customers in the Bay area. That number
5 is about half of Verizon's residential lines, so the competitive threat Time
6 Warner raises to Verizon is obviously very serious. ("Time Warner Takes
7 Phone Fight to Verizon," St. Petersburg Times, Dec. 22, 2001,
8 <http://pqasb.pqarchiver.com/sptimes/main/doc/000000096521722.html>).

9
10 Verizon also faces risk of local wireline entry into its territory by BellSouth,
11 the largest ILEC in Florida. BellSouth already provides local wireless
12 telephone service in Verizon's territory, and it could readily leverage this
13 platform into the wireline market.

14
15 As to wireless competition itself, as I discussed in my Direct Testimony, it is
16 one of the plainest and most serious threats to Verizon's wireline service. A
17 March 13, 2002 Wall Street Journal article reported that 46% of the U.S.
18 population had wireless phones by the end of 2001. ("Domino Effect:
19 Telecom's Troubles Spread From Upstarts To Sector's Leaders," The Wall
20 Street Journal, p. A8, col. 4, Mar. 13, 2002). Increasingly, wireless flat-rate
21 pricing plans, which routinely include long-distance minutes, have made
22 cellular service an attractive option for the average consumer. In fact, some
23 consumers rely on their wireless phones to the degree that they are
24 disconnecting their wireline service. The above-mentioned Wall Street
25 Journal article confirms consumers' greater reliance on their wireless

1 phones; the number of customers using their wireless phones at home
2 increased over 40% from 1999 to 2000, and is even higher now. This trend
3 can only be expected to increase.

4
5 Verizon's access line statistics are tangible proof of Verizon's increasing
6 competitive risk. In 2001, total access lines served by Verizon decreased for
7 the first time in its operating history.

8
9 In short, there is no basis to accept Dr. Ankum's assumption that Verizon
10 faces less risk than BellSouth. Verizon's proposed depreciation inputs
11 should be approved because they properly reflect the competitive conditions
12 Verizon faces.

13
14 **Q. HAVE THERE ALSO BEEN RECENT ADVANCEMENTS IN SWITCHING**
15 **TECHNOLOGY THAT FURTHER VALIDATE VERIZON'S DEPRECIATION**
16 **INPUTS?**

17 **A.** Yes. Nortel and Sprint recently announced that Sprint plans to replace its
18 circuit switches with packet switches over the next 8 years ("Sprint Awards
19 US \$1.1 Billion Deal to Nortel Networks for Next Generation Network," Nortel
20 News Release, Nov. 5, 2001, <http://www.nortelnetworks.com/corporate/news/newsreleases/2001d/>). The Nortel website also states that cable
21 television companies are implementing voice over Internet protocol (VoIP)
22 telephony ("Motorola, Nortel Networks Team to Deliver VoIP Solutions for
23 Broadband-Cable Market," Nortel News Release, Feb. 4, 2002,
24 <http://www.nortelnetworks.com/corporate/news/newsreleases/2002a/>). As I
25

1 just noted, Time Warner will offer local and long-distance phone service in
2 the Tampa Bay area using VoIP technology. The earlier-mentioned St.
3 Petersburg Times article quotes a Time Warner spokesman stating that the
4 IP technology it will use in Florida has evolved to such high-quality reception
5 "that you could hear a pin drop."
6

7 These developments will further pressure the industry to evolve the circuit
8 switched network to a packet switched one—and, in turn, cause increased
9 downward pressure on Verizon's recommended 10-year depreciation life for
10 the digital switching account.
11

12 **Q. PLEASE SUMMARIZE YOUR SURREBUTTAL TESTIMONY.**

13 A. The Commission should approve Verizon's depreciation recommendations in
14 this docket. Verizon's inputs, unlike those recommended by Dr. Ankum and
15 Mr. Fischer, are properly forward-looking and appropriate for use in a
16 forward-looking cost study to set UNE rates. The 1995 FCC lives are
17 outdated, as this Commission recognized in approving shorter lives for
18 Verizon in the 1998 universal service docket. The recently approved
19 depreciation inputs for BellSouth should, if anything, be used only as a
20 starting point determining Verizon's inputs, with consideration of the
21 additional risks Verizon faces.
22

23 **Q. DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?**

24 A. Yes.

25 (Transcript follows in sequence in Volume 3.)

1 STATE OF FLORIDA)

2 : CERTIFICATE OF REPORTER

3 COUNTY OF LEON)

4

5 I, LINDA BOLES, RPR, Official Commission
6 Reporter, do hereby certify that the foregoing proceeding was
heard at the time and place herein stated.


7 IT IS FURTHER CERTIFIED that I stenographically
8 reported the said proceedings; that the same has been
transcribed under my direct supervision; and that this
9 transcript constitutes a true transcription of my notes of said
proceedings.

10 I FURTHER CERTIFY that I am not a relative, employee,
11 attorney or counsel of any of the parties, nor am I a relative
or employee of any of the parties' attorneys or counsel
12 connected with the action, nor am I financially interested in
the action.

13 DATED THIS 2ND DAY OF MAY, 2002.

14

15


LINDA BOLES, RPR
FPSC Official Commissioner Reporter
(850) 413-6734

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