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February 4, 2003

Ms. Blanca Bayo', Director
Division of the Commission Clerk and
Administrative Services
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

RE: Docket Nos. 981834 & 990321-TP

Dear Ms. Bayo':

Enclosed for filing are the original and 15 copies of the following:

- 1. Direct Testimony of Jimmy R. Davis 01148-03
- 2. Direct Testimony of Edward Fox, including Exhibits EBF-1 & EBF-2 01149-03
- 3. Sprint's Request for Confidential Classification 01150-03

In addition, pursuant to staff's direction, Sprint is filing the following:

- 4. Two redacted hard copies of Exhibit JRD-2 and one CD-ROM containing the redacted Exhibit JRD-2. 01151-03

Hard copies and CD-ROMs containing the nonredacted version of Exhibit JRD-2 (Collocation Cost Study) are being transmitted separately under seal this same day. Copies are being served on the parties in this docket, pursuant to the attached Certificate of Service. Parties that have executed a nondisclosure agreement will receive nonredacted versions of Exhibit JRD-2. All other parties will receive redacted versions.

Please acknowledge receipt of this filing by stamping and initialing a copy of this letter and returning same to the courier. If you have any questions, please do not hesitate to call me at 850/599-1560.

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Sincerely,

Susan S. Masterton

Susan S. Masterton

Enclosures

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FPSC-BUREAU OF RECORDS

**CERTIFICATE OF SERVICE
DOCKET NO. 981834-TP & 990321-TP**

I HEREBY CERTIFY that a true and correct copy of the Redacted or Non-redacted+ Exhibit JRD-2 (Collocation Cost Study) was served by U.S. Mail or Hand Delivery* this 4th day of February, 2003 to the following:

Wayne Knight, Esq.* +
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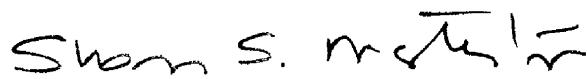
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Susan S. Masterton

+ Non-redacted copies will be provided up execution of the appropriate non-disclosure agreement.

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **DIRECT TESTIMONY OF**

3 **JIMMY R. DAVIS**

4
5 **Q. Please state your name, place of employment, and business address.**

6
7 A. My name is Jimmy R. Davis. I am employed by Sprint/United Management
8 Company as a Senior Manager – Network Costing at 6450 Sprint Parkway,
9 Overland Park, Kansas 66251. I am testifying on behalf of Sprint-Florida,
10 Incorporated and Sprint Communications Company Limited Partnership
11 (hereafter collectively referred to as “Sprint” or the “Company”).

12
13 **Q. Are you the same Jimmy Davis who previously filed direct testimony and**
14 **rebuttal testimony in this case?**

15
16 A. Yes.

17
18 **Q. What is the purpose of this direct testimony?**

19
20 A. I will address Issues 9A and 9B as identified on Attachment A of this
21 Commission’s Procedural Order dated November 4, 2002.

22
23 **ISSUE 9A. FOR WHICH COLLOCATION ELEMENTS SHOULD RATES BE**
24 **SET FOR EACH ILEC?**

DOCUMENT NUMBER - DATE

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1 **Q. For which collocation elements has Sprint filed rates in this proceeding?**

2

3 **A.** Sprint's list of elements and their proposed rates appear on page 5 of Exhibit
4 JRD-2 filed with this testimony. This list of rate elements is based on
5 examinations of actual collocation arrangements in Sprint central office buildings
6 coupled with FCC and Florida PSC requirements.

7

8 **Q. Did Sprint make any revisions to its list of collocation elements since the**
9 **previous list that was published as page 33 of the November 4, 2002**
10 **Procedural Order?**

11

12 **A.** Yes. Sprint has made five changes to the November 4, 2002 element list.

13

14 First, the title of the Application Fee (line 1, page 33 of Procedural Order) has
15 been changed to "New Collocation – Application Fee". This was done to clarify
16 that this fee only applies to new collocations.

17

18 Second, engineering & project management fees for new collocation as well as
19 minor and major augments (lines 2, 5 & 6, page 33 of Procedural Order) have
20 been reworked. Originally, these fees were to include engineering time for all
21 collocation elements (power, transmission, land and building, and outside plant)
22 on a weighted basis. Sprint decided to move engineering time to each specific
23 collocation element it is associated with to provide a better matching of costs
24 incurred to costs recovered. Power engineering is now included in "Power Costs

1 – Connection to Power Plant 100 Amps” and “Power Costs – Connection to
2 Power Plant 200 Amps” (lines 17 & 18, page 5, Exhibit JRD-2 attached). Land &
3 buildings engineering is now included in a new element, “Security Cage
4 Construction – Engineering” (line 11, page 5, Exhibit JRD-2 attached). Outside
5 plant engineering is now included in “Internal Cable – 48 Fiber” and “Internal
6 Cable – 100-Pr Copper Stub Cable” (lines 31 & 32, page 5, Exhibit JRD-2
7 attached). Transmission engineering remains as part of the more clearly defined
8 “New Collocation – Administrative, Project Management, and Transmission
9 Engineering Fee” because a transmission engineer is always involved in a new
10 collocation. Transmission engineers are needed for cross-connect cabling and DC
11 power cable feeds (60 amps or less). Augmentations to existing collocations do
12 not always involve adding these elements; therefore, Sprint is proposing separate
13 rate elements for transmission engineering for both minor and major augments.
14 These two rate elements, “Minor Augment – Transmission Engineering Fee” and
15 “Major Augment – Transmission Engineering Fee” (lines 6 & 9, page 5, Exhibit
16 JRD-2 attached), are only applied when cross connects and/or DC power cables
17 (60 amps or less) are added to existing collocations.

18
19 The third change in Sprint’s November 4, 2002 element list is that pricing for
20 “Power Costs – Connection to Power Plant 100 Amps” and “Power Costs –
21 Connection to Power Plant 200 Amps” now include incremental charges for linear
22 footage in excess of 110 feet. While DC power cable feeds of 60 amps or less are
23 terminated onto a battery distribution fuse bay (BDFB), DC power cabling feeds
24 larger than 60 amps are terminated directly onto the main power board located

1 with or in very close proximity to the remaining DC power plant equipment. Due
2 to distances between DC power equipment and collocation space, DC power feeds
3 greater than 60 amps can be quite lengthy. The longer the feed, the larger (in
4 diameter) the cable has to be to carry the load. In addition, extra installation
5 crewmembers are needed as cables get larger and longer. This approach of
6 costing longer DC power feeds on a per foot basis most fairly charges ALECs and
7 compensates ILECs for those instances where additional DC power cable costs
8 are incurred to satisfy the ALEC order.

9
10 The fourth change in Sprint's November 4, 2002 element list is that "Dedicated
11 AC Circuit Connection" and "Dedicated AC Circuit Consumption" (lines 17 &
12 18, page 33 of Procedural Order), have been deleted from the element list. These
13 elements are unnecessary for the reasons discussed in Sprint Witness Mr. Ed
14 Fox's Direct Testimony under Issue 7, telephone equipment used in collocation
15 "requires DC power" (Fox Direct, page 18, line 4); therefore, major sources of
16 AC power are unnecessary.

17
18 Finally, Internal Cable – 24 Fiber (line 29, page 33 of Procedural Order) has been
19 changed to Internal Cable – 48 Fiber (line 31, page 5, Exhibit JRD-2 attached).
20 Further analysis after November 4, 2002 reveals that ALECs most often requested
21 48 fibers.

22
23 **Q. What are the major categories of collocation elements presented in Exhibit**
24 **JRD-2?**

1 A. The ten major categories presented in Exhibit JRD-2 are: Administrative,
2 Engineering and Project Administration Fees; Security Cage Construction; Floor
3 Space; DC Power; AC Power; Cross Connect Facilities; Security Card; additional
4 Labor Charges; Adjacent On-Site Collocation (shown as ICB); and Remote
5 Terminal Collocation (shown as ICB). Detailed narratives of individual elements
6 under these main categories are included in Exhibit JRD-2.

7

8 **Q. Do Sprint's rates apply to both physical and virtual collocation?**

9

10 A. Yes. Virtual and physical collocation are the same except that under virtual
11 collocation, the ILEC is involved with maintaining the ALEC's equipment. The
12 cost of maintaining the ALEC's equipment will be recovered through Sprint's
13 additional labor charges on a per occurrence basis.

14

15 **Q. Please briefly explain each major rate category.**

16

17 A. Administrative, Engineering and Project Management Fees include
18 administrative, project management and engineering evaluation charges for
19 processing applications for new collocation, augments, and space reports
20 (pursuant to 47CFR §51.321 (h)). These charges are assessed up front because
21 the associated costs are immediately incurred by the ILEC. This category also
22 includes administrative, engineering and project management NRC's for work
23 done after the ALEC makes a firm order commitment and during the build out
24 phase.

1 Security Cage Construction charges include land & buildings engineering charges
2 and per linear foot construction charges for installing an enclosure for use in
3 caged collocation.

4
5 Floor Space charges (per square foot) cover the ALEC's use of the equipment
6 area requested in its application for new collocation. Floor space charges apply to
7 caged, cageless and virtual collocation. Floor space investment includes the costs
8 of erecting a telephone central office building. Also included in floor space are
9 charges for supporting infrastructure such as HVAC plant, common areas in the
10 central office used by both Sprint and the ALEC, and extending a ground bar to
11 the ALEC area of the central office.

12
13 DC Power includes charges for use of the DC power plant along with the
14 commercial AC power that is converted to DC power. The DC power category
15 also includes separate charges for the ALEC's DC power cable connections from
16 the main power board or BDFB to its collocation space. The rate structure for DC
17 power cable connections of 100 and 200-amps includes a base charge for
18 connections up to a 110 linear feet and a per foot additive cable runs in excess of
19 110 feet.

20
21 AC Power charges include elements for installing electric outlets and overhead
22 lights at the request of the ALEC.

23
24

1 Cross-Connect Facilities include cross-connects between the ALEC's equipment
2 and Sprint's equipment for the ALEC's purposes of providing local telephone
3 services to end-users. An ALEC-ALEC cross-connect option is offered for each
4 type of electronic cross-connect and optical cross-connect. Cross-connect options
5 are provided for 100-pair DS0, 1 DS1, 1 DS3 and 4-fiber optical connections.
6 Also included in this category are internal cable space elements for both fiber and
7 copper entrance cables. Internal cable space includes a portion of manhole,
8 conduit, vault and riser infrastructure. Entrance cable collocation elements are
9 also offered for both 48-fiber and 100-pair copper. These elements are offered to
10 collocators who desire to lease a cable from Sprint.

11
12 The Security Card element covers the cost of providing an ID card / access key to
13 ALEC technicians for purposes of entering Sprint central offices.

14
15 Additional Labor charges provide for situations in which stand-alone labor
16 charges apply. As previously mentioned, one such situation is maintenance on an
17 ALEC's equipment under a virtual collocation arrangement. Labor charges are
18 provided in ¼ hour increments for regular, overtime and premium rates. Labor
19 charges are provided for central office technicians, central office engineers,
20 outside plant technicians and outside plant engineers.

21
22 Sprint's rate list also has categories for Adjacent On-Site Collocation and Remote
23 Terminal Collocation. To date, Sprint has not had any orders for either adjacent
24 collocation or for collocation at a remote terminal housed in a weatherproof

1 cabinet. These collocation arrangements are not common nor are they standard
2 and therefore do not lend themselves to developing accurate generic rates. To that
3 end, Sprint will provide rates for adjacent and remote terminal collocation on an
4 individual case basis.

5
6 **ISSUE 9B. FOR THOSE COLLOCATION ELEMENTS FOR WHICH RATES**
7 **SHOULD BE SET, WHAT ARE THE PROPER RATES AND THE**
8 **APPROPRIATE APPLICATION OF THOSE RATES?**

9
10 **Q. What rates is Sprint submitting for the collocation elements covered under**
11 **Issue 9A?**

12
13 A. Page 5 of Exhibit JRD-2, filed with this testimony, contains a list of collocation
14 elements and associated recurring and nonrecurring charges.

15
16 **Q. Please provide a brief overview of the rest of Exhibit JRD-2.**

17
18 A. Exhibit JRD-2 is Sprint's collocation cost study. Beginning on page 6 is a
19 detailed narrative for each of the ten collocation cost categories (described
20 earlier). Each collocation cost category narrative contains a detail description of
21 each collocation element using headings like "Purpose", "Introduction", (costing)
22 "Assumptions", and (costing) "Methodology". Following each collocation
23 category narrative is an exhibit showing the core NRC and MRC cost calculations
24 behind each element appearing on the "Rate List" (page 5). Detailed "Work

1 Papers” and “Input Sheets” support the various cost calculation exhibits. All
2 costing exhibits, work papers, inputs and the element list are cross-referenced to
3 facilitate review of the study. The narratives and exhibits reveal the supporting
4 documentation (i.e. work order analysis, vendor quotes, actual material cost, etc.)
5 for each collocation element.

6

7 **Q. What guiding principles does Sprint employ in its cost studies?**

8

9 A. Sprint’s cost studies comply with TELRIC principles in that they are forward
10 looking with no inclusion of embedded costs. For example, current material costs
11 are combined with work times supported by recent collocation installations of
12 cross connects and smaller DC power feeds (60 amps or less). Other costs are
13 supported by up-to-date building construction costs (floor space element) or very
14 recent vendor quotes (for DC power plants and large power cables).

15

16 **Q. What underlying supporting documentation was used in the cost studies**
17 **which determined the collocation rates presented in Exhibit JRD-2?**

18

19 A. Where possible, study costs were determined based on analysis of recent
20 collocation work activities performed in Sprint-Florida central office buildings.
21 The following costs are either partially or totally supported by work activities:
22 transmission engineering fees, cage engineering and construction cost,
23 connections to power plant of 30, 60, and 100-amps, AC outlet, overhead lighting,
24 cross-connects of all band widths, and internal cable. In all, our costing team

1 examined over 190 work activities with more than 95% of those involving
2 collocations in the state of Florida.

3
4 Other costs are supported by current vendor quotes. Vendor quotes either
5 partially or totally support the DC power consumption element and “Connections
6 to Power Plant 100 and 200-Amps”.

7
8 This use of very recent and current Florida specific cost data is the best verifiable
9 data for predicting forward looking collocation costs in Sprint-Florida central
10 offices.

11
12 Sprint's floor space MRC is based on forward-looking central office building
13 investment costs. Building investment (including architectural, engineering, and
14 construction project management fees) is based on data from the 2003 version of
15 RS Means Costworks software. Using RS Means, Sprint's forward looking
16 building investments are determined as though its central office buildings, which
17 house conditioned transmission space, are newly constructed all at one time.

18
19 Manhole and conduit costs included in the internal cable space element were
20 taken from structure studies in Sprint's UNE cost study in Docket No. 990649B-
21 TP.

22
23
24

1 Work times developed by subject matter experts were used to develop
2 nonrecurring costs for application fees, augment fees and project management
3 fees.

4
5 Annual charge factors (ACF) were determined based on the capital structure, debt
6 and equity costs and tax rates ordered for Sprint by the Florida Public Service
7 Commission on January 8, 2003 in Docket No. 990649B-TP. The common cost
8 factor applied to collocation rate elements is also consistent with the
9 Commission's order in Docket No. 990649B-TP.

10

11 **Q. How did Sprint determine its cost structure in terms of which elements**
12 **would be recovered with nonrecurring charges (NRC's) verses monthly**
13 **recurring charges (MRC's)?**

14

15 A. Sprint's cost structure (NRC's verses MRC's) was determined through meetings
16 with subject matter experts (SME's) in the areas of Costing, CLEC operations,
17 Network Operations, and Wholesale Markets. Collocation arrangements present
18 unique challenges to the ILEC in its efforts to recover its cost. Collocation
19 arrangements exist so multiple providers can compete to serve the same end
20 customer. Work to process an application for a new collocation or an existing
21 collocation (augment) only benefits the ALEC who has made the application at
22 the time the application is made. Space availability including assignments of
23 interfaces to Sprint's network changes continuously which means that work
24 performed on an application or a space availability report on behalf of one ALEC

1 will not benefit future applicants for collocation. Each collocation arrangement is
2 unique and is built based on specifics contained on the ALEC's application.
3 Power and cross connect cables are ran to a specific collocation arrangement
4 reserved by the ALEC. These elements are provisioned to the specific quantities
5 of power and cross-connects (for varying bandwidths of DS0, DS1, DS3, OCC)
6 ordered by that ALEC. It is highly unlikely that any other ALEC will need the
7 same quantities of power and cross-connect elements used by a previous ALEC.
8 Given these factors, Sprint predominately uses NRCs for collocation to match
9 cost recovery with the timing of when the costs are incurred. Due to Sprint's
10 experience with abandoned and unclaimed collocation arrangements coupled with
11 a sharp decline in collocation applications, the continuance of NRCs to recover
12 our costs as they are incurred is warranted.

13
14 **Q. How were rates determined in the study presented in Exhibit JRD-2?**

15
16 **A.** Non-recurring charges (NRCs) were determined by applying common cost to the
17 sum of labor, materials, sales tax and freight. Some collocation elements (e.g.,
18 power and internal cabling) charged as NRCs have an accompanying monthly
19 recurring charge (MRC) to cover the ongoing cost of maintenance and other
20 applicable carrying charges.

21
22 Rates for elements recovered strictly through MRCs were determined by applying
23 the appropriate annual charge factor (ACF) to the sum of labor, materials, sales

1 tax and freight to determine the annual cost for the investment. The common cost
2 factor was applied to the annual cost to determine the total MRC.

3

4 **Q. What is the proper application of these rates?**

5

6 A. As mentioned previously in this testimony and covered under Sprint Witness, Mr.
7 Ed Fox's Direct testimony and by my rebuttal testimony under issues 1A, "New
8 Collocation – Application", "Minor Augment", "Major Augment", and "Space
9 Report" fees are applied and collected at the time the ALEC submits an
10 application for collocation or requests a space report. Fifty percent of all
11 remaining NRC's are appropriately applied and collected after receiving a firm
12 order from the ALEC and prior to the beginning of construction of the requested
13 collocation elements. The remaining 50% of the NRCs are appropriately applied
14 and collected within 30 days (allowing for the billing cycle) of acceptance of the
15 collocation arrangement by the ALEC. Also as covered by Sprint Witness Fox in
16 his direct testimony and by myself in my rebuttal testimony under issue 1B, the
17 MRC's are properly applied following the acceptance of the collocation
18 arrangement with billing beginning within 30 days.

19

20 **Q. Does this conclude your direct testimony on issues 9A and 9B?**

21

22 A. Yes.

23

24