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November 1, 2000

Ms. Blanca S. Bayó, Director Division of Records and Reporting Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850

Re: Docket No. 000828-TP Sprint's Direct Testimony

Dear Ms. Bayó:

Enclosed for filing is the original and fifteen (15) copies of Direct Testimony of: David T. Rearden, Michael R. Hunsucker, Melissa L. Closz, Angela Oliver, Mark G. Felton, and James Lenihan.

14180-00 thru 14185-00

Please acknowledge receipt and filing of the above by stamping the duplicate copy of this letter and returning the same to this writer.

Sincerely,

Susan S. Masterton

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### **CERTIFICATE OF SERVICE**

# DOCKET NO. 000828-TP

I hereby certify that U.S. Mail or hand-delivery served a true and correct copy of the foregoing this 1st day of November, 2000 to the following:

Nancy B. White C/o Nancy H. Sims BellSouth Telecommunications, Inc. 150 S. Monroe Street, Suite 4000 Tallahassee, Florida 32301-1556

Tim Vaccaro
Division of Legal Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

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Susan S. Masterton

Sprint Communications Company, L.P. Docket No: 000828-TP Filed: November 1, 2000

1	BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION			
2		DIRECT TESTIMONY		
3	3 OF			
4		DAVID T. REARDEN		
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6				
7	7 Item 1: Introduction			
8	Q.	Please state your full name, position, and business address.		
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10	A.	My name is David T. Rearden. I am employed by Sprint Communications		
11		Company Limited Partnership (Sprint) as a Manager of Regulatory Policy. My		
12		business address is 8140 Ward Parkway, Kansas City, Missouri 64114.		
13				
14	Q.	Please describe your educational background, work experience and present		
15		responsibilities.		
16				
17	A.	I received a Ph.D. in economics from the University of Kansas in 1991 with fields		
18		of specialization in microeconomics and econometrics and a Bachelor of Arts		
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00				
20		I began working for Sprint Communications Company L.P. in January of 1998.		
21		Prior to joining Sprint, I was employed on the Staff in the Utilities Division of the		
22		Kansas Corporation Commission. I began at the Kansas Commission in June		
23		1994 as Managing Research Economist. In the summer of 1996, I was promoted		

to Chief of the Rate Design Section and Managing Telecommunications Economist. I supervised five tariff analysts and participated in numerous telecommunications proceedings before the Kansas Commission. Before working at the Commission, I taught economics for two years at the University of Kansas. I also taught economics for two years at Cleveland State University. Subjects taught included microeconomics, mathematical economics, public finance, and econometrics.

My current responsibilities include the development and advocacy of Sprint's regulatory policy on a wide range of issues including, local market entry, Total Element Long Run Incremental Cost or TELRIC costing and pricing of unbundled network elements (UNEs), universal service, access charges, anti-competitive pricing of interexchange services and Section 271 applications. I have filed testimony and affidavits before the public utility Commissions in the states of California, Georgia, Kansas, Kentucky, Maryland, Nebraska, New York, North Carolina, Vermont, Wisconsin and Wyoming and before the Telecommunications Regulatory Board in Puerto Rico. I have written or contributed to numerous sets of comments filed on behalf of Sprint in several states.

### Item 2: Purpose, Outline, and Summary of Testimony

20 Q. Please provide a brief description of your testimony.

A. The purpose of my testimony is to demonstrate that the appropriate mechanism for compensating local exchange carriers (LECs) for terminating traffic to an

Internet Service Provider (ISP) is reciprocal compensation. My testimony supports the Florida Public Service Commission ("Commission" or "FPSC") decisions which have consistently required incumbent local exchange carriers (ILECs) to pay reciprocal compensation for ISP traffic delivered to a alternative local exchange company (ALEC) and requests that the Commission again make the same finding.

Q. Does Sprint's position conform to the FPSC's previous decisions regarding the appropriate compensation for terminating traffic to an ISP?

A.

Yes. Sprint's position is consistent with the FPSC's rulings on this issue that reciprocal compensation is due on ISP-bound traffic. In particular, the Commission's most recent Order on this issue is in Docket No. 991220-TP. Carriers incur significant costs in terminating traffic to ISPs and those carriers should be afforded the opportunity to recover their costs. Reciprocal compensation is the mechanism used to recover costs associated with the termination of all other types of traffic. Termination of ISP-bound traffic ought not to be treated in a discriminatory manner. This Commission has thoroughly examined this same issue several times in the recent past and has concluded in each instance that reciprocal compensation should be paid for ISP-bound traffic.

Q. What is BellSouth's position regarding the appropriate compensation for terminating traffic to an ISP?

BellSouth's position is in direct opposition to the Commission's recent rulings on this issue. BellSouth argues that it should not pay to terminate ISP-bound traffic on an ALEC's network. This argument uses the previous jurisdictional finding of the Federal Communications Commission (FCC) in its Declaratory Ruling¹ that ISP-bound traffic is jurisdictionally mixed though largely interstate. As the Commission is well aware, however, this FCC Order has been vacated and remanded by the Court of Appeals for the D.C. Circuit.² Under BellSouth's reasoning, reciprocal compensation rates cannot apply because such rates are for local traffic only under the Telecommunications Act of 1996 (Act). Therefore, according to BellSouth, the reciprocal compensation provisions of the local interconnection agreement should compensate for local, but not for ISP-bound traffic.

A.

Q. What are the main conclusions of your testimony regarding reciprocal compensation?

A. Although I am not an attorney, based upon my review of the FPSC's Orders on this issue, the FCC's Declaratory Ruling, and the U.S. Court of Appeals for the District of Columbia Circuit's ruling, it is clear that BellSouth and Sprint should pay reciprocal compensation for ISP-bound traffic. Therefore, the Commission should adopt Sprint's proposal on this issue.

<sup>2</sup> <u>See</u> Bell Atlantic Telephone Companies v. Federal Communications Commission and United States of America, 206 F.3d 1 (D.C. Cir. March 24, 2000) ("Bell Atlantic")

<sup>&</sup>lt;sup>1</sup> In the Matter of Implementation of the Local Competition Provisions in the Telecommunications Act of 1996, Intercarrier Compensation for ISP-Bound Traffic, CC Docket Nos. 96-98, 99-68, 14 FCC Rcd 3689 (1999).

- 3 (A) The Florida Public Service Commission Has Jurisdiction And Authority To
- 4 Order Reciprocal Compensation For ISP Traffic.

- 6 Q. How did the D.C. Circuit Court's recent ruling impact the FCC's previous
- 7 finding regarding the mixed jurisdictional nature of Internet traffic?

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9 A. On March 24, 2000 the U.S. Court of Appeals for the District of Columbia Circuit

10 vacated the FCC's Declaratory Ruling. Based upon my understanding of the *Bell*11 *Atlantic* decision, the Court vacated the FCC's ruling that ISP-bound traffic is

12 interstate in nature on the basis that the FCC did not justify its use of an "end-to
13 end" analysis. The *Bell Atlantic* Court also questioned the ruling in light of the

14 FCC's reaffirmation of its decision to grant ESPs an exemption from paying

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The *Bell Atlantic* Court stated that the FCC's extension of "end-to-end" analysis from jurisdictional purposes to the ISP context yielded intuitively backward results. Much of my testimony below relates to the FCC's previous Declaratory Ruling. However, the reasons explained in the Court's decision to vacate the FCC's order and remand the issue back to the administrative body only strengthens Sprint's argument that reciprocal compensation is due for termination of ISP-bound traffic. The *Bell Atlantic* opinion supports the view that a call to an

access charges.<sup>3</sup>

<sup>3</sup> Bell Atlantic at 21.

ISP is like a call to a local business that then uses the telephone to order products or services. This bolsters the case for reciprocal compensation being due for Internet traffic. Also, as I discuss in more detail below, nothing in the *Bell Atlantic* Court decision affects consideration of the fact that ALECs incur real costs in terminating such traffic to ISPs. Such costs should not go uncompensated.

Q. In light of the FCC's and D.C. Circuit's rulings, to what extent does the
 Florida Commission have jurisdiction to regulate inter-carrier compensation
 for traffic to Internet Service Providers?

12 A. The Circuit Court's *vacatur* and remand of the FCC's Declaratory Ruling did not
13 consider the FCC's determination in the Declaratory Ruling that state
14 Commissions have the authority to require ILEC payments to ALECs for ISP
15 reciprocal compensation. Further, the FPSC has previously determined that it has
16 jurisdiction over reciprocal compensation for traffic delivered by ALECs to ISPs
17 and has already ruled several times that ILECs must pay ALECs reciprocal
18 compensation for such traffic.

Q. Has the Commission previously ruled whether ISP-bound calls are local for the purpose of reciprocal compensation?

2	A.	Yes. In the Global NAPs, Inc. arbitration with BellSouth, the Commission				
3	determined that:					
4	dial-up connections to an ISP, or ISP-bound traffic, shall					
5	be treated as local traffic for purposes of reciprocal					
6	compensation4					
7	In Docket No. 991946-TP <sup>5</sup> the Commission granted summary judgement in favor					
8	of ITC^DeltaCom. The Commission found that:					
9		The Agreement does not segregate traffic to ISPs from local				
10	traffic and thusthe plain language of the Agreement calls for					
11	the payment of reciprocal compensation for all local traffic,					
12	including traffic bound for ISPs.6					
13						
14	(B)	ALEC Costs by Themselves Justify Implementation of a Mechanism to				
15	Compensate ALECs for Terminating Traffic to ISPs.					
16						
17	Q.	Do ALECs and ILECs incur costs when they terminate traffic to an ISP?				
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<sup>6</sup> Order No. PSC-00-1540-FOF-TP, issued August 24, 2000. p. 13.

<sup>&</sup>lt;sup>4</sup> Order No. PSC-00-1680-FOF-TP, issued September 19, 2000 in Docket No. 991220-TP In re: Petition by Global NAPS, Inc. for arbitration of interconnection rates, terms and conditions and related relief of proposed agreement with BellSouth Telecommunications, Inc., p. 14.
<sup>5</sup> In re: Request for arbitration concerning complaint of ITC^DeltaCom Communications, Inc against BellSouth Telecommunications, Inc. for breach of interconnection terms, and request for immediate relief.

1	A.	Yes. Both ALECs and ILECs incur costs for terminating traffic to ISPs. In the		
2		portion of the Declaratory Ruling devoted to the Notice of Proposed Rulemaking,		
3		the FCC acknowledged that:		
4		No matter what the payment arrangement, LECs incur a		
5		cost when delivering traffic to an ISP that originates on		
6		another LEC's network. (Declaratory Ruling at ¶ 29).		
7				
8	Q.	Would the costs be similar for an ISP-bound call originating on Sprint's		
9		ALEC network and terminating on BellSouth's network?		
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11	A.	Yes, similar costs would be incurred when a Sprint ALEC end user customer		
12		places a local call to a dial-up ISP served by BellSouth. The traffic traverses		
13		similar portions of BellSouth's network equipment and facilities. To recover its		
14		costs, BellSouth charges ALECs full reciprocal compensation rates for		
15		terminating ISP-bound traffic on BellSouth's network.		
16				
17	Q.	Given these factors, how do you suggest the Commission determine the costs		
18		of connecting a call to an Internet Service Provider?		
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The Commission should determine that it is reasonable to use BellSouth's

reciprocal compensation rate as a basis upon which to develop rates in this

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A.

<sup>&</sup>lt;sup>7</sup> I will use the term "terminate" in this testimony in the sense of the delivery of the traffic to the ISP and not with regard to the FCC jurisdictional analysis.

interconnection agreement. Sprint proposes to establish a per call charge and a separate per minute charge for local switching. I discuss Sprint's rate structure proposal more fully below.

(C) Dial-Up Internet Traffic Should Not Be Segmented Into A Separate Class of
 Traffic.

Q. Does creating a separate class of service for ISP dial-up traffic alleviate theconcern about uneven traffic flow to ISPs?

A.

No. There are several reasons why a separate class of service should not be created for dial-up Internet traffic. First, it does not appear that technology is sufficiently developed to separate out dial-up Internet traffic from other types of local traffic. Second, there are other types of traffic, besides Internet traffic that tend to generate a disproportionately larger amount of terminating traffic than originating. It is far from clear that Internet traffic should be singled out without examining other types of traffic and their costs. And third, ALECs and data LECs are just in the initial stages of building out their networks. Until their networks are completed, it is difficult to determine their costs of terminating ISP-bound as well as other types of traffic. Given all of these uncertainties, it appears that there is little, if any benefit to segregating dial-up Internet traffic as a separate class.

Q. Can Internet traffic presently be distinguished from other categories oftelephone calls?

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4 No. The equipment currently in use does not allow one LEC to positively identify A. 5 ISP-bound traffic terminating to another LEC. At present, the method an 6 interconnected carrier has for estimating ISP-bound traffic that it is terminating to 7 a ALEC is to compare originating and terminating traffic flows between itself and 8 the ALEC. If the ILEC is terminating significantly more traffic to the ALEC than 9 the ALEC terminates to the ILEC, then the ILEC typically assumes that the traffic 10 terminating to the ALEC is ISP-bound traffic. However, it must be emphasized 11 that the ILEC cannot know a priori whether the traffic to the ALEC is ISP-bound. 12 Rather, the ILEC must conjecture that the traffic is ISP-bound based on terminating traffic ratios or holding times.8 13

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15 Q. Is the use of terminating traffic ratios an ironclad method to determine the type of traffic being terminated?

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A. Absolutely not. ALECs and ILECs can have large quantities of terminating traffic for reasons other than terminating traffic to an ISP. There are a number of businesses and public agencies that receive more in-bound traffic than outbound.

<sup>&</sup>lt;sup>8</sup> In some instances, ILECs have measured the traffic terminating to an ISP by asking the ALEC to identify ISP-related NXXs. However, such a method is administratively burdensome and largely unworkable. Billing records must be updated frequently to ensure accurate tracking of ISP minutes. Additionally, If an ILEC knows that a ALEC serves only ISP traffic, the ILEC could identify the trunk groups serving that ALEC and measure the traffic flowing over those trunk groups.

For example, if the ALEC services a city, county, or state government agency, particularly one that offers call-in help lines, (such as a county extension service) then it will have a larger amount of traffic terminating than originating. An ALEC that provides service to a talk radio station will have a significantly greater amount of terminating traffic. Similarly, an ALEC that provides service to a business office that has a Local Area Network (LAN) and allows its employees to dial-in to the company's LAN and work from a remote location such as the employees' home will have a large amount of terminating traffic. particularly true since employees dialing into their LAN will likely log-on and remain on line for the greater part of a day. In fact, if an employee has a second local line at his or her house solely for the purpose of logging onto the company's LAN, the employee may simply leave the computer logged on to the LAN 24 hours a day, 7 days a week. As more companies allow their employees to work at home and log into the company's computers from home, this type of traffic has the potential to generate terminating traffic volumes even greater than that generated by dialing into ISPs. Inasmuch as the ILECs still serve the lion's share of the local business market, they are the main beneficiaries of traffic terminating to business LANs. Accordingly, it may be reasonable to review the rates paid for LAN-bound traffic terminating to the ILECs. There are clearly several situations that involve significantly higher relative amounts of terminating traffic in addition to the case of a CLEC delivering traffic to an ISP. High terminating to originating traffic ratios thus do not necessarily imply that the traffic is ISP-bound.

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1	Q.	How can Internet traffic be distinguished from other categories of telephone
2		calls?

A. There are no simple methods to separate ISP-bound traffic from voice call traffic at present. Telecommunications markets, technology, and other relevant factors are changing at a fast pace. In the future, it may be technically feasible to uniquely identify ISP traffic from non-ISP traffic. If ISP traffic can be separated and identified, it may be possible to develop specific cost studies.

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- 10 (D) Reciprocal Compensation Rates are the Appropriate Rates to Charge for
- 11 Terminating Traffic to an ISP Pending a Final FCC Rule on Inter-Carrier
- 12 Compensation.

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Q. What compensation arrangement or methodology should carriers employ to compensate each other for completing a dial-up Internet call?

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17 A. Carriers should compensate each other for completing a dial-up Internet call the
18 same as they would for completing any other local call. This is the only
19 mechanism to ensure that carriers are compensated for costs incurred in
20 terminating or delivering traffic.

Q. What compensation arrangement or methodology has the FCC suggested for carriers to employ to compensate each other for completing a dial-up Internet call?

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5 A. The FCC has yet to make a final determination regarding the appropriate 6 compensation arrangement or methodology for carriers to use to compensate each 7 other for completing dial-up Internet calls. But the FCC has clearly stated that 8 reciprocal compensation is an acceptable option for the interim period. The FCC 9 declared that state Commissions may order reciprocal compensation be paid for 10 terminating ISP-bound traffic. And the Florida Commission has already ruled 11 that it has the authority to establish reciprocal compensation for Internet traffic. A 12 carrier incurs costs when it terminates a call on its network to an ISP. Principles 13 of economic efficiency dictate that the carriers must be compensated for such 14 traffic.

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# Item 4. Sprint's Reciprocal Compensation Proposal

# 17 Q. How should reciprocal compensation rates be calculated?

18 A. There is only one refinement to the current rates that is necessary — and this
19 refinement should be applied to all types of local traffic, including both voice
20 calls and calls to ISPs: The reciprocal compensation rate for local switching
21 should be bifurcated into a fixed call set-up charge and a separate per-minute
22 charge. This structure for local switching was recently adopted by the Texas

PUC, 9 and it places local switching cost recovery on a much sounder economic footing. A significant portion of the costs of local switching consists of set-up costs that do not vary with the duration of the call. These costs include the amount of time the switch central processor requires to set up the call, together with some SS7 network costs associated with setting up the trunk required for the call, while the variable switching costs consist primarily of the line and trunk investment portions of the switch. Today, both sets of costs are generally recovered by a single minute of use (MOU) charge. As a result, there is appropriate cost recovery only for calls of average duration. The terminating carrier fails to fully recover its call set-up costs for very short calls, whereas that carrier over-recovers its costs on very long calls.

Q. Please give an example that shows how over-recovery of switching occurs on long calls.

A. Assume, as the Texas PUC found, that the average voice call lasts 3 minutes and the average ISP call is 29 minutes long. Assume also that there is a call set-up rate of \$.0018 per call and a per-minute charge of \$.0010. Under the current approach of using a blended rate, there is a single charge to recover the fixed cost (\$.0018) plus the variable cost for an average duration call of 3 minutes (3 x \$.0010)), or a total cost of \$.0048. This results in a rate for local switching of

<sup>&</sup>lt;sup>9</sup> Proceeding to Examine Reciprocal Compensation Pursuant to Section 252 of the Federal Communications Act of 1996, Docket No. 21982, Arbitration Award, July 13, 2000, at 49.

In fact many customers — particularly those with second lines — may maintain a call into their ISP for several hours at a time.

\$.0016 per MOU. The total local switching cost for a 29-minute ISP call would be \$.0308 ((29 x \$.0010) + \$.0018). However, charging a blended rate of \$.0016 per minute for this call would result in a reciprocal compensation payment of \$.0464 — more than 50% above the actual local switching cost.

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## 6 Q. Can local switching costs be readily separated into two elements?

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A. Yes. The Telecordia SCIS switching cost model widely employed by the industry
has a standard output for central processor call set-up costs. Signaling costs are
not recovered, in the reciprocal compensation context, by any other charge. Thus,
switching costs can be reliably separated into call setup and per MOU amounts.

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### Q. Do billing systems need to be modified?

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15 A. Sprint recognizes that establishing a two-part rate for local switching 16 requires modification of existing billing systems and proposes that the FPSC give 17 the parties a reasonable time (one year should be more than sufficient) to modify 18 their billing systems to accommodate the two-part charge. Alternatively, having 19 different local switching rates for different bands of holding time could 20 satisfactorily approximate the two-part structure. Each interconnected carrier 21 could be assigned to a band based on average hold times for that carrier, 22 determined by traffic studies.

1	Item	5.	Summary
	*****	-	Surman y

- 3 Q. Please summarize Sprint's position regarding the appropriate compensation
- 4 for terminating traffic to an ISP.

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6 A. The Florida Commission should adopt Sprint's proposal in connection with its 7 interconnection agreement with BellSouth regarding the inclusion of ISP traffic as 8 local traffic for purposes of reciprocal compensation because it is consistent with 9 the FPSC's prior rulings on the subject. Until the FCC adopts a permanent rule 10 concerning such traffic, this Commission's previous rulings on reciprocal 11 compensation for ISP traffic should govern the parties' interconnection 12 Agreement in this regard. Accordingly, the Florida Commission should order 13 BellSouth to pay Sprint at rates that are equivalent to reciprocal compensation 14 rates for terminating traffic to an ISP on Sprint's network using a bifurcated rate 15 structure for switching.

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17 Q. Does this conclude your Direct Testimony?

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19 A. Yes.