

BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

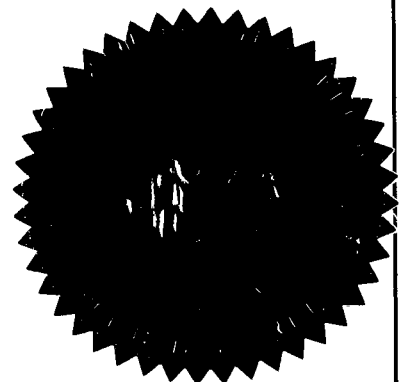
In the Matter of

PETITION OF COMPETITIVE CARRIERS  
FOR COMMISSION ACTION TO SUPPORT  
LOCAL COMPETITION IN BELLSOUTH  
TELECOMMUNICATIONS, INC.'S  
SERVICE TERRITORY.

DOCKET NO. 981834-TP

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PETITION OF ACI CORP. d/b/a/  
ACCELERATED CONNECTIONS, INC. FOR  
GENERIC INVESTIGATION TO ENSURE THAT  
BELLSOUTH TELECOMMUNICATIONS, INC.,  
SPRINT-FLORIDA, INCORPORATED, AND  
GTE FLORIDA INCORPORATED COMPLY WITH  
OBLIGATION TO PROVIDE ALTERNATIVE LOCAL  
EXCHANGE CARRIERS WITH FLEXIBLE, TIMELY,  
AND COST-EFFICIENT PHYSICAL COLLOCATION.

DOCKET NO. 990321-TP



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VOLUME 2

PAGES 117 THROUGH 267

PROCEEDINGS: HEARING

BEFORE: CHAIRMAN LILA A. JABER  
COMMISSIONER J. TERRY DEASON  
COMMISSIONER BRAULIO BAEZ  
COMMISSIONER RUDOLPH "RUDY" BRADLEY  
COMMISSIONER CHARLES M. DAVIDSON

DATE: Monday, August 11, 2003

DOCUMENT NUMBER DATE

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TIME: Commenced at 9:30 a.m.

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

REPORTED BY: JANE FAUROT, RPR  
Chief, Office of Hearing Reporter Services  
FPSC Division of Commission Clerk and  
Administrative Services  
(850) 413-6732

APPEARANCES: (As heretofore noted.)

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I N D E X  
WITNESSES

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EXHIBITS

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NUMBER:

MRKD.

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14 Covad Hypothetical Exhibit

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## P R O C E E D I N G S

1  
2 CHAIRMAN JABER: Call your next witness.

3 MS. WHITE: We call Keith Milner to the stand.

4 W. KEITH MILNER

5 was called as a witness on behalf of BellSouth  
6 Telecommunications, Inc., and, having been duly sworn,  
7 testified as follows:

## D I R E C T E X A M I N A T I O N

8  
9 BY MS. WHITE:

10 Q Mr. Milner, could you please state your name and  
11 address for the record?

12 A Yes. My name is W. Keith Milner. My business  
13 address is 675 West Peachtree Street, Atlanta, Georgia.

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

15 A My employer is BellSouth Telecommunications,  
16 Incorporated, and my title is Assistant Vice President,  
17 Interconnections Operations.

18 Q Have you caused to be prefiled in this case direct  
19 testimony consisting of 19 pages?

20 A Yes, ma'am.

21 Q Do you have any changes to that testimony?

22 A No.

23 Q If I were to ask you those same questions that are  
24 contained in your direct testimony today, would your answers be  
25 the same?

1 A Yes, they would.

2 MS. WHITE: I would ask that the direct testimony of  
3 Mr. Milner be entered into the record as though read.

4 CHAIRMAN JABER: The prefiled direct testimony of W.  
5 Keith Milner shall be inserted into the record as though read.

6 BY MS. WHITE:

7 Q And surprisingly, again, Mr. Milner, you have no  
8 exhibits to your direct testimony?

9 A That is correct.

10 MS. WHITE: I think this is the first time in ages  
11 that I have had two witnesses that have no exhibits.

12 CHAIRMAN JABER: I would think so.

13 BY MS. WHITE:

14 Q Mr. Milner, you also caused to be prefiled in this  
15 case rebuttal testimony consisting of 12 pages?

16 A Yes.

17 Q And do you have any changes to that testimony?

18 A No, I don't.

19 Q And if I were to ask you the questions in your  
20 rebuttal testimony today, would your answers be the same?

21 A They would.

22 MS. WHITE: I would ask that Mr. Milner's rebuttal  
23 testimony be entered into the record.

24 CHAIRMAN JABER: The prefiled rebuttal testimony of  
25 W. Keith Milner shall be inserted into the record as though

1 read.  
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1 Bellsouth Telecommunications, Inc.  
2 Direct Testimony of W. Keith Milner  
3 Before the Florida Public Service Commission  
4 Docket Nos. 981834-TP and 990321-TP  
5 December 19, 2002  
6

7 Q. Please state your name, address, and position with Bellsouth  
8 Telecommunications, Inc. 6

9  
10 A. My name is W. Keith Milner. My business address is 675 West Peachtree Street,  
11 Atlanta, Georgia 30375. I am Assistant Vice President - Interconnection  
12 Operations for BellSouth Telecommunications, Inc. ("BellSouth"). I have served  
13 in my current role since February 1996 and have been involved with the  
14 management of certain issues related to local interconnection and unbundling.

15  
16 Q. Please summarize your background and experience.

17  
18 A. My career in the telecommunications industry spans over 32 years and includes  
19 responsibilities in the areas of network planning, engineering, training,  
20 administration, and operations. I have held positions of responsibility with a local  
21 exchange telephone company, a long distance company, and a research and  
22 development company. I have extensive experience in all phases of  
23 telecommunications network planning, deployment, and operations in both the  
24 domestic and international arenas.

25



1 I graduated from Fayetteville Technical Institute in Fayetteville, North Carolina, in  
2 1970, with an Associate of Applied Science in Business Administration degree. I  
3 graduated from Georgia State University in 1992 with a Master of Business  
4 Administration degree.

5

6 Q. HAVE YOU TESTIFIED PREVIOUSLY BEFORE ANY STATE PUBLIC  
7 SERVICE COMMISSION? IF SO, BRIEFLY DESCRIBE THE SUBJECT OF  
8 YOUR TESTIMONY.

9

10 A. Yes, I have testified before the state Public Service Commissions in Alabama,  
11 Florida, Georgia, Kentucky, Louisiana, Mississippi, and South Carolina, the  
12 Tennessee Regulatory Authority, and the North Carolina Utilities Commission on  
13 the technical capabilities of the switching and facilities network, introduction of  
14 new service offerings, expanded calling areas, unbundling, and network  
15 interconnection.

16

17 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY TODAY?

18 

19 A. My testimony will address unresolved collocation issues brought forth in Petitions  
20 for Reconsideration and Clarification by various parties of record pursuant to  
21 Order No. PSC-00-2190-PCO-TP issued November 17, 2000, by the Florida  
22 Public Service Commission ("Commission") regarding Docket Nos. 981834-TP  
23 and 990321-TP. Specifically, I will address issues 4, 5, 6A, 6B, 6C, 7 and 8.

24

25

1 **Issue 4: Should the ILEC be required to provide copper entrance facilities within**  
2 **the context of a collocation inside the central office?**

3

4 Q. HAS THE FCC TAKEN A POSITION REGARDING A LOCAL EXCHANGE  
5 COMPANY'S OBLIGATIONS TO PROVIDE FOR SUCH NON-FIBER OPTIC  
6 FACILITIES?

7

8 A. Yes, the FCC's First Report and Order in CC Docket 96-98, August 8, 1996,  
9 Paragraph 565, adopted the existing Expanded Interconnection requirements,  
10 with some modifications, as the rules applicable for collocation under section 251  
11 of the Telecommunications Act of 1996. More specifically, this issue was  
12 addressed in the FCC's Second Report and Order, In the Matter of Expanded  
13 Interconnection with Local Telephone Company Facilities in CC Docket 91-141,  
14 Transport Phase I, released September 2, 1993. Paragraph 69 of that Report  
15 and Order states: "LECs are not required to provide expanded interconnection for  
16 switched transport for non-fiber optic cable facilities (e.g., coaxial cable). In the  
17 Special Access Order, we [that is, the FCC] concluded that given the potential  
18 adverse effects of interconnection on the availability of conduit or riser space,  
19 interconnection should be permitted only upon Common Carrier Bureau approval  
20 of a showing that such interconnection would serve the public interest in a  
21 particular case. We adopt this approach for switched transport expanded  
22 interconnection."

23

24 Further, the FCC's Report and Order, In the Matter of Expanded Interconnection  
25 with Local Telephone Company Facilities, CC Docket 91-141, Released October


1 19, 1992, at Paragraph 99 states: "At least one party supported interconnection  
2 of non-fiber optic cable facilities (e.g., copper coaxial cable) provided by third  
3 parties. A number of the LECs, however, have argued that such a requirement is  
4 undesirable because it would make limited conduit and riser space available to  
5 technologies that are much less space efficient than fiber. Given the potential  
6 adverse effects of such interconnection on the availability of conduit and riser  
7 space, we [that is, the FCC] believe that interconnection of non-fiber optic cable  
8 should be permitted only upon Commission approval of a showing that such  
9 interconnection would serve the public interest in a particular case."

10  
11 Currently, the FCC's Rule 51.323 (d)(3) addresses this issue:

12  
13 (d) When an incumbent LEC provides physical collocation, virtual  
14 collocation, or both, the incumbent LEC shall:

15 (3) Permit interconnection of copper or coaxial cable if such  
16 interconnection is first approved by the state commission.

17

18  WHAT DID THIS COMMISSION'S ORDER OF MAY 11, 2000, RULE ON THIS  
19 SPECIFIC ISSUE?

20

21 A. This Commission stated "We have considered the fact that entrance facilities  
22 have a certain capacity per central office and that allowing copper cabling could  
23 accelerate the entrance facility exhaust interval. Therefore, ILECs shall be  
24 allowed to require an ALEC to use fiber entrance cabling after providing the  
25 ALEC with an opportunity to review evidence that demonstrates entrance

1 capacity is near exhaustion at a particular central office. The evidence of record  
2 is insufficient to determine what percentage of entrance facility should be in use  
3 before requiring fiber optic cabling; however, factors for consideration should  
4 include, but not be limited to, subscriber growth, "off-site collocation" growth and  
5 cabling request, and cabling requirements of the ILEC." Order, pp. 25-26.

6

7 Q. WHAT IS BELLSOUTH'S BASIC POSITION REGARDING THE TYPE OF  
8 ALEC-OWNED OR ALEC-LEASED ENTRANCE FACILITIES AN ALEC MAY  
9 PLACE IN ITS COLLOCATION SPACE?

10

11 A. ALECs have suggested that they be allowed to bring copper cables through  
12 BellSouth's entrance facilities in order to interconnect with BellSouth's network.  
13 The trend in the telecommunications industry is for cables and equipment to be  
14 reduced in size, not increased in size. For example, yesterday's 3,600 pair  
15 copper cable required its own four inch conduit. The capacity provided by that  
16 copper cable could now easily be provided by a fiber optic cable, which is a little  
17 more than one-half inch in diameter, an eight-fold reduction simply in terms of  
18 cable diameter. In terms of capacity that may be derived over fiber optic cable,  
19 the differences are even more significant. Synchronous Optical Network  
20 ("SONET") transmission facilities handling 48 DS-3s (each with 672 channels)  
21 are common. Thus, a single SONET OC-48 system has 896% the capacity [that  
22 is,  $(48 \times 672) / 3,600$ ] of a 3,600 pair copper cable while requiring only one-eighth  
23 the space in the entrance duct.

24

25

1 Accommodation of ALECs' requests to use BellSouth's entrance facilities to bring  
2 new copper cables into BellSouth's central offices would accelerate the exhaust  
3 of entrance facilities at its central offices at an unacceptable rate, as compared to  
4 current technologies such as fiber optic cable.

5  
6 One notable exception is the situation in which BellSouth will permit an ALEC to  
7 use copper entrance cabling. That exception is limited to the situation involving  
8 an ALEC's use of a controlled environmental vault ("CEV") or similar structure  
9 constructed or otherwise provided by the ALEC on the same parcel of land as  
10 BellSouth's central office (what BellSouth calls adjacent collocation). The  
11 rationale for this exception is simple. Only in an adjacent collocation situation is  
12 an ALEC unable to use fiber entrance facilities and must use copper. The FCC  
13 stated in Paragraph 44 of the FCC's Order on Reconsideration and Second  
14 Further Notice of Proposed Rulemaking in CC Docket No. 98-147 and Fifth  
15 Further Notice of Proposed Rulemaking in CC Docket No. 96-98, released  
16 August 10, 2000 ("Collocation Reconsideration Order"), that adjacent collocation  
17 is available to ALECs when space inside the central office is legitimately  
18 exhausted. Fiber optic entrance cabling must be connected to a fiber optic  
19 terminal (multiplexer or other of the ALEC's equipment in the ALEC's physical  
20 collocation arrangement) inside the central office in order to connect with  
21 BellSouth's network. The predicate, however, for the ALEC to obtain adjacent  
22 collocation is that space for physical collocation within the central office is  
23 exhausted. If space is exhausted, there is no room for the installation of the  
24 ALEC's fiber optic terminal or other equipment in the central office. Therefore, in  
25 an adjacent collocation situation, BellSouth will allow the ALEC to use copper

1 entrance cabling between the adjacently located arrangement and the inside of  
2 BellSouth's central office in keeping with the context of collocation outside of the  
3 central office, not inside the central office.

4

5 Q. HOW DOES BELLSOUTH WANT THE COMMISSION TO RESOLVE THIS  
6 ISSUE?

7

8 A. This Commission should affirm that, consistent with the FCC's Rules in CC  
9 Dockets 96-98 and 91-141, BellSouth is not required to accommodate requests  
10 for non-fiber optic facilities placed in BellSouth's entrance facilities unless the  
11 Commission determines in a particular case that it is necessary, and the  
12 Commission's Order should be clarified on this issue.

13

14 **Issue 5: Should an ILEC be required to offer, at a minimum, power in standardized**  
15 **increments? If so, what should the standardized power increments be?**

16

17 Q. WHAT IS BELLSOUTH'S POSITION ON THIS ISSUE?

18

19 A. There are three options under which an ALEC may order power for its collocation  
20 space from BellSouth. First, an ALEC may request power from BellSouth's  
21 Battery Distribution Fuse Board ("BDFB") in all available power increments that  
22 range from as low as 10 amps all the way up to 100 amps, or any combination  
23 thereof, to each piece of equipment in its collocation space. In this scenario, an  
24 ALEC performs the power cabling from each piece of its collocated equipment to

25

1 BellSouth's BDFB. This is by far the most common means by which ALECs  
2 request power for their collocation arrangements.

3  
4 As a second option, an ALEC may install its own BDFB inside its collocation  
5 space and order power directly from BellSouth's main power board. The main  
6 power board is part of the power plant and is the main DC power distribution  
7 source for all of the equipment and all of the BDFBs – both BellSouth's and the  
8 ALECs' – in the central office. A standard 225-amp power feed is required to  
9 connect the ALEC's BDFB to BellSouth's main power board.

10  
11 BellSouth does not support smaller protection devices than 225 amps at the main  
12 power board because there are inherent standardization and interval  
13 improvements associated with the 225-amp fused power capacity<sup>1</sup> and this  
14 complies with specific National Electric Code ("NEC") requirements for electrical  
15 system coordination (Article 240-12). The NEC requires coordination to properly  
16 localize a fault condition to restrict outages to the equipment affected. In other  
17 words, a short circuit condition should affect the operation of the downstream  
18 fuse serving just that piece of equipment, rather than the upstream circuit breaker  
19 serving the entire BDFB. Manufacturers' time-current curves, let-through and  
20 withstand capacities, and unlatching times are used to determine proper over-

21  
22 <sup>1</sup> BellSouth's standard size circuit breaker protection device of 225 amps was developed before collocation (in  
23 TR73503, circa 1993) based on BellSouth's interpretation of findings from a Telcordia/Bellcore study on arcing in  
24 central offices resulting from the Hinsdale incident (*i.e.*, a devastating fire in a Chicago central office). Prior to the  
25 Hinsdale incident, BellSouth typically installed standard size circuit breaker protection devices of 225 amps and 400  
amps at the main power board. The Telcordia/Bellcore study found that: 1) arcing may occur in central offices,  
usually due to poor workmanship in H-tap and other connectors and 2) while no protection device will operate 100%  
of the time due to the physical nature of a DC arc, 225 amp protection devices experience a significantly higher  
chance of operating during an arc than 400 amp or larger protection devices. So BellSouth's 225-amp circuit  
breaker standard was developed three years before the Act was issued and is an attempt by BellSouth to minimize  
the potential for fire in its central offices.

1 current protection coordination. For TPS type fuses (which are the most  
2 common fuses used in BellSouth's central offices), a three to one ratio for  
3 upstream protection devices versus downstream protection devices is required.  
4 Therefore, if there are 60-amp fuses in the BDFB serving equipment bays, at  
5 least a 180-amp upstream device is required to serve the BDFB. Thus, it would  
6 be a violation of the NEC for BellSouth to serve an ALEC's BDFB with a smaller  
7 protection device (such as 125 fused amps), when it is common for equipment  
8 bays to require a 40-amp drain and a 60-amp protection device at the BDFB.

9  
10 In response to concerns expressed by ALECs in the BellSouth/ALEC Collocation  
11 User Group forum and several of the state 271 proceedings, BellSouth has  
12 worked with various electrical manufacturing vendors ("vendors") to determine  
13 the feasibility of implementing additional power options greater than 60 amps  
14 from the BellSouth BDFBs by means of retrofitting the BDFBs that BellSouth  
15 currently have in-service to support larger fuse sizes. As a result, BellSouth now  
16 offers TPL type fuses in 70, 80, 90, and 100 amps from a BellSouth BDFB (not  
17 from the main power board). Although TPL type fuses are larger fuses that were  
18 originally designed for power boards instead of BDFBs, a vendor has been able  
19 to design a field retrofit to its existing BDFB products to replace two (2) TPS fuse  
20 positions with a TPL fuse block. Consequently, BellSouth now offers the 70, 80,  
21 90, and 100 amp TPL type fuses to all ALECs on single redundant power feeds  
22 at the BellSouth BDFB. These additional power options will be deployed in all of  
23 BellSouth's central offices on an as-ordered basis.

24  
25



1 Time-current curves for TPL fuses that are larger than 100 amps indicate the  
2 possibility of an overload condition that can cause the 225-amp circuit breaker to  
3 operate before the TPL fuse would operate. Therefore, to allow the deployment  
4 of a TPL fuse larger than 100 amps would constitute a NEC violation and could  
5 result in the loss of service not only to the ALEC who had originally requested the  
6 100+ amp fuse, but to all of the ALECs being served by the BellSouth BDFB (and  
7 perhaps BellSouth, as well). For this reason, BellSouth cannot support the use  
8 of TPL type fuses larger than 100 amps. As the carrier of last resort, it is  
9 BellSouth's responsibility to protect the integrity of the public switched network,  
10 as well as ensure the safety of all BellSouth and ALEC employees working in and  
11 around its central offices. Thus, BellSouth can only offer ALECs the ability to  
12 order DC power capacity up to 100 amps from a BellSouth BDFB using a single  
13 redundant power feed.

14

15 The ALEC is responsible for installing the power cable between its BDFB and  
16 BellSouth's main power board. BellSouth provisions DC power to an ALEC-  
17 owned BDFB in the same manner in which it provisions DC power to its own  
18 BDFBs in the central office. DC power to all BDFBs, whether owned by  
19 BellSouth or the ALEC, is fed from the main power board using a 225-amp  
20 protection device. This means of obtaining power is used by some ALECs, but is  
21 less common than the first scenario.

22

23 The third option allows the ALEC to install its own BDFB in its collocation space  
24 and request power from BellSouth's BDFB, again in available power increments  
25 that range from 10 amps to 100 amps. In this instance, the ALEC's agent installs

1 power cabling between its own BDFB (located in its collocation space) and  
2 BellSouth's BDFB, enabling the ALEC to connect each piece of its equipment to  
3 its own BDFB for power. This is the least common method of requesting power.  
4 Each ALEC must make its own determination as to which option it wishes to use  
5 for obtaining DC power into its collocation space. As described above, all ALECs  
6 have the ability to obtain small units of DC power (*i.e.*, in as low as 10 amps)  
7 from BellSouth.

8  
9 Prior to the Telecommunications Act of 1996 (the "Act") and the requirement for  
10 the ILECs to allow collocation in their respective central offices, BellSouth  
11 implemented standard equipment configurations or models. In the case of power  
12 boards, the standard configuration consists of a power board fully equipped with  
13 225-amp circuit breakers. This standardization has allowed BellSouth to reduce  
14 its power provisioning intervals by 33%. The ALECs have enjoyed the interval  
15 reductions derived from standardization, which would not have been possible  
16 absent standard circuit breaker sizes.<sup>2</sup>

17

18 **Issue 6A: Should an ILEC's per ampere (amp) rate for the provisioning of DC**  
19 **power to an ALEC's collocation space apply to amps used or fused capacity?**

20

21 Q. WHAT IS BELL SOUTH'S POSITION ON THIS ISSUE?

22

23 A. BellSouth maintains that the per amp charge should apply to the fused capacity  
24 for the equipment an ALEC installs in its collocation space.

---

25 <sup>2</sup> Another benefit of fully equipping the power boards with standard-size circuit breakers (225 amps) is to minimize the impact of any manufacturing shortages, which have occurred in the past when one manufacturer owned the patent for DC circuit breakers.

1 The manner in which BellSouth charges for DC power capacity is based on the  
2 power requirements of the telecommunications equipment being served. Fuse  
3 type protection devices are sized at 1.5 times the anticipated drain to ensure that  
4 the equipment can be operated at its full capacity without operating the protection  
5 device while allowing the protection device to safely clear any fault conditions  
6 (short circuits or overloads) that may occur. For purposes of billing, the recurring  
7 power rate assessed by BellSouth includes a 0.6667 multiplier to take into  
8 account the fact that an ALEC would not normally use the full capacity of the  
9 protection device. In other words, although telecommunications circuits for DC  
10 power are engineered to match the power requirements of the equipment served,  
11 with a fused protection device that is sized at 1.5 times the anticipated load (or  
12 drain), the recurring rate per fused amp is also ratcheted down by a 0.6667  
13 multiplier (which is calculated as 1.0 divided by 1.5) to take into account the fact  
14 that an ALEC does not normally use the full capacity of the protection device  
15 (and therefore, should not be charged for the additional capacity). So, the ALEC  
16 is not paying for any more power capacity than what the equipment requires.

17 Some ALECs have demanded that power billing be based on usage. They cite  
18 the example of commercial AC electric service provided to a home or business.  
19 Key components of the commercial electric utility industry, and its usage-based  
20 billing system, include meters located at the side of a house or business and an  
21 army of meter readers to record usage. Inside a central office, however, there  
22 are no meters attached to individual power circuits from a BDFB, just as there  
23 are no meters on each individual AC outlet in a home or business. Usage based  
24 billing and the measuring system required would result in increased power costs  
25 for the ALECs. Therefore, in BellSouth's view, the metering of central office

1 power to each ALEC's collocation arrangement is not economically feasible for  
2 an ALEC, assuming that the ALEC is engineering its power circuits to match its  
3 equipment demand. In addition, recurring power rates include the power plant  
4 construction cost for components such as batteries and rectifiers. These  
5 components must be sized to satisfy the full power requirements requested by  
6 the ALEC, regardless of actual power usage by the ALEC. Under a usage based  
7 billing system, if the ALEC requested a large amount of power capacity, the ILEC  
8 would be forced to incur a significant expense to provide the requested capacity.  
9 Then, if actual usage were less than what was requested, the ILEC would never  
10 receive adequate compensation for this investment.

11

12 The issue of billing ALECs using fused amps versus actual power drain has  
13 already been addressed by the Commission in Docket No. 000649-TP ("MCI  
14 Arbitration Case"). The Commission released its final ruling in the MCI  
15 Arbitration Case in Order No. PSC-01-0824-FOF-TP on March 30, 2001, on this  
16 very same issue. On Page 126 of this Order, the Commission states:

17


18 We believe that the per ampere rate for the provision of DC power  
19 to WorldCom's collocation space should apply to fused capacity for  
20 two reasons. First, it appears that WorldCom witness Messina  
21 agrees that BellSouth's power plant must be capable of  
22 accommodating 150 percent of the requested amount of power.  
23 However, it appears that witness Messina contends that the fuse  
24 feeding WorldCom's collocation space should be sized at  
25 WorldCom's requested amperage, but the infrastructure behind that

1 space should be capable of carrying 150 percent of the requested  
2 amperage. We find that if BellSouth must construct its overall  
3 power plant to accommodate 150 percent of the aggregate  
4 amperage requested by collocators then it should be compensated  
5 for this level of capacity. Furthermore, both parties believe that it is  
6 a generally accepted power engineering practice to fuse capacity in  
7 excess of the amperage needed.

8  
9 Second, we agree with BellSouth witness Milner that metering  
10 WorldCom's actual usage would be costly and time-consuming.  
11 While specific numbers were not provided, we suspect that the  
12 costs of metering could exceed the difference in costs of applying  
13 the rate to fused capacity versus amperes used. Therefore, **we**  
14 ***find that the per ampere rate for the provision of DC power to***  
15 ***WorldCom's collocation space shall apply to fused capacity.***

16 (Emphasis added)

17

18  Therefore, the Commission has previously determined that the billing of DC  
19 power on a fused amp basis, instead of a per-load basis, is appropriate. The  
20 Alabama, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, and South  
21 Carolina Commissions have taken similar positions.

22

23 **Issue 6B: If power is charged on a per-amp-used basis or on a fused capacity**  
24 **basis, how should the charge be calculated and applied?**

25

1 Q. WHAT IS BELLSOUTH'S POSITION ON THIS ISSUE?

2

3 A. The rate for DC power should be calculated and applied on a per fused amp  
4 basis. As a result, BellSouth would develop the recurring cost for power based  
5 on the assumption that the charge would be applied on a per fused amp basis.  
6 In other words, BellSouth's cost study would account for the difference between  
7 fused capacity and rated capacity using an adjustment factor of .67 (that is, 1 /  
8 1.5). This adjustment factor reflects the relationship between fused and rated  
9 capacities (Fused = 1.5 \* Rated). The average investment per amp and the  
10 average monthly cost per kilowatt hour are both adjusted downward, for billing  
11 purposes, to reflect the application of a per fused amp charge. To develop a per  
12 used amp charge, BellSouth would not apply the adjustment factor to the  
13 investment per amp or the monthly cost per kilowatt hour. This would produce a  
14 per used amp cost. Further discussion on this charge will also be addressed by  
15 BellSouth in its February 4, 2003, filing under issue 9B regarding proper rates.

16

17 To illustrate how an ALEC would be assessed for DC power, let's assume an  
18 ALEC's equipment bay requires 40 amps of power and the ALEC requests a pair  
19 of redundant (Load A and Load B) 60 amp fuses (i.e. the fused amps, which is  
20 1.5 times the anticipated load). The formula for calculating the recurring cost  
21 assuming a per fused amp rate of \$7.80 would be:

22

$$\text{Calculation 1: } (\$7.80 * 60) = \$468.00$$

23

24

25

The equivalent per used amp rate is calculated by multiplying \$7.80 by 1.5, which is \$11.70 (this removes the 0.6667 multiplier used to develop the per fused amp rate). By comparing the total per fused charge to the total per used charge,

1 (\$7.80 x 60 = \$468; \$11.70 x 40 = \$468), it is evident that BellSouth is truly  
2 charging the ALEC for power on a per-load-amp basis. However, for billing  
3 purposes, BellSouth calculates the ALEC's collocation power cost by multiplying  
4 the per-fused-amp rate of \$7.80 by the number of fused amps (60), as shown  
5 above under Calculation 1. While both formulas yield the same result, it is  
6 appropriate to calculate such a charge on a per-fused-amp basis since the fused  
7 amperage is what BellSouth is obligated to provide for the ALEC's use.  
8 BellSouth should not be the party that bears the loss if the ALEC elects not to  
9 utilize the full capacity the ALEC demanded and for which BellSouth had to  
10 provision.


11

12 **Issue 6C: When should an ILEC be allowed to begin billing an ALEC for power?**

13

14 Q. WHAT IS BELLSOUTH'S POSITION ON THIS ISSUE?

15

16 A. Since DC power is assessed by BellSouth as a recurring monthly charge, billing  
17 should begin as stated in BellSouth Witness A. Wayne Gray's Testimony in  
18  regard to Issue 1B. If an ALEC conducts an acceptance walkthrough of the  
19 collocation space within fifteen (15) calendar days of the Space Ready Date,  
20 then the monthly recurring charges will begin on the date that the ALEC accepts  
21 the space ("Space Acceptance Date"). If the ALEC fails to conduct the  
22 acceptance walkthrough within this fifteen calendar day period, the monthly  
23 recurring charges will begin on the Space Ready Date. If the ALEC requests,  
24 and is granted by BellSouth, the right to occupy its collocation space prior to the  
25 Space Ready Date, BellSouth will begin billing the monthly recurring charges on

1 the date the ALEC occupies the space. The ILEC should be allowed to begin  
2 billing an ALEC for power at Space Ready Date. On Space Ready Date,  
3 BellSouth will turn the requested collocation space over to the requesting ALEC.

4  
5 The Space Ready Date for physical collocation is the date that BellSouth finishes  
6 construction in accordance with the requesting ALEC's application and turns  
7 functional space, including adequate power capacity to satisfy the ALEC's  
8 request, over to the requesting ALEC. The Commission ordered standard  
9 recurring power rates in the Florida Covad Arbitration Order in Docket No.  
10 001797-TP. Standard recurring power rates include the power plant  
11 construction costs for components such as batteries and rectifiers. Thus, the  
12 ILEC incurs the cost to provide the batteries and rectifiers at some point prior to  
13 the Space Ready Date to ensure adequate capacity exists to serve the power  
14 demand requested by the ALEC. BellSouth has experienced instances in which  
15 ALECs that requested collocation space and associated power, for which  
16 BellSouth prepared the collocation space and associated power by the ALEC  
17 requested date, delayed physically occupying the space for several months thus  
18 depriving BellSouth a return on the costs it expended at the ALEC's request. In  
19 the case of both space preparation and power construction, BellSouth has  
20 incurred significant up-front expense. BellSouth has a right to reimbursement for  
21 power starting at the date the ALEC accepts the space or on the Space Ready  
22 Date, as specified above.

23

24 **Issue 7: Should an ALEC have the option of an AC power feed to its collocation**  
25 **space?**



1 Q. WHAT IS BELLSOUTH'S POSITION ON THIS ISSUE?

2

3 A. At the ALEC's option, and where the local authority having jurisdiction permits,  
4 BellSouth will provide an AC power source in accordance with the requirements  
5 of the National Electrical Code

6

7 BellSouth already allows the ALEC to order AC power feeds for its collocation  
8 space, both for convenience outlets as well as to power any AC equipment. AC  
9 feeds that serve ALEC equipment are fed from the essential bus, meaning that  
10 they are backed up via the standby AC plant (that is, back-up generators or  
11 alternators). There are separate recurring AC power recurring rates that apply to  
12 these AC feeds. Several ALECs have ordered AC power feeds from BellSouth.

13

14 **Issue 8: What are the responsibilities of the ILEC, if any, when an ALEC requests**  
15 **collocation space at a remote terminal where space is not available or space is**  
16 **nearing exhaustion?**

17

18 Q. WHAT IS BELLSOUTH'S POLICY REGARDING COLLOCATION IN REMOTE  
19 TERMINALS?

20

21 A. BellSouth permits the collocation of any type of equipment necessary for  
22 interconnection to BellSouth's network or for access to unbundled network  
23 elements in the provision of telecommunications services. BellSouth's policy  
24 regarding collocation at DLC remote terminals is this: If sufficient space exists  
25 within the DLC remote terminal, BellSouth will allow the ALEC to collocate its

1 equipment, including Digital Subscriber Line Access Multiplexer ("DSLAM")  
2 equipment, regardless of whether BellSouth has installed its own equipment or  
3 DSLAM at that remote terminal location. Second, if sufficient space does not  
4 exist within the DLC and BellSouth has not installed its own DSLAM equipment  
5 at that DLC remote terminal location, then BellSouth may deny the request and  
6 file a collocation waiver request with this Commission for that DLC remote  
7 terminal site. Third, if sufficient space does not exist within the DLC and  
8 BellSouth has installed its own DSLAM equipment at that DLC remote terminal  
9 location, then BellSouth will take whatever action is required to augment the  
10 space at that DLC remote terminal such that the ALEC can install its own  
11 equipment, including a DSLAM, at that DLC remote terminal. In the unlikely  
12 event that BellSouth is not able to augment the space at that DLC remote  
13 terminal, then BellSouth will provide the ALEC unbundled packet switching at  
14 that DLC remote terminal pursuant to the FCC's requirements. FCC Rule 51.319  
15 (c)(5)

16

17 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

18

19 A. Yes.

20

21

22

23

24

25

1                   BELLSOUTH TELECOMMUNICATIONS, INC.  
2                   REBUTTAL TESTIMONY OF W. KEITH MILNER  
3                   BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION  
4                   DOCKET NOS. 981834-TP and 990321-TP  
5                   JANUARY 21, 2003  
6

7    Q.    STATE YOUR NAME, YOUR BUSINESS ADDRESS, AND YOUR  
8           POSITION WITH BELLSOUTH TELECOMMUNICATIONS, INC.  
9           ("BELLSOUTH").  
10

11   A.    My name is W. Keith Milner. My business address is 675 West Peachtree  
12           Street, Atlanta, Georgia 30375. I am Assistant Vice President -  
13           Interconnection Operations for BellSouth Telecommunications, Inc.  
14           ("BellSouth"). I have served in my present role since February 1996.  
15

16   Q.    ARE YOU THE SAME W. KEITH MILNER WHO EARLIER FILED  
17           DIRECT TESTIMONY IN THIS DOCKET?  
18

19   A.    Yes.  
20

21   Q.    WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?  
22

23   A.    I respond to portions of the direct testimonies of Mr. Jeffrey King on behalf  
24           of AT&T Communications of the Southern States, LLC, and TCG South  
25           Florida, Inc. (collectively referred to as "AT&T") and Mr. Jimmy Davis on

1           behalf of Sprint – Florida, Inc. and Sprint Communications Limited  
2           Partnership (collectively referred to as “Sprint”) with regard to issues 4, 5,  
3           6A, 6B, 6C, 7, and 8.

4

5           **Issue 4: Should the ILEC be required to provide copper entrance facilities**  
6           **within the context of a collocation inside the central office?**

7

8           Q.     ON PAGE 8 OF HIS DIRECT TESTIMONY, MR. KING STATES THAT  
9           ALECS SHOULD BE ALLOWED TO USE COPPER PLANT FOR  
10           COLLOCATION WITHIN THE CENTRAL OFFICE BECAUSE “COPPER  
11           TECHNOLOGY, INCLUDING COPPER ENTRANCE FACILITIES, IS  
12           STILL AN INTEGRAL PART OF THE TELECOMMUNICATIONS  
13           INDUSTRY.” PLEASE RESPOND.

14

15          A.     Mr. King is correct only in the sense that some copper cables currently  
16           enter BellSouth central offices. However, Mr. King fails to acknowledge  
17           that these older copper cables are associated with BellSouth’s loop  
18           distribution facilities rather than interoffice facilities or interconnection  
19           facilities. Entrance facilities are for interconnection trunks, and all of  
20           BellSouth’s interconnection trunk cables entering BellSouth central offices  
21           are provisioned over optical fiber facilities. Furthermore, the FCC rules  
22           regarding an ILEC’s collocation obligations under the Telecommunications  
23           Act of 1996 (the “Act”) state that the ILEC should only accommodate  
24           copper entrance facilities if such interconnection is first ordered by the  
25           state commission. See 47 C.F.R. 51.323 (d)(3). The FCC clearly

1 anticipated that this authority to place non-fiber optic entrance facilities  
2 would be granted by a state commission on a location by location basis.  
3 For any state commission to permit copper entrance facilities universally  
4 would undermine the importance the FCC attributed to this issue and  
5 would be to the detriment of other ALECs desiring to collocate in an office  
6 with limited entrance space available. Neither AT&T nor any other ALEC  
7 should be permitted to place copper entrance facilities in a premises until  
8 this Commission has reviewed the particular circumstances of the  
9 premises, the specific needs of the requesting ALEC at that location, and  
10 has determined that the ALEC's needs override BellSouth's and other  
11 ALEC's concerns, if any, with entrance space availability in those  
12 premises. To my knowledge, no ALEC in BellSouth's nine-state region,  
13 including Florida, has made such a showing to a state Public Service  
14 Commission.

15  
16 **Issue 5: Should an ILEC be required to offer, at a minimum, power in**  
17 **standardized increments? If so, what should the standardized power**  
18 **increments be?**

19  
20 Q. ON PAGE 8 OF HIS DIRECT TESTIMONY, MR. KING SUGGESTS THAT  
21 ILECS SHOULD BE REQUIRED TO PROVISION POWER IN ONE (1)  
22 AMP INCREMENTS AND IN FUSE SIZE INCREMENTS BEGINNING  
23 WITH 5 AMPS TO 225 AMPS AND ABOVE AS AVAILABLE FROM THE  
24 MARKET; AND IF REQUESTED BY AN ALEC, FUSE SIZES OF 70  
25 AMPS OR GREATER SHOULD BE PROVISIONED FROM THE ILEC

1 POWER DISTRIBUTION BOARD. PLEASE COMMENT.

2

3 A. An ALEC may require different quantities of power and as such, the ALEC  
4 has the ability to order fused power in increments as small as 10 amps  
5 and as large as 225 amps, when the ALEC uses combinations of industry  
6 standard fuse size protection devices (*i.e.*, TPS type fuses) from a  
7 BellSouth Battery Distribution Fuse Board ("BDFB"). There are single  
8 industry standard fuse sizes that range from 10 to 60 amps (*i.e.*, BellSouth  
9 uses industry standard 10, 15, 30, 45 and 60 amp fuses). Anything higher  
10 than 60 amps would require the combination of various fuse sizes to  
11 achieve the desired total.

12

13 As to the suggestion for fuse sizes of 70 amps or greater provisioned from  
14 the ILEC power distribution board at the request of the ALEC, as I stated  
15 in my direct testimony in this docket, BellSouth now offers TPL type fuses  
16 in 70, 80, 90, and 100 amps from a BellSouth BDFB (not from the main  
17 power board). Although TPL type fuses are larger fuses that were  
18 originally designed for power boards instead of BDFBs, at least one  
19 vendor has been able to design a field retrofit to its existing BDFB  
20 products to replace two (2) TPS fuse positions with a TPL fuse block.  
21 Consequently, BellSouth now offers the 70, 80, 90, and 100 amp TPL type  
22 fuses to all ALECs on single redundant power feeds at the BellSouth  
23 BDFB. These additional power options will be deployed in all of  
24 BellSouth's central offices on an as-ordered basis.

25

1 As I stated in my direct testimony, BellSouth does not support smaller  
 2 protection devices than 225 amps at the main power board because there  
 3 are inherent standardization and provisioning interval improvements  
 4 associated with the use of 225-amp fused power capacity<sup>1</sup> and this  
 5 complies with specific National Electric Code ("NEC") requirements for  
 6 electrical system coordination (Article 240-12). The NEC requires  
 7 coordination to properly localize a fault condition to restrict outages to the  
 8 equipment affected.

9  
 10 **Issue 6A: Should an ILEC's per ampere (amp) rate for the provisioning of**  
 11 **DC power to an ALEC's collocation space apply to amps used or fused**  
 12 **capacity?**

13  
 14 Q. MR. KING, ON PAGE 9 OF HIS DIRECT TESTIMONY, STATES "THE  
 15 ILECS 'PER AMPERE' POWER RATE SHOULD BE BASED ON THE  
 16 ALEC'S ACTUAL USAGE SUCH AS THE SPECIFIED LOAD OR AMPS  
 17 USED." PLEASE COMMENT.

18  
 19 A. When this Commission issued its ruling in the Florida MCI Arbitration  
 20 Order, FPSC Docket No. 000649-TP, released March 30, 2001, regarding

---

<sup>1</sup> BellSouth's standard size circuit breaker protection device of 225 amps was developed before collocation (in TR73503, circa 1993) based on BellSouth's interpretation of findings from a Telcordia/Bellcore study on arcing in central offices resulting from the Hinsdale incident (*i.e.*, a devastating fire in a Chicago central office). Prior to the Hinsdale incident, BellSouth typically installed standard size circuit breaker protection devices of 225 amps and 400 amps at the main power board. The Telcordia/Bellcore study found that: 1) arcing may occur in central offices, usually due to poor workmanship in H-tap and other connectors and 2) while no protection device will operate 100% of the time due to the physical nature of a DC arc, 225 amp protection devices experience a significantly higher chance of operating properly during an arc than 400 amp or larger protection devices. So BellSouth's 225-amp circuit breaker standard was developed three years before the Act was issued and is an attempt by BellSouth to minimize the potential for fire in its central offices.

1 the proper assessment of power capacity, the Commission ruled in favor  
2 of BellSouth concluding:

3  
4 . . . we agree with BellSouth witness Milner that metering  
5 WorldCom's actual usage would be costly and time consuming.  
6 While specific numbers were not provided, we suspect that the  
7 costs of metering could exceed the difference in costs of applying  
8 the rate to fused capacity versus amperes used. Therefore, we find  
9 that the per ampere rate for the provision of DC power to  
10 WorldCom's collocation space shall apply to fused capacity.<sup>2</sup>

11 Therefore, the Commission has previously determined that the billing of  
12 DC power on a fused amp basis, instead of a per-load basis, is  
13 appropriate. Mr. King has offered nothing new in this regard that should  
14 cause the Commission to reach a conclusion different than in the MCI  
15 Arbitration cited above.

16  
17 Q. MR. DAVIS, ON PAGES 7-8 OF HIS DIRECT TESTIMONY, STATES  
18 "THE MOST FEASIBLE METHOD OF BILLING FOR DC POWER  
19 CONSUMPTION IS TO BILL BASED ON THE AMOUNT OF POWER  
20 THE ALEC DECLARES ON ITS APPLICATION THAT IT NEEDS TO  
21 POWER ITS EQUIPMENT IN THE COLLOCATION SPACE. THIS  
22 APPROACH EQUATES TO BILLING ON THE BASIS OF 'AMPS' USED  
23 WITHOUT THE ADDED COST FOR THE ILEC TO METER OR  
24 OTHERWISE ESTIMATE POWER USAGE ON A MONTHLY BASIS." DO  
25 YOU AGREE WITH THIS APPROACH?

26

---

<sup>2</sup>*Petition by MCI metro Access Transmission Services LLC and MCI WorldCom Communications, Inc. for arbitration of certain terms and conditions of a proposed agreement with BellSouth Telecommunications, Inc. concerning interconnection and resale under the Telecommunications Act of 1996, Order No. PSC-01-0824-FOF-TP at 126, FPSC Docket No. 000649-TP, (rel. Mar. 30, 2001) ("Florida MCI Arbitration Order").*



1 A. No. To use an analogy, this would be the same as if the customer of a  
2 power company, in regard to their monthly bill, said "Trust me, I'll tell you  
3 what my monthly usage will be." This approach would fall far short of  
4 providing an accurate, reasonable, or credible account of usage and  
5 should be rejected. Additionally, because there would be no means of  
6 determining the validity of the ALEC's stated usage, adopting Mr. Davis'  
7 proposal would require the metering that Mr. Davis apparently opposes.

8

9 **Issue 6B: If power is charged on a per-amp-used basis or on a fused**  
10 **capacity basis, how should the charge be calculated and applied?**

11

12 Q. ON PAGE 9 OF HIS DIRECT TESTIMONY, MR. KING STATES THAT  
13 POWER CHARGES SHOULD BE BASED ON ACTUAL USAGE AS  
14 ATTEMPTS TO CHARGE ON A "PER FUSED" BASIS CREATES  
15 OPPORTUNITIES FOR SIGNIFICANT OVER RECOVERY OF THE  
16 ILEC'S TRUE COST. PLEASE COMMENT.

17

18 A. The manner in which BellSouth charges for DC power capacity is based  
19 on the power requirements of the telecommunications equipment being  
20 served. Fuse type protection devices are sized at 1.5 times the  
21 anticipated drain to ensure that the equipment can be operated at its full  
22 capacity without "blowing" the fuse device. However, for purposes of  
23 billing, the recurring power rate assessed by BellSouth includes a 0.67  
24 multiplier (that is, 1.0 divided by 1.5) to take into account the fact that an  
25 ALEC would not normally use the full capacity of the protection device.

1           BellSouth provisions power based on a “per fused amp” basis, but actually  
2           bills the ALECs for power based on usage. Even though BellSouth sizes  
3           the requested power usage at 1.5 times the anticipated drain (or use) by  
4           the ALEC’s equipment, BellSouth then backs down the rate by the 0.67  
5           multiplier, which is used in the calculation of the billing. Thus, there is no  
6           over-recovery as Mr. King suggests.

7  
8           Further, BellSouth provides a redundant power feed defined as a pair of  
9           power feeds, usually designated as A and B feeds, that can carry DC  
10          current individually and simultaneously to power a bay, shelf, or individual  
11          piece of collocation equipment in an ALEC’s collocation space. The  
12          equipment manufacturer designs its equipment such that if there is a  
13          failure on one of the feeds, the other feed will operate the equipment  
14          without the occurrence of a power outage or failure. BellSouth does not  
15          charge the ALEC on the individual amount of power available on each  
16          feed. Instead, BellSouth assesses power based on a redundant power  
17          feed (A and B feed). In other words, BellSouth does not charge ALECs  
18          extra for the redundancy in the power feed.

19  
20       **Issue 6C: When should an ILEC be allowed to begin billing an ALEC for**  
21       **power?**

22  
23       Q.     MR. KING, ON PAGE 11 OF HIS DIRECT TESTIMONY, STATES “AN  
24           ALEC SHOULD BE BILLED FOR POWER ONCE POWER IS BEING  
25           PROVIDED AND USED BY THE ALEC.” DO YOU AGREE?

1 A. No. As stated in my direct testimony, since DC power is assessed by  
2 BellSouth as a recurring monthly charge, and if the ALEC requests, and is  
3 granted by BellSouth, the right to occupy its collocation space prior to the  
4 Space Ready Date, BellSouth begins billing the monthly recurring charges  
5 on the date the ALEC accepts the space. The ILEC should be allowed to  
6 begin billing an ALEC for power at the Space Ready Date. On the Space  
7 Ready Date, BellSouth turns the requested collocation space over to the  
8 requesting ALEC, at which time the ALEC has the capability to begin  
9 using power. At the Space Ready Date, BellSouth has performed work on  
10 the ALEC's behalf for power plant construction and associated  
11 components such as batteries and rectifiers as well as circuit breaker  
12 positions at the main power board.

13  
14 On May 11, 2000, This Commission issued Order No. PSC-00-0941-FOF-  
15 TP requiring BellSouth to respond to applications for physical collocation  
16 within 15 calendar days. This interval was premised upon the use of  
17 standard rates for physical collocation space preparation. BellSouth has  
18 developed such rates reflecting the intervals and requirements contained  
19 in that Order. Pursuant to the Order, on June 26, 2000, BellSouth issued  
20 a Carrier Notification SN91081846 indicating that space preparation will  
21 be billed on a recurring basis using flat rates rather than billing up-front  
22 nonrecurring individual case basis ("ICB") charges. The recurring power  
23 element was modified to include all power-related space preparation as  
24 well as usage. As a result, BellSouth should be allowed to begin  
25 recovering those costs in the form of recurring power rates in accordance

1 with the rate structure as discussed above. To allow otherwise, might  
2 encourage ALECs to “game” the process by requesting that BellSouth  
3 perform work to provide the ALEC DC power but then delay paying  
4 BellSouth for its work simply because the ALEC’s business plans or needs  
5 have changed.

6  
7 **Issue 7: Should an ALEC have the option of an AC power feed to its**  
8 **collocation space?**

9  
10 Q. MR, KING, ON PAGE 11 OF HIS DIRECT TESTIMONY, STATES THAT  
11 AN ALEC SHOULD HAVE THE OPTION OF AN AC POWER FEED TO  
12 ITS COLLOCATION SPACE BECAUSE IT WOULD ENABLE THE ALEC  
13 TO PLACE AC POWERED EQUIPMENT IN ITS COLLOCATION SPACE;  
14 ADDITIONALLY, THE ALEC CAN ALSO CONVERT AC POWER TO DC  
15 POWER AS NECESSARY. PLEASE COMMENT.

16  
17 A. BellSouth already allows an ALEC to order AC power feeds for its  
18 collocation space, both for convenience outlets as well as to power any  
19 AC equipment for testing purposes. However, the convenience outlets are  
20 not for use in converting AC power to DC power for powering the ALEC’s  
21 collocation equipment. BellSouth already provides DC power in its central  
22 offices for collocation to enable the ALECs to power their equipment.  
23 Rectifiers convert AC power from the commercial electric utility to DC  
24 power. Batteries and generators provide back-up DC power in the event  
25 of a loss of AC power from both the commercial electric utility and AC

1 system or from rectifier failure. An ALEC that used AC power would  
2 require that the ALEC provide and maintain its own back-up power supply,  
3 which would have to be located in an area of the central office that meets  
4 strict code requirements for power equipment. The collocation area of the  
5 central office is not an area that would comply with these strict code  
6 requirements. Thus, the installation of rectifiers and/or backup power  
7 equipment is not allowed in typical collocation arrangements.

8  
9 **Issue 8: What are the responsibilities of the ILEC, if any, when an ALEC**  
10 **requests collocation space at a remote terminal where space is not**  
11 **available or space is nearing exhaustion?**

12  
13 Q. ON PAGES 11-12 OF HIS DIRECT TESTIMONY, MR. KING SUGGESTS  
14 THAT ILECS SHOULD BE RESPONSIBLE FOR NOTIFYING ALECS OF  
15 THE REMOTE TERMINAL SITES THAT ARE EXHAUSTED VIA  
16 WEBSITE POSTINGS OR CARRIER NOTIFICATION LETTERS, AS  
17 WELL AS A PLAN OF ACTION AS TO WHEN NEW CONSTRUCTION  
18 OF A REMOTE TERMINAL WILL BE COMPLETED. PLEASE  
19 COMMENT.

20  
21 A. As stated in my direct testimony, BellSouth permits the collocation of any  
22 type of equipment necessary for interconnection to BellSouth's network or  
23 for access to unbundled network elements in the provision of  
24 telecommunications services and will do so in accordance with the  
25 alternatives outlined in my direct testimony in regards to space availability.

1 While this Commission has addressed processes for postings and waivers  
2 for central offices, a requirement that BellSouth notify ALECs every time a  
3 remote terminal site becomes exhausted, particularly when there are over  
4 10,000 remote sites in Florida, compared to over 200 central offices in  
5 Florida, or when new construction of a remote terminal will be completed  
6 is not only impractical but would impose an enormous and costly  
7 administrative burden on BellSouth without significantly increasing the  
8 level of access that ALECs can realize. Further, such administratively and  
9 financially burdensome requirements should not be imposed, especially  
10 given that there are no pending requests for remote site collocation in  
11 Florida. Finally, since BellSouth is not privy to ALECs' plans to collocate  
12 equipment in particular remote terminals, BellSouth cannot determine with  
13 precision where and when space within remote terminals will be  
14 exhausted.

15

16 Q. DOES THIS COMPLETE YOUR REBUTTAL TESTIMONY?

17

18 A. Yes.

1 BY MS. WHITE:

2 Q And you had no exhibits to your rebuttal testimony,  
3 correct?

4 A Correct.

5 Q I would ask that Mr. Milner please give his summary,  
6 then.

7 A Thank you. Good morning, Madam Chair, Commissioners.

8 CHAIRMAN JABER: Good morning.

9 A (Continuing) My testimony addresses unresolved  
10 collocation Issues 4, 5, 6A, 6B, 6C, 7, and 8, and I will  
11 discuss each of those individually. My testimony also responds  
12 to portions of the direct testimony of Mr. King on behalf of  
13 AT&T, and Mr. Davidson on behalf of Sprint.

14 Turning to Issue 4, which deals with copper entrance  
15 facilities. First, the FCC's rules do not require an incumbent  
16 such as BellSouth to allow non-fiberoptic cable to be brought  
17 into incumbent central offices absent a showing by the  
18 requesting party, that is, the ALEC, and approval by the  
19 appropriate state commission.

20 Some ALECs have suggested that they be allowed to  
21 bring copper cable through BellSouth's entrance facilities in  
22 order to interconnect with BellSouth's network. The trend in  
23 telecommunications in the industry is for cables and equipment  
24 to be reduced in size, not increased. Accommodation of ALECs'  
25 requests to use BellSouth entrance facilities to bring new

1 copper cables into BellSouth's central offices would accelerate  
2 the exhaust of entrance facilities at the central offices at an  
3 unacceptable rate compared to the rate at which those  
4 facilities would be consumed using fiberoptic cables.

5 BellSouth requests that this Commission affirm that  
6 consistent with FCC rules in Dockets 96-98 and 91-141,  
7 BellSouth is not required to accommodate requests for  
8 non-fiberoptic facilities unless this Commission decides in a  
9 particular case that it is necessary to do so.

10 Turning to Issue 5, which deals with power and  
11 standard increments, the question raised is what are the  
12 standardized power increments to be. First, BellSouth has  
13 three options that it offers ALECs. The options allow  
14 provision of power to collocation arrangements in a variety of  
15 power increments.

16 First, an ALEC may request power from BellSouth's  
17 battery distribution fuse bay, or BDFB as we call it, in power  
18 increments that range from as few as 10 amps to as many as 100  
19 amps.

20 Secondly, the ALEC may install its own BDFB in its  
21 collocation space and acquire power directly from BellSouth's  
22 main power board. In this configuration, the ALEC would  
23 acquire power in standardized increments of 225 amps.

24 And then the third option is that the ALEC may  
25 install its own BDFB, but rather than connecting that BDFB to



1 the power board, it connects it instead to a BellSouth BDFB.  
2 And if it does that, it can acquire power in the ranges of as  
3 little as 10 to as many as 100 amps. So BellSouth believes it  
4 has a variety of powering options available to ALECs already.

5 Turning to Issue 6A. It is BellSouth's belief that  
6 the per amp charge assessed to ALECs should be on the basis of  
7 fused capacity for the equipment that the ALEC installs. You  
8 have already looked at this issue once in an MCI arbitration  
9 case, we request that you affirm that decision here.

10 Some ALECs have requested that power billing be based  
11 on the actual usage. They cite the example of commercial power  
12 usage to businesses or homes. There are key differences.  
13 First of all, you know that at your house there is a meter that  
14 measures the total amount of power that you consume. Inside a  
15 central office, though, there are not separate meters that  
16 measure the usage or the power consumed on individual feeds,  
17 just as inside your house there are not separate power meters  
18 for the bedroom versus the kitchen. Usage based on billing,  
19 the measuring system and the billing system that we use would  
20 have to be changed in order to accommodate actual measurement  
21 of power used. And in BellSouth's view, that is not economical  
22 compared to the methods we use for calculating those charges  
23 today.

24 Turning to Issue 6B. And this asks the question if  
25 power is charged on a per amp basis or on a fused basis how

1 should the charge be calculated. Well, BellSouth does believe  
2 it should be on the fused basis, as I just discussed, and then  
3 for the billing purpose, we use a factor of 1.5 which is in our  
4 view the relationship between the fused capacity and the actual  
5 used capacity.

6           And so in terms of rendering the bill, we take the  
7 amount of fused capacity, you can either divide it by 1.5 or  
8 multiply it times .667 and you get the same mathematical  
9 answer, but in either event that is how we propose that the  
10 actual usage or the bills for usage consumed be rendered.

11           Issue 6C asks the question when should an ILEC be  
12 allowed to begin billing an ALEC for power. And our position  
13 here is pretty much as Mr. Gray described for Issue B for other  
14 types of billing for collocation; that is, if the ALEC  
15 participates in a walk-through test within 15 days of the space  
16 ready date, then the date that we commence billing should be on  
17 the date that they accepted it. If they don't want a  
18 walk-through, then the billing should commence on the space  
19 ready date. In some cases we provide access to the space early  
20 where that is possible, and if the ALEC occupies the space  
21 earlier than the space ready date, then we would expect to be  
22 paid, or would expect to commence billing on that earlier date.

23           Issue 7 asks the question should ALECs have the  
24 option of having an AC power feed to the collocation space.  
25 BellSouth's position is that if an ALEC wants that and where

1 the local authority allows such a thing, we don't have a  
2 problem with it so long as that configuration is done meeting  
3 the requirements of the National Electrical Code. In fact,  
4 BellSouth already provides AC feeds to collocation. We do that  
5 for temporary use of test equipment, lighting, that sort of  
6 thing.

7           It is not -- our belief is rather that those AC feeds  
8 are there for those purposes rather than for providing the ALEC  
9 an opportunity to convert the AC to DC since most of the  
10 equipment does run off of DC. Our belief is based on the fact  
11 that we provide DC to the collocation arrangement. The backup  
12 systems, such as the batteries and the generators are meant to  
13 provide DC power, not AC power. But if the ALEC wants an AC  
14 system in its collocation arrangement and it can do so  
15 consistent with the code requirements, BellSouth doesn't have a  
16 quarrel with that.

17           And then, finally, the last issue I address is Issue  
18 8, and it deals with what BellSouth's responsibilities are when  
19 an ALEC requests collocation in a remote terminal. BellSouth's  
20 policy is this: If sufficient space exists within the remote  
21 terminal, then the ALEC can collocate its equipment including  
22 things such as digital subscriber line access multiplexers or  
23 DSLAMs regardless of whether BellSouth has installed its own  
24 DSLAM at that remote terminal or not.

25           Second, if sufficient space does not exist within

1 that remote terminal, and BellSouth has not installed its own  
2 DSLAM, then BellSouth would file a waiver with this Commission  
3 as it would for central office exhaust.

4 And, third, if sufficient space does not exist, and  
5 BellSouth has installed its DSLAM, first, BellSouth will do  
6 whatever it takes to make space available. In the unlikely  
7 event that BellSouth cannot make space, then according to FCC  
8 rules, BellSouth would provide unbundled packet switching to  
9 the ALEC at that location.

10 Thank you. That concludes my summary.

11 CHAIRMAN JABER: Mr. Feil.

12 MR. FEIL: With your permission, Madam Chairman, Mr.  
13 Watkins asked to go first, and his questions may eliminate some  
14 of mine.

15 CHAIRMAN JABER: And, Ms. White, I jumped the gun.  
16 You tender the witness for cross, right?

17 MS. WHITE: I just wanted to say it.

18 CHAIRMAN JABER: I know. I won't take the  
19 opportunity away from you.

20 Mr. Watkins.

21 MR. WATKINS: Thank you, Madam Chairman.

22 CROSS EXAMINATION

23 BY MR. WATKINS:

24 Q Good morning, Mr. Milner. My name is Gene Watkins  
25 with Covad Communications.

1 A Good morning, sir.

2 Q We've talked before.

3 A We have. Good morning.

4 Q Let me just run through the issues that you have come  
5 here to testify about today. On Issue Number 5, should an ILEC  
6 be required to offer at a minimum power in Standard S  
7 increments, it is BellSouth's position that it should be  
8 required at most to offer it in increments of 10 amps, is that  
9 correct?

10 A Yes.

11 Q Is there anything technically impossible or not  
12 feasible about offering it in 5-amp increments?

13 A No, except that the smallest fuse size that BellSouth  
14 generally uses is a 10 amp fuse. There are smaller sized amps.  
15 But there is not a technical reason for that. I think it is  
16 one of practicality.

17 Q If I cut you off, please let me know, if you pause  
18 and I start asking another question.

19 As far as getting an amp -- I mean, a fuse that has  
20 increments of five amps, though, that is just going down to the  
21 electrical store, isn't it?

22 A Yes, I agree there are 5-amp fuses.

23 Q With regard to Issue 4, should an ILEC be required to  
24 provide copper entrance facilities in the context of  
25 collocation inside a central office, you would agree that

1 copper entrance facilities are necessary for DSL, isn't that  
2 right?

3 A Well, yes, copper cables are used for DSL. BellSouth  
4 historically has used copper cables in its outside plant  
5 design. Going forward BellSouth does not place new copper  
6 cables in its entrance facilities, but, yes, DSL, digital  
7 subscriber line service does require an all-copper loop.

8 Q Okay. That gets us to Issue 6A. Should an ILEC per  
9 ampere (amp) rate for the provisioning of DC power to a CLEC's  
10 collocation space apply to amps used or fused capacity? It is  
11 BellSouth's position that it should be based on fused capacity,  
12 is that correct?

13 A Yes.

14 Q And it is BellSouth's position or understanding that  
15 Covad Communications does not actually use the fused amount  
16 that it requests, it used something less than that, at most  
17 what it requests. And you actually multiply what you charge so  
18 that it comes -- the actual, the rate comes down by a third to  
19 recognize that it is fused for far more than we actually could  
20 use, is that correct?

21 A You're correct. I hate to use analogies because  
22 there is always a flaw in them, but the analogy is the wiring  
23 in your house. When the electrician came, he or she provided  
24 wire of a certain gauge in the kitchen to the stove that was  
25 larger than to the bathroom. I will call all of that

1 infrastructure. And so all of those things are generally sized  
2 based on the notion that there will be moments, very small  
3 moments in time where the actual power used or whatever will be  
4 larger than the appliance, the stove, for example, might  
5 ordinarily operate at. So to prevent fires, you size the gauge  
6 of the wire larger than what you really think it is going to  
7 operate at most of the time. So the history that BellSouth has  
8 experienced is that that ratio generally is one and a half  
9 times the run rate, the steady state load that the device  
10 creates.

11 Q Sure. There is nothing nefarious about asking people  
12 to fuse more than they think they are going to be drawing?

13 A I'm sorry?

14 Q There is nothing nefarious about asking us to fuse at  
15 one and a half times, that is perfectly fine.

16 A No, we think that makes sense. We think it provides  
17 a safe working environment.

18 Q To work within the analogy of the house, so that we  
19 can get a good idea about what we are being charged as CLECs,  
20 if Florida Power and Light went down to your fuse box and  
21 counted up the number of fuses that you had, they would be  
22 charging you at 100 percent of the usage of all of those fuses,  
23 and then dividing by -- knocking that by a third and then  
24 charging you the standard power rate for that, to analogize  
25 that to what we are paying in a collocation arrangement, is

1 that right?

2 A Well, not exactly. If I turned on all the appliances  
3 in my house and they ran continuously at the same rate and  
4 there were no peaks or valleys in their demand, and if all of  
5 that had been done, you know, the way I have described, then if  
6 they counted up the fused capacity in my circuit breaker box,  
7 and then measured the load on all of those leads, they would  
8 find that there was a relationship of one-and-a-half to one.

9 But, you know, the difference or the analogy starts  
10 to break down in that typically devices in the central office  
11 are not turned on and off during the day. The requirements do  
12 change over time as, you know, plug-in cards are added to  
13 existing equipment which may cause there to be a change in the  
14 amount of power drawn. So, again, I hate to analogize, because  
15 the analogy starts to break down.

16 But, yes, the long answer to your question, if all of  
17 those things had been equal, I had turned on all the appliances  
18 and they ran the way I thought they would, then that is the  
19 relationship you would expect to see.

20 Q Do you have your direct testimony handy?

21 A Yes, sir.

22 Q Do you mind turning to Page 12 of your direct  
23 testimony?

24 A Okay, I'm there.

25 Q At Lines 7 to 9 and again at 13 to 14, you point out



1 that BellSouth multiplies the fused capacity times the per amp  
2 rate and then multiplies by .6667 to take into account the fact  
3 that the ALEC would not normally use the full capacity for the  
4 protection device?

5 A Correct.

6 Q That's what we have been talking about?

7 A Yes. I'm sorry, yes. I didn't mean to cut you off.

8 Q If you look down at Lines 15 to 16, it says so the  
9 ALEC is not paying for any more power capacity than what the  
10 equipment requires. That testimony has some assumptions built  
11 into it, doesn't it?

12 A Of course.

13 Q One of the assumptions that that testimony has built  
14 into it is that the network that we built when we request  
15 collocation space is for actual usage, isn't it? That we are  
16 going to have all the equipment in that collocation space  
17 drawing a total of the amount of power we ask for?

18 A That is one of the assumptions, yes. And BellSouth  
19 builds a power plant to accommodate what the ALEC says it  
20 needs, yes.

21 Q With regards to the building of telecommunication  
22 networks, is that a fair assumption or is that an assumption  
23 that BellSouth uses when it builds its networks?

24 A I believe it is a fair assumption for this reason:  
25 Just as when the electrician, you know, wires that house, he or

1 she wires it the way you requested it to be done. Now, later  
2 on if you are the electrician and you wire my house with  
3 oversized power feeds and I decide never to use that, or let's  
4 say I never used that, it is still fair in that the electrician  
5 was paid for the work that he or she did. The breakdown may  
6 come in the way the bill comes from Florida Power and Light or  
7 Georgia Power for how much AC power was actually consumed than  
8 what I paid for. But in terms of the infrastructure, I think  
9 it is appropriate.

10 Q When BellSouth decides that it is going to augment or  
11 build additions to its network, does it build for the actual  
12 demand at that time or does it build out for anticipated  
13 demand?

14 A It depends on which device you are referring to.  
15 There are batteries, there are rectifiers, there are power  
16 bars. You know, it all depends. So some of those are built  
17 for the ultimate size of the power plant, the power bars, the  
18 shunts, those sorts of things. Other devices, the batteries,  
19 the rectifiers are built in smaller increments recognizing the  
20 amount of steady state load that we think will be used.

21 Q BellSouth does not build a -- when they are adding  
22 onto their network, they do not build a network for the  
23 existing actual usage, they build for the anticipated demand  
24 because it is expensive to augment and you can't have customers  
25 coming to you saying I would like that service and you saying,

1 wait a minute, I've got to augment my network to serve you, can  
2 you hold on a few months. Isn't that right?

3 A That is only partially right. Let me try my previous  
4 answer again, maybe I wasn't clear. When we say said power  
5 systems, there are lots of different elements of that. Let's  
6 think about one of those things being a fuse in one power feed,  
7 another being the backup generator. Obviously, you know, big  
8 ticket items such as generators, you obviously don't want to  
9 say, I'm sorry, customer, I can't provide you phone service  
10 because I need to get a bigger generator to put on the roof.  
11 So you size that device for the ultimate size of the power  
12 plant.

13 Other pieces of the plant are provided in smaller  
14 increments. And so to your question, that part of your answer  
15 is yes, some devices are sort of sized, you know, in smaller  
16 time horizons than others. So the bigger ticket the item, the  
17 more likely it is that that item is going to be provided for  
18 the ultimate capacity of the power system.

19 CHAIRMAN JABER: Mr. Milner, I think this is the  
20 point that Mr. Watkins is trying to make. If not, I'm going to  
21 give you an opportunity to clarify. But at some point you must  
22 do projections to anticipate demand and you must look at  
23 economies of scale and you compare costs of putting in  
24 infrastructure today. This is for your own needs today versus  
25 what it might cost you a year from now. Is it fair for me to

1 think that all of that goes into your determination on the size  
2 of the generator, how many generators, the size of your CO,  
3 what you put in your CO?

4 THE WITNESS: Well, certainly, yes. Yes, we do  
5 forecasts of what power we are consuming now. We also try, to  
6 the best of our knowledge, to include the ALEC's requirements.  
7 And even more nebulous, to the extent that we can forecast what  
8 devices we are going to use in the future compared to what  
9 devices we use now and how that changes, we factor that in as  
10 well.

11 CHAIRMAN JABER: And am I correct in assuming you  
12 also look at labor costs and costs of putting -- actually  
13 placing the infrastructure in today versus a year from now?

14 THE WITNESS: Yes, absolutely. Our planners look out  
15 at a planning horizon, you know, sometimes as few as one or two  
16 years to as much as ten years. Other factors such as whether  
17 building additions are even possible in a given location, when  
18 those building additions are going to be required to  
19 accommodate new switching equipment, let's say, those are all  
20 triggers for our re-evaluation of the power plant and its  
21 efficiency to carry us into the future.

22 CHAIRMAN JABER: And is it also fair for me to  
23 assume, without getting into the costs, I have had my share of  
24 cost discussions in these cases, I am not interested in that,  
25 but is it fair for me to assume that the costs may actually

1 cause you to overbuild in some areas? And, personally I think  
2 that is responsible. I think to the degree that costs are  
3 cheaper today than it would be a year from now, I would be  
4 disappointed if you didn't take that into account. But is it  
5 fair for me to assume that costs may drive you to overbuild in  
6 certain areas?

7 THE WITNESS: Yes. I mean, if our anticipation is  
8 that a device is going to cost more in the future than it does  
9 now, we would be foolish not to take advantage of that, but  
10 balanced against the time value of money and how long is that  
11 investment going to sit there and we would not earn on it. But  
12 a fair conclusion to draw is that we would consider all of  
13 those things and hopefully make the best choice as to the best  
14 use of our money.

15 CHAIRMAN JABER: Mr. Watkins.

16 BY MR. WATKINS:

17 Q Mr. Milner, would it surprise you that Covad requests  
18 the amount of power when it builds a collocation space that it  
19 expects it may need 18 months out?

20 A That would not surprise me, no.

21 Q If we are requesting a certain amount of power in a  
22 collocation space for that anticipated demand that we do not  
23 have at the day the collocation space opens, does it surprise  
24 you that we are not actually using that fully requested amount  
25 of power?

1           A     Well, I guess my quarrel is with your use of the word  
2 using. You are using -- let me go back and maybe we can create  
3 an example here. Let's say that Covad accurately forecast its  
4 needs 18 months out, and let's say that was for 100 amps. And  
5 BellSouth builds a power distribution network that provides 100  
6 amps to Covad's collocation arrangement. On day one, you know,  
7 it is certainly plausible that Covad would not have all the  
8 equipment in its collocations arrangement to demand and use 100  
9 amps of power. But your question was does Covad use that  
10 investment. Yes, it does. BellSouth provided it at Covad's  
11 request. So in that sense, yes, BellSouth provided something.  
12 You are not using the ultimate capacity of that infrastructure,  
13 but you are using the infrastructure that you asked for.

14           Q     Well, let's talk about real quickly the physics of  
15 electricity. If I do not draw the electricity, it does not  
16 flow through the wires, isn't that right?

17           A     Certainly.

18           Q     So in terms of whether BellSouth is incurring the  
19 cost of the electricity that it is charging us for, until we  
20 draw it, BellSouth is not incurring the cost of the electricity  
21 itself. I understand the batteries and the rectifiers you have  
22 incurred some cost for.

23           A     I would agree with that to a certain extent. As long  
24 as we can carefully separate infrastructure and how that is  
25 going to -- how the costs of that will be recovered from the

1 amount of commercial power that BellSouth might buy from  
2 Florida Power, then, yes, I agree with you. To the extent that  
3 you start melding all of those things together into one monthly  
4 rate and that that rate is paid as a recurring charge, that is  
5 where the difficulty comes in.

6 COMMISSIONER DAVIDSON: I have a question following  
7 up on the Chairman's question and this line of questioning.  
8 Does BellSouth separate out infrastructure cost from actual  
9 power used cost?

10 THE WITNESS: Well, I'm not a cost witness, so I  
11 can't give you the precise answer perhaps you are looking for,  
12 but the answer is generally yes. The recurring rate is a  
13 combination of both the infrastructure items and the  
14 amortization of those fixed assets along with an amount to  
15 recover our costs of being billed from Florida Power and Light,  
16 for example.

17 COMMISSIONER DAVIDSON: And that amount, BellSouth is  
18 recovering their actual cost?

19 THE WITNESS: On the part that we are billed from  
20 Florida Power and Light, yes. I mean, our intent is to pass  
21 that charge on directly.

22 COMMISSIONER DAVIDSON: Thank you.

23 BY MR. WATKINS:

24 Q Mr. Milner, you have in front of you a little chart  
25 here that we are going to just talk about in hypothetical

1 terms. There is 32 Miami collocations identified in there by  
2 CILLI code. The two first rows of numbers are the dual feeds  
3 going into those collocations. I just want you to assume these  
4 facts for the purpose of the questions here.

5 Totalling the total amps used in the third row of  
6 numbers, the price currently per fused amp is that 7.80 charge.  
7 The fused amps are the row of mostly 60s. If you multiply the  
8 7.8 times the number of fused amps delivered and then divide by  
9 or multiply times .6667 you arrive at the total monthly  
10 recurring charge for power. If you multiply the total amps  
11 used for feed times 11.70, which I believe in your testimony  
12 11.70 is the appropriate price for per used amp charge, is that  
13 correct?

14 A Yes, correct.

15 Q I just want to make sure I multiplied by the right  
16 number.

17 A Right.

18 Q I'm no good at math. So 11.70 times the total amps  
19 used for feed gives you the number on the far right. And does  
20 it surprise you that Covad has requested more available power  
21 than it was using at the time hypothetically that these  
22 readings were taken?

23 A That does not surprise me, no.

24 Q Indeed, if Covad's line count in Florida has  
25 increased 51 percent so far this year, it was a wise thing to



1 do for Covad to actually ask for more power than it was  
2 actually using at the time so that it didn't have to turn away  
3 those customers that would not have been serviceable at an  
4 actual power usage rate had we asked for power at the actual  
5 amount we were using at the time we set up these collo spaces?

6 A Well, I think the root of your question was was it  
7 wise for Covad to do it this way. Since I'm not privy to, you  
8 know, what interest rates Covad pays for money it borrows and  
9 all those things, I can't say with precision whether that was  
10 the wisest thing to do or not. To know with precision, I would  
11 have to see, you know, what all your decision inputs were. How  
12 often you -- what rates you pay for equipment from your own  
13 vendors, what rate you can borrow money at and that sort of  
14 thing.

15 I don't quarrel with the general notion that  
16 equipment is provided in increments or in increments that will  
17 span a certain interval so two goods things happen. One is you  
18 are not in there constantly tearing up things and running the  
19 risk of disrupting service, and that you are minimizing, you  
20 know, your costs to the extent you can by buying in larger  
21 scale. I don't quarrel with either of those things.

22 Q And indeed if we ordered power at actual amounts that  
23 we were using at the time and had the need to augment, we would  
24 have to file a subsequent application with BellSouth to add  
25 that, you know, bump that fuse up another ten amps, isn't that

1 right?

2 A Well, sure it would be. In exactly that same way  
3 that if I decided to hire an electrician and I want the minimum  
4 sized power feeds, you know, and later on I decide I am going  
5 to use larger appliances or I want more air conditioning and  
6 that I have to have that wiring augmented, you know, I am  
7 deciding, you know, or the decision is do I minimize my up  
8 front payment and then absorb that charge later on or am I  
9 better over time to have, you know, bought the larger, you  
10 know, power feeds initially and not incurred that second. And  
11 so it all gets back to the time value of money and what I paid,  
12 what I am going to pay in the future.

13 Q Indeed, if I choose to augment a collocation space to  
14 increase the available power for equipment that I am going to  
15 need immediately, what is the normal time period that it would  
16 take BellSouth to be able to provision an increase in  
17 collocation power, do you know?

18 A I don't know. Perhaps Mr. Gray is a lot closer to  
19 that. We are getting better and better. And I would say, you  
20 know, in a good situation where large rearrangements of power  
21 plants were not required, that is new backup generators didn't  
22 have to be installed, I would image those things could be done  
23 somewhere between 30 and 90 days.

24 Q So given the time intervals to augment and the \$2,236  
25 to just apply to augment that BellSouth wants per collocation

1 space, it is a wise decision by Covad to ask for more power  
2 than is actually using at the time, isn't that right?

3 A Again, you have asked your question a different way.  
4 I will try to answer in the same way, and that is what is best  
5 for Covad is arrived at by looking at, you know, what money you  
6 would have to borrow, where you would acquire that money from,  
7 what the carrying charges on the money would be, how long you  
8 would expect the investment to be idle versus when it is used,  
9 all of those things. So I can't sit here and decide what is  
10 wise or not for Covad.

11 CHAIRMAN JABER: Mr. Milner, I agree with you.  
12 Obviously to put yourself in the business decision that Covad  
13 might have made is just probably not appropriate and it calls  
14 for speculation. But let me pose the question to you this way  
15 as a decision-maker. The same questions I posed to you I think  
16 I should hold the CLECs to the same standard. While I would  
17 expect a company such as yours to act responsibly by thinking  
18 ahead, looking at projections, determining what your costs  
19 should be and making the business decision of whether to  
20 install a certain infrastructure and the size of the  
21 infrastructure today versus a year from now, I should hold the  
22 CLECs to the same standard. Don't you agree with that?

23 THE WITNESS: Oh, absolutely I do.

24 CHAIRMAN JABER: So if the CLECs have asked for a  
25 certain capacity because they have looked at projections and

1 demand and cost characteristics, that is a good thing, that is  
2 not a bad thing.

3 THE WITNESS: That is not a bad thing at all.  
4 BellSouth's quarrel is only when an ALEC asks for one thing,  
5 their business plans don't pan out the way they thought, and  
6 then said, you know what, I have got way too much power  
7 equipment. You put way too much stuff in here. I really only  
8 want to pay you for the lesser amount that I am actually  
9 consuming. That is my quarrel.

10 CHAIRMAN JABER: Right. And that is my final  
11 question. I'm trying to bring focus back to this issue, and I  
12 want you to help me get there. It seems to me the issue was  
13 not how much capacity they have asked for, or what went into  
14 their business decision, but how much you should assess them  
15 for that capacity and holding their feet to the fire in terms  
16 of the use of the capacity.

17 What kinds of principles should I be looking at in  
18 making that decision is my first question; and the second  
19 question is what have you done today -- help me understand what  
20 you have done today in terms of interconnection agreements when  
21 these issues have come up? Because I know you must have  
22 agreements already in place on this very issue. You mentioned  
23 MCI, I think it was you in your summary.

24 THE WITNESS: Yes.

25 CHAIRMAN JABER: So those are the two questions.

1 What should I be looking at in terms of principles for what you  
2 can assess them in terms of charges and holding their feet to  
3 the fire; and the second question is help me understand what is  
4 in place right now.

5 THE WITNESS: Okay. Let me take the first part  
6 first. As a public policymaker, I think your duty is to, in  
7 your words, figure out how to hold their feet to the fire when  
8 BellSouth takes an action that is directly related to their  
9 original request. And I'm not saying that ALECs can predict  
10 the future with precision anymore than BellSouth can. Neither  
11 of us can.

12 So the question then gets to be what happens when a  
13 company's business plans don't pan out exactly the way they  
14 thought. Well, the electrician certainly wants to be paid for  
15 wiring your house. But then the question gets to be is some or  
16 all of that transferable to another entity, in this context  
17 another ALEC that has collocation, or not? If the answer is  
18 yes, some of those things can be reused, then that would argue  
19 for a more lenient, you know, set of requirements, less holding  
20 of the feet to the fire than if those assets are not  
21 transferable. You know, a wire that runs from here to one  
22 collocation arrangement if it is not used for that, it is not  
23 useful for anything else. So to the extent that things are  
24 dedicated to one ALEC and they don't use those, in my opinion  
25 they should have to pay for them anyway.

1           CHAIRMAN JABER: I have to tell you this smacks of a  
2 water regulatory concept called used and useful, and I just --  
3 your comment sort of sends chills up my spine as I start to  
4 make analogies to used and useful, because it is a regulatory  
5 concept, not a deregulatory concept. Saying that, is there a  
6 way to set up a pricing structure that you can live with that  
7 has an up front charge for what is requested only?

8           THE WITNESS: Absolutely.

9           CHAIRMAN JABER: Okay. And then whether they use and  
10 power flows through it or not is their problem, not yours. But  
11 you have collected the charge and to the degree there is gaming  
12 or irresponsible CLEC activity, then that charge acts as a  
13 disincentive.

14           THE WITNESS: Absolutely. And here is how I think  
15 you might uncouple those two things. And, again, in my very  
16 bad analogy, the electrician should be paid for what he or she  
17 wired into your house. The breaker box, the wires, the circuit  
18 breakers themselves. All of those things, that is the  
19 infrastructure. If ALECs want meters on their equipment to  
20 figure out how much actual power was consumed, that's fine. I  
21 mean, I think it is expensive. I wonder if the cost savings,  
22 you know, actually will pan out or not, but be that as it may.

23           If that is what they want, if they want meters on  
24 each individual feed and they are willing to pay meter readers  
25 and change the billing process so that is all worked into

1 there, that is fine so long as we uncouple what I provide --  
2 what BellSouth provides as infrastructure and that I am able to  
3 recover, you know, not only when they make good decisions, but  
4 when they make bad decisions from the actual power that I buy  
5 from Florida Power and Light and pass on to them.

6           So if we have got that uncoupled, I don't have a  
7 problem with that, and I think that does go a ways toward  
8 preventing any gaming of the process by an ALEC that might say,  
9 you know, I'm not really sure, but if I don't -- I'm not sure  
10 if the answer is 50 amps or 500 amps, let me ask for 500 and if  
11 I don't use it that will be on BellSouth's ticket, not mine.  
12 So you can eliminate a lot of that gaming potential by saying  
13 whatever you order and is installed for you in terms of  
14 infrastructure you are going to pay for directly. And by  
15 directly I mean that may be as nonrecurring, or you might work  
16 out some formula for how that is amortized and recovered  
17 monthly. But as long as --

18           CHAIRMAN JABER: But a one-time fee for that 500 amps  
19 you would not object to. And maybe it is a payment plan or  
20 whatever that you accommodate in terms of billing, but you  
21 would not object to a one-time fee. And if they use it, great.  
22 If they don't use it, that is fine, too, because you have  
23 recovered what you believe your expenses are.

24           THE WITNESS: Absolutely. And you may recall that at  
25 one time that was BellSouth's posture that all of this

1 infrastructure be recovered in the nonrecurring. Over time  
2 some commissions decided that that economically was a big  
3 hurdle for new entrants and so those charges would be recovered  
4 over time in the recurring. But we certainly would not be  
5 opposed to being paid up front for that infrastructure in one  
6 lump, or as it is now with recurring payments made against it.

7 CHAIRMAN JABER: And then my second question related  
8 to what you have in place today.

9 THE WITNESS: I'm sorry. Oh, okay. I'm sorry. By  
10 and large, you know, I don't recall a whole lot of complaint  
11 cases that have breached state commissions or even the FCC  
12 about power. There are some notable ones. And I will try to  
13 be fair and present both sides of this, but one is with a  
14 company called NewSouth. NewSouth took a power feed directly  
15 from the power distribution board in 225 amps.

16 Later they discovered they didn't need nearly so much  
17 power, and so we are in a quarrel over, you know, do we get --  
18 do we, BellSouth, get to recover the full cost of that 225-amp  
19 feed or, you know, did we sell them a bill of goods somehow and  
20 they should only pay for the amount they actually use. So that  
21 is the sort of dispute that has arisen is where there is a  
22 difference between, you know, what an ALEC thought its demands  
23 were going to be and what actually materialized some time  
24 later. But by and large there has not been a whole lot of  
25 complaints. I have been involved in most or all of the ones



1 that BellSouth has been involved in, there just haven't been  
2 that many.

3 CHAIRMAN JABER: Thank you. Mr. Watkins, I  
4 interrupted you.

5 COMMISSIONER DAVIDSON: And, Chairman, I am going to  
6 continue your interruption. I have a follow-up to your  
7 question.

8 CHAIRMAN JABER: Commissioner Davidson.

9 COMMISSIONER DAVIDSON: Mr. Milner, I had asked you  
10 early on could you separate out your fixed costs from power  
11 costs and you had answered yes. Is BellSouth doing that now in  
12 its billing?

13 THE WITNESS: Well, in a complicated way, yes, we  
14 are. In other words, the --

15 COMMISSIONER DAVIDSON: Well, simply it, if you  
16 could, for me. I mean, how are you all separating out billing  
17 for power versus billing for say what the electrician does at  
18 the outset?

19 THE WITNESS: Well, all of those are different, let  
20 me call them, line items in the way that all of those power  
21 charges are calculated. Generally, all of the charges, whether  
22 for infrastructure or for the power company bills, are all  
23 recovered on a monthly basis, that is in the recurring part.  
24 So there are different parts of those recurring bills that go  
25 towards infrastructure than for the amount of cost per amp or

1 kilowatt hour actually that we have to pay the power company.

2 COMMISSIONER DAVIDSON: In BellSouth's experience,  
3 can you give me examples of instances in which BellSouth claims  
4 that CLECs have not wanted to pay for what you are calling  
5 infrastructure?

6 THE WITNESS: Do you mean court cases, or do you mean  
7 --

8 COMMISSIONER DAVIDSON: No, I'm trying to get some  
9 instances. I mean, I'm trying to figure out what the dispute  
10 is here. And we have talked to about, you know, CLECs meeting  
11 their obligations and BellSouth meeting its obligations. But I  
12 want to understand. Are there examples where CLECs have said  
13 we are not supposed to pay for that and where BellSouth would  
14 claim that is an infrastructure item specifically requested by  
15 a CLEC that they should pay for.

16 THE WITNESS: Well, let me say first that the number  
17 of legal disputes and complaint cases have been fairly small.  
18 The only one that comes to my mind is the NewSouth complaint  
19 that has been up in the air for sometime.

20 COMMISSIONER DAVIDSON: And you don't have to name  
21 names, but give me an example. Yes, we have a CLEC that did  
22 not want to pay for what this electrician did specifically in  
23 request to that. I am just not understanding what the scope of  
24 this dispute is on the infrastructure side.

25 THE WITNESS: Okay. Well, the disagreements in my

1 experience have always been in the context of some rate setting  
2 proceeding such as this one. Either in a cost docket or a  
3 collocation case where you, the commissions, are asked to  
4 decide what should be the right formula for assessing these  
5 charges. After your decisions, there is usually not a whole  
6 lot of disputes, you know, complaint cases that go back before  
7 a commission.

8           COMMISSIONER DAVIDSON: Well, there have been  
9 collocation issues -- I'm sorry to interrupt -- as I understand  
10 it that have developed for years now since the '96 Act came  
11 about, and as commissions have continuously implemented the  
12 Act. Has BellSouth had a bad experience at all with -- and I'm  
13 not trying to suggest that they have, but I'm trying to  
14 understand what -- on the infrastructure side have you had  
15 CLECs that are simply not paying or saying that they don't have  
16 to pay for infrastructure requested as part of a collocation  
17 agreement.

18           THE WITNESS: No, there have not. You know, I'm not  
19 saying that any of the ALECs here or elsewhere in BellSouth's  
20 region have tried to manipulate the process by saying give me  
21 all this capacity, but I know in my heart that I am going to  
22 try to pay you for a lesser amount.

23           COMMISSIONER DAVIDSON: Perfect. I mean, I just  
24 wanted to get at that understanding because we are looking at  
25 something going forward or trying to remedy a past problem, and

1 I haven't heard much of a past problem to date. I do have a  
2 specific question for you, though, and I will state it first as  
3 Covad's counsel put it and then I will rephrase it. Covad's  
4 counsel had asked if Covad asks for more power than it is  
5 currently using at the time -- well, actually I don't know if  
6 Covad asked -- they started that phrase, but let me just go to  
7 my question.

8 If a CLEC asked for, quote, more power, close quote,  
9 at time zero than it is using at time zero in anticipation of  
10 using that more power at T1, does BellSouth incur a power  
11 related cost for that request?

12 THE WITNESS: Yes, we do.

13 COMMISSIONER DAVIDSON: And is that cost passed on to  
14 the CLEC?

15 THE WITNESS: Yes, it is. And those are the things I  
16 have been describing as infrastructure. Where Covad says at  
17 some future point I am going to need this much power, at time  
18 T12. At T0 or T1 their demand or their actual use will be much  
19 less than that. However, BellSouth has invested in power  
20 plants sufficient to handle that demand at T12. So, yes, they  
21 have asked for something greater than they are using at the  
22 moment, BellSouth believes they should be billed for that and  
23 over time that BellSouth would collect all the money expended  
24 on their behalf.

25 COMMISSIONER DAVIDSON: And BellSouth would be -- if

1 for some reason the infrastructure could be used with another  
2 CLEC, would be willing to bill that other CLEC as opposed to  
3 the requesting CLEC?

4 THE WITNESS: Yes. To the extent that those things  
5 can happen at about the same time, in other words, let's say  
6 BellSouth builds up its power plant, you know, by orders of  
7 magnitude for Covad, and Covad's demands never reach that  
8 level, and at sometime in the future AT&T says, you know what,  
9 in four years I will come in and use that spare capacity, then  
10 that is not a fair swap of Covad's obligations for AT&T's  
11 because there is a period of four years in there during which  
12 BellSouth will recover its costs from no one. But so long as  
13 those things could be coordinated and BellSouth kept whole in  
14 terms of what it spent and seeks to recover, then I don't have  
15 an issue with that.

16 COMMISSIONER DAVIDSON: One final question. If a  
17 CLEC asks for more power now than it will be using now, is  
18 there any cost associated with that request for more power that  
19 BellSouth doesn't pass on to the CLEC?

20 THE WITNESS: Is there a --

21 COMMISSIONER DAVIDSON: Is there a cost associated  
22 with that CLEC's request for more power that BellSouth does not  
23 pass on to the CLEC?

24 THE WITNESS: No.

25 COMMISSIONER DAVIDSON: Thank you.

1 THE WITNESS: Yes, sir.

2 BY MR. WATKINS:

3 Q Just to follow-up on Commissioner Davidson's second  
4 to last question. When he said power issue, if he meant  
5 electrical charge -- and let's just take the first line of this  
6 chart. If we were actually using 24.3 amps, we have  
7 requested -- no, that is fused, so we actually requested 40  
8 amps. The difference between that 40 and that 24 is not  
9 electricity that BellSouth -- apart from the infrastructure to  
10 cover the batteries and the rectifiers, it is not electricity  
11 that BellSouth is paying anybody for.

12 A That is correct. We are not paying Florida Power and  
13 Light for that difference, yes.

14 Q Even though the amount that we are being charged  
15 assumes that that electricity is being paid for by BellSouth,  
16 right?

17 A Yes, because most of those charges relate to the  
18 infrastructure which do directly relate to that number.

19 COMMISSIONER DAVIDSON: But now we are getting to it,  
20 and I am glad you asked that question. I think this is what we  
21 have all been asking here. I want to understand better whether  
22 a CLEC is being charged on the basis of we are assuming it is  
23 using 40 amps when, in fact, it is using 24, or is it actually  
24 just being charged for 24. Is it being -- is it receiving a  
25 power bill, a utility bill through you saying you owe for 40

1 amps of power used as opposed to you owe for 24 amps of power  
2 used?

3 THE WITNESS: The former. When BellSouth creates all  
4 these bills, you know, they are for the fused amount, that is  
5 the 40 amps that was requested.

6 COMMISSIONER DAVIDSON: Is BellSouth incurring a cost  
7 for the 40 amps?

8 THE WITNESS: For all of the infrastructure the  
9 answer is yes.

10 COMMISSIONER DAVIDSON: For the power, though?

11 THE WITNESS: For the amount of power that we would  
12 buy from Florida Power and Light at that moment, perhaps not.

13 COMMISSIONER DAVIDSON: And is BellSouth billing,  
14 however, the CLEC for 40 amps of power used?

15 THE WITNESS: Yes.

16 COMMISSIONER DAVIDSON: Why?

17 THE WITNESS: Because the method that was used in the  
18 cost dockets to arrive at that level, again, the amount of  
19 power that we -- or the charges that we pay Florida Power and  
20 Light compared to the infrastructure are fairly small, so they  
21 are all just sort of wrapped in there together.

22 CHAIRMAN JABER: Well, I thought you just, in  
23 response to Commissioner Davidson -- Mr. Milner, let me start  
24 out by saying this isn't hard. We understand what you mean by  
25 infrastructure and we understand what you mean by the flow of

1 electricity charge.

2 THE WITNESS: Correct.

3 CHAIRMAN JABER: We do happen to regulate that other  
4 industry, as well. So please be clear in your answers.

5 THE WITNESS: I will do my best.

6 CHAIRMAN JABER: This will go a lot faster. I  
7 thought in response to Commissioner Davidson's questions you  
8 said you are working on a way to separate the infrastructure  
9 costs from the flow of electricity charge.

10 THE WITNESS: Yes. One way that we could do that  
11 would be to meter the actual leads to collocation arrangements.

12 CHAIRMAN JABER: So then respond again to the  
13 question why are you charging the CLECs for the incremental  
14 flow of electricity charge when that is not being used?

15 THE WITNESS: Because at the present we don't have a  
16 means to measure those individual power feeds.

17 CHAIRMAN JABER: And what is it -- have you ever  
18 talked to FP&L about coming up with a way to flow the -- to  
19 measure the flow?

20 THE WITNESS: Well, there are devices that could be  
21 bought and installed that would measure the flow down to  
22 individual leads. It is not so much FPL's issue as it would be  
23 an issue between BellSouth and all the users of power in a  
24 given central office, because it is BellSouth and Covad and all  
25 the other users of all the other ALECs in that central office



1 that collectively cause a power bill to be generated from FPL.

2 CHAIRMAN JABER: Okay. And I see Commissioner Deason  
3 has a question. Let me switch gears on you just a little bit  
4 and bring yourselves into it. We have established early on  
5 that you, too, have put in infrastructure and power to  
6 anticipate a demand larger than what you have today. I am  
7 assuming FPL doesn't charge you for power not used.

8 THE WITNESS: No, that is correct, they do not charge  
9 us for power we don't consume.

10 CHAIRMAN JABER: And then my final question relates  
11 to how you prorate among CLECs. The example that was given to  
12 us by Covad was 12.8 versus the 24.3, and then I guess you used  
13 40 as the total.

14 MR. WATKINS: 40 is the requested.

15 CHAIRMAN JABER: Total requested would be 40 amps.  
16 When you charged Covad, as an example, for infrastructure and  
17 power costs recognizing they haven't used the incremental  
18 power, is it just Covad you are assessing that charge to, or is  
19 there a possibility of collecting costs associated with  
20 electricity flow from other CLECs?

21 THE WITNESS: Well, the same methodology is applied  
22 to all ALECs.

23 CHAIRMAN JABER: So you must be prorating somehow.

24 THE WITNESS: Well, we are gathering the entire bills  
25 of what we pay for the input and that is one element that goes

1 into what actual bill gets rendered. In other words, that is  
2 some of the things you considered in setting the rate per amp.

3 CHAIRMAN JABER: Commissioner Deason had some  
4 questions for you.

5 COMMISSIONER DEASON: Yes, thank you. I'm trying to  
6 understand the rate that is applied, and I believe in answer to  
7 previous questions you have indicated that the rate includes a  
8 component not only for the energy, but also for the  
9 infrastructure which you, as the collocation provider, has  
10 installed, is that correct?

11 THE WITNESS: Yes.

12 COMMISSIONER DEASON: So I'm going to analogize again  
13 to an electric consumer at a residence. When they get their  
14 bill from Florida Power and Light, there is an energy component  
15 of that bill, but there is also normally a customer charge that  
16 is on that bill.

17 THE WITNESS: Yes.

18 COMMISSIONER DEASON: And that customer charge  
19 generally is to recover costs of meter reading, the drop, that  
20 being from the main distribution system to the actual  
21 residence, recurring costs which are relatively fixed in nature  
22 regardless of consumption. Would you accept that?

23 THE WITNESS: Yes, I'm with you.

24 COMMISSIONER DEASON: Do you see any likeness here to  
25 what you are charging? You are not charging a customer charge,

1 you are just recovering everything in the monthly recurring  
2 rate, is that correct?

3 THE WITNESS: Yes.

4 COMMISSIONER DEASON: So if you were going to  
5 separate out the infrastructure recovery from the energy  
6 charge, you would need a recurring monthly rate in addition to  
7 the pure energy charge, correct?

8 THE WITNESS: Yes, you would need the pure energy  
9 charge as you are calling it, you would need some rate to  
10 recover the cost of reading the meters, generating the bill  
11 differently and that sort of thing. So, yes, there would be a  
12 differential in there above the energy cost itself to provide  
13 for installing the meters, reading the meters, all of that sort  
14 of thing.

15 COMMISSIONER DEASON: I am going to draw another  
16 analogy to the electric industry. This may be a concept you  
17 are familiar with or you may not, but residential customers are  
18 not normally charged a demand charge. All of their costs are  
19 either recovered through a customer charge or a per kilowatt  
20 hour charge. Larger industrial customers are often billed on a  
21 demand charge rate where they have not only the customer  
22 charge, but an energy consumption charge, but a demand charge  
23 based upon the consumption, the demand they place upon the  
24 system which basically is to recover generation infrastructure  
25 which is there to meet their demand when they demand it.

1           Do you see any similarity to the infrastructure that  
2 you have in place, that it is infrastructure you have put in  
3 place for them to meet when they demand it or grow into? Is  
4 there any similarity there or is that just two dissimilar  
5 concepts?

6           THE WITNESS: I don't know that the concepts are  
7 dissimilar, and, you know, perhaps we could arrive at some  
8 mechanism like that. Covad's characteristics in terms of, you  
9 know, their horizon for how long they plan may be different  
10 from another ALEC, so you would have to recognize those  
11 differences in the recovery rate for those things. But there  
12 are -- you know, there are analogies like that. I mean,  
13 BellSouth itself has an arrangement with power companies for,  
14 you know, what we can do to take ourselves off the grid in  
15 terms of, you know, peak demands, emergency situations, and we  
16 get something back for that.

17           In other words, ostensibly we get a lower rate for  
18 electing to take our central offices off the grid, run our  
19 generators, even when there is not a loss of commercial power.  
20 So, yes, there may be some analogies like that that we could  
21 work into an agreement that says, you know, to the extent that  
22 we don't have to build all of that infrastructure at once or  
23 where you agree to limit yourself somehow to this amount of  
24 capacity which prevents us from having to make additional  
25 investment, just like our taking ourselves off the grid

1 prevents FPL from having to create new power generation for  
2 those peak days or hours even, then that philosophy could be  
3 flowed through.

4 COMMISSIONER DEASON: But back to the original  
5 question, then. You are recovering not only pure energy  
6 charges, but infrastructure charges through your rate; that is  
7 correct?

8 THE WITNESS: Yes, that is correct.

9 COMMISSIONER DEASON: It could be separated out, but  
10 that would necessitate additional infrastructure costs in terms  
11 of monitoring or metering actual usage.

12 THE WITNESS: Yes.

13 COMMISSIONER DEASON: And it is your belief that the  
14 potential savings may not justify the additional front end  
15 costs of the metering?

16 THE WITNESS: That is our belief. In terms of the  
17 human power to read the meters, different ALECs may choose  
18 different devices, you know, how those things will be  
19 installed. But those are all questions that can be worked  
20 through, they are not insurmountable. But, yes, those devices  
21 don't exist today to measure those actual consumed power  
22 amounts. They could be installed, but, you know --

23 COMMISSIONER DEASON: Has BellSouth considered an  
24 option to CLECs where they can choose one energy charge which  
25 includes recovery of infrastructure and an option where they

1 are willing to pay the up-front infrastructure costs and the  
2 recurring metering cost for a more pure energy charge, if you  
3 will?

4 THE WITNESS: There have been some discussions  
5 between BellSouth and at least two different ALECs that can I  
6 know of, and that was sort of the basis. Frankly, those  
7 discussions have taken quite awhile, and even now are not, you  
8 know, are not complete. But those are the type things that  
9 BellSouth is willing to entertain, and that is, you know, what  
10 can we do mutually that is going to reduce our costs and reduce  
11 your costs at the same time. Right now we sort of have a  
12 one-size-fits-all, sort of, approach.

13 If we want to go to a more tailored approach that  
14 says if you want these measuring devices let's figure out how  
15 to get them in and in place, then that may be mutually  
16 beneficial. Right now it is BellSouth's belief based on the  
17 look we have made of it that the amount of savings by measuring  
18 all of this will not overcome the cost of installing and  
19 monitoring those devices.

20 COMMISSIONER DEASON: And I want to ask you to refer,  
21 again, to the table that was distributed to you earlier. I  
22 don't think it has been identified as an exhibit yet. What is  
23 your understanding of the second and third column, Power  
24 Reading Fuse A and Power Reading Fuse B, what do those numbers  
25 generally represent in your understanding?

1 THE WITNESS: Well, BellSouth usually provides two  
2 different power feeds to a collocation arrangement which we  
3 just arbitrarily call Leads A and B. I believe what Covad is  
4 showing here is that they have somehow measured the power over  
5 each lead and it adds to a total of 24.3.

6 COMMISSIONER DEASON: So in this hypothetical example  
7 it is your understanding that the representation is that that  
8 has been -- for Fuse A and Fuse B that there has been some type  
9 of measurement of actual consumption?

10 THE WITNESS: I believe that is the predicate for  
11 this exhibit.

12 COMMISSIONER DEASON: For this line of questioning.

13 THE WITNESS: Yes.

14 COMMISSIONER DEASON: Okay. Thank you.

15 CHAIRMAN JABER: Commissioners, what I would like to  
16 do is take a ten-minute break. We will come back and try to  
17 finish up with this witness before we go to lunch. Thank you.

18 MR. HATCH: Madam Chair, we are not going to finish  
19 with Mr. Milner before lunch. I have quite a bit.

20 CHAIRMAN JABER: You need to be more optimistic, Mr.  
21 Hatch.

22 MR. HATCH: I am, Madam Chairman.

23 CHAIRMAN JABER: You've got ten minutes to get more  
24 optimistic. (Laughter.)

25 (Recess.)

1 CHAIRMAN JABER: We are back on the record. Covad,  
2 you were cross-examining Mr. Milner, I think.

3 COMMISSIONER DAVIDSON: A few more --

4 CHAIRMAN JABER: Oh, Commissioner Davidson, I'm  
5 sorry, you had a question?

6 COMMISSIONER DAVIDSON: One follow-up, and I promise  
7 it is my last question for this round with this attorney,  
8 because lunch depends on it. If a CLEC predicted that it would  
9 need 20 amps, but it actually over each period of time used 30  
10 amps, would BellSouth know that?

11 THE WITNESS: Ordinarily not unless the protection  
12 devices like fuses started blowing in response to that demand  
13 of actual usage over predicted usage.

14 BY MR. WATKINS:

15 Q Indeed they would, wouldn't they? I mean, if you  
16 asked for 20, it would be fused for 30. If you started using  
17 30 you would start tripping your fuses, wouldn't you?

18 A That would be how we would know it, yes.

19 Q Which is a very good reason for telling BellSouth  
20 precisely the kind of power that you are going to wind up  
21 using, because otherwise you are going to have protection  
22 devices that are going to be popping constantly while you are  
23 trying to serve your customers?

24 A Yes, and you are going to create fire hazards  
25 potentially. I mean, lots of bad things could happen if you



1 don't, you know, accurately predict the amount of capacity you  
2 need.

3 Q In fact, when you do an application, you list the  
4 equipment and the List 1 draw for that equipment to avoid that  
5 very possibility, isn't that right?

6 A Yes.

7 Q When we were discussing some of the metering issues,  
8 you said that the meters don't exist for that. What you mean  
9 by that is the meter isn't there now?

10 A That is what I mean, yes.

11 Q In fact, if Covad wanted to know what the equipment  
12 was drawing to actually populate those two columns in this  
13 chart, there is equipment that you can come in and clamp on the  
14 line that will measure the draw running through that line,  
15 right?

16 A It will measure the draw at that moment. If you want  
17 to know -- you know, if you want the analog to the meter on  
18 your house, you have to have some device to accumulate, you  
19 know, how many hours of load you have drawn.

20 Q And BellSouth has those types of meters on its  
21 equipment between it and Florida Power and Light, right?

22 A Do you mean for the AC feeds?

23 Q Yes.

24 A Yes. I mean, just like you do on your business or  
25 house. There are meters to measure the total inflow of AC into

1 our buildings.

2 Q And the meters that BellSouth uses are actually  
3 remotely monitorable, so you are not paying for a meter reader,  
4 are you?

5 A Not on those, no. But if you were to extend that  
6 metering down to individual leads, then you would have to  
7 install needed devices and you would have to have a way of  
8 reading those devices.

9 Q All right. I want to come back to some of the  
10 questions that we had about the infrastructure costs that  
11 BellSouth incurs to provision power. If I asked for 40 amps  
12 and you build batteries and rectifiers to provide that power,  
13 are those batteries and rectifiers actually dedicated to Covad?

14 A No, they are not. Collectively they are available  
15 for whoever is using power, you know, served from that power  
16 supply.

17 Q So if Covad -- and if there is any press in the room,  
18 this is purely hypothetical -- but if Covad went out of  
19 business, those batteries and rectifiers don't go out of  
20 business with us, right?

21 A No.

22 Q So, there is a reutilization factor that is available  
23 for that equipment because BellSouth would pick that up and use  
24 it for its own purposes or reassign its capacity to another  
25 CLEC if a CLEC goes out of business and has a certain dedicated

1 physical plant for it in the central office, right?

2 A No. Maybe or maybe not. You know, let's say  
3 Covad -- let's not use the doomsday scenario of going out of  
4 business, let's say that Covad decides not to do business in  
5 Central Office A. You said, well, those batteries and all that  
6 equipment just somehow revert to BellSouth for BellSouth's  
7 future need. Well, BellSouth may not have a need in the future  
8 that is greater than it has right now. It may already have the  
9 full complement of equipment it wants there. So there may not  
10 be a need for those batteries and rectifiers that were put  
11 there for Covad once Covad leaves.

12 Q All right. With regards to the metering, I heard you  
13 earlier say you don't have a problem if the CLEC looks at this  
14 chart and says, wow, it would be economically efficient for me  
15 to either buy and install meters or pay BellSouth to buy and  
16 install meters. You wouldn't -- your testimony seemed to have  
17 a problem with the costs associated with that. But if the  
18 efficiencies and the economic efficiencies are there for  
19 metering, BellSouth has no opposition to that as an option?

20 A No. Let me clarify just one point. I have no  
21 opposition to that so long as you are not trying to leverage  
22 the infrastructure investment by reading the meter of actual  
23 power consumed from one moment to another.

24 Q Okay. Commissioner Deason proposed one way to  
25 address that problem. The one last thing I wanted to get to

1 with regards to the question that went on was the --

2 CHAIRMAN JABER: Can I interrupt you?

3 MR. WATKINS: Please.

4 CHAIRMAN JABER: What Commissioner Deason proposed --

5 I don't know how to ask this without asking you to testify.

6 That is not my intent.

7 MR. WATKINS: No, I can tell you what my memory was

8 of what --

9 CHAIRMAN JABER: Here is what I'm getting at, I think

10 I would like to hear some feedback from the ALECs with regard

11 to whether that is a proposal that is acceptable. And I know

12 Mr. King is testifying later, so if you all want him to address

13 that, that's fine.

14 BY MR. WATKINS:

15 Q Well, I can ask one question here that might clarify  
16 what my beliefs are about some of that stuff, and that is Covad  
17 did most of its collocations in about 1999, so to the degree  
18 that you are recovering some of the in-plant factors, or  
19 in-plant costs by charging us this \$780 per fused amp, you have  
20 been recovering those costs for a long period of time, and to  
21 the degree that there is now a new charge that is higher than  
22 the incremental charge or a nonrecurring charge, you would  
23 almost double-recover from a company that has had a collocation  
24 space for a long period of time, isn't that right?

25 A Well, not necessarily. I mean, if we are going to go

1 to a new method of doing this, there does not necessarily have  
2 to follow that there is going to be some double recovery. You  
3 know, we could account for what number of years Covad has been  
4 in business and had collocation, and not -- I don't mean in any  
5 way this would be, you know, a negative statement about Covad,  
6 but four years is not very long in the life of a power plant.  
7 I mean, those things are built for the long-term.

8 Q Now, the last question I wanted to get to was there  
9 was some implication in one of your answers, I think, to  
10 Commissioner Davidson that the 7.80 current per fused amp price  
11 had something more than a majority of it associated with  
12 recovering the infrastructure cost as opposed to the actual  
13 power electrical charge that you pay to Florida Power and  
14 Light. Do you know what percentage of the 7.80 is dedicated to  
15 infrastructure versus electrical power?

16 A No, not with precision. I would expect it to be  
17 fairly high, at least in the range of 70 or 80 percent.

18 Q Of the 7.80 is for power or -- is for infrastructure  
19 or for electricity?

20 A It is for infrastructure.

21 Q Do you know what the industrial rate for electricity  
22 in Florida is on a per kilowatt hour basis?

23 A No, sir.

24 Q With regards to Question 6C, when should an ILEC be  
25 allowed to begin billing a CLEC for power, it is BellSouth's

1 position that that should begin at the space ready date, isn't  
2 that right?

3 A Generally. There are cases where an ALEC wants to  
4 get in early, and if it is safe to do so we allow you to be in  
5 early. And if you start using power, then we would like to  
6 start billing you for that.

7 Q Well, the other side of that if statement, though,  
8 also applies, and that is if we are not using power you still  
9 want to start charging us for power, isn't that right?

10 A That is right, yes.

11 Q And if you go back to our building example, it would  
12 be like your house being framed out and the fuse panel is  
13 there, but there is no light bulbs screwed in, there is no  
14 dishwasher, there is no washing machine, and Florida Power and  
15 Light walks in and counts up your fuses and starts immediately  
16 charging you because they have done their infrastructure  
17 development, but you haven't started using or drawing the  
18 power, but they want to start charging you for it, isn't that  
19 right?

20 A Well, let me just substitute the electrician as the  
21 contractor that put in the wiring rather than Florida Power and  
22 Light. But with that change, yes, I would agree.

23 Q Okay. Well, let's take the two possibilities. On  
24 the one hand, we start paying for electrical power at the space  
25 ready date. In that instance -- and let's further assume that

1 I don't actually have my equipment in there and running and  
2 plugged in at that moment. There is a certain period of time  
3 normally when that equipment is put in, plugged in, turned on,  
4 and have customers attached to it, right?

5 A Yes.

6 Q During that period of time, between the space ready  
7 date and the time that I start drawing power, if I am charged  
8 for that power, I am getting charge for a huge amount of stuff  
9 that at least in electrical charges I haven't used, isn't that  
10 right?

11 A If you will take out the word huge, I will agree with  
12 your question. There will be some difference, but I don't know  
13 how large that is.

14 Q 7.80 times the requested amount of power?

15 A Right.

16 Q On the other hand, if BellSouth has to sit back and  
17 wait for that used capacity, or that used amount, or requested  
18 amount of electricity to be begin to be used, what it is not  
19 getting is the infrastructure costs that it would recover  
20 through that monthly recurring charge, right?

21 A Correct.

22 Q So it is that time value of money for those three  
23 months, let's say, for hypothetical purposes, that BellSouth  
24 does not enjoy. That it begins enjoying immediately upon the  
25 date that the CLEC begins to use the power, right?

1 A That is correct, yes.

2 Q So between those two different scenarios, one where  
3 BellSouth waits to charge, it loses a small time value of  
4 money, right?

5 A It loses some time value of money, yes.

6 Q But the CLEC on the other hand if we get charged from  
7 the beginning date while BellSouth gets that time value of  
8 money paid for, the CLEC pays \$7.80 times the fused amount of  
9 amps for X number of months that it is not using power, right?

10 A That is a possibility, yes.

11 Q So between the two there is a large amount of money  
12 going out the door for power not being used, or a small amount  
13 of money for the time value of the money that BellSouth is not  
14 enjoying that it will ultimately enjoy, correct?

15 A Well, you keep qualifying with huge and small, those  
16 are the things that I can't agree with. Yes, I agree with what  
17 you just said that the way we are doing it now there is a, you  
18 know, that period of time between when we have done all our  
19 work and turned that space over to you and when you ultimately  
20 occupy the full capacity, yes. All of those things are largely  
21 within your control as to how quickly you put equipment in,  
22 how quickly you ramp up and put customers on that equipment.

23 Q If BellSouth supports the metering concept, if the  
24 CLEC thinks that it is economical, you would not oppose holding  
25 off on the actual charges until there is actual usage, is that



1 right?

2 A Well, to the extent that we are able to begin  
3 recovery on the infrastructure part, no, philosophically I  
4 don't have a problem with that.

5 Q And, finally, Issue 8, what are the responsibilities  
6 of the ILEC, if any, when an ALEC requests collocation space at  
7 a remote terminal where space is not available or space is  
8 nearing exhaustion. In Florida, under the current prices,  
9 terms, and conditions for remote terminal collocation, that  
10 question, or more accurately the answer to that question is a  
11 moot point, isn't it?

12 A I'm sorry, the answer to what question?

13 Q Issue 8. Well, answer me this. Has anybody ever  
14 requested remote terminal collocation from BellSouth in  
15 Florida?

16 A No, I don't believe so. I think there -- well, I can  
17 give you my opinion of why I think that is.

18 Q Well, let me ask you the question so the record reads  
19 correctly. What is your opinion for why that is?

20 A Thank you for that opportunity.

21 Q You're welcome.

22 A I think that ALECs are waiting to see what is going  
23 to happen in two places, in front of state commissions as to  
24 whether state commissions are going to impose on BellSouth an  
25 obligation to unbundle its DSLAMs, and I think ALECs are also

1 waiting to see what is going to happen at the federal level in  
2 the triennial review. And both of those, I think, have to some  
3 degree encouraged ALECs to sit on the sidelines before they  
4 plunge in and take on risk in terms of deploying their DSLAMs  
5 at remote terminals.

6 Q The availability has been in existence for three  
7 years to request remote terminal collocation, hasn't it?

8 A I don't know precisely, but it has been out there for  
9 awhile, I will agree with that.

10 Q It was one of the prerequisites of ultimately getting  
11 to unbundling packetized switching was you had to ask for  
12 collocation space and be denied that, right?

13 A Yes.

14 Q Yet nobody has even asked for remote terminal  
15 collocation, much less been denied, isn't that right?

16 A Yes, but I believe in all nine states in BellSouth's  
17 region there have been requests of the commissions to impose a  
18 requirement to unbundle BellSouth's DSLAMs rather than for the  
19 ALECs to proactively go out and install their own in remote  
20 terminals.

21 Q Do you know a guy named Jim Johnson, a BellSouth  
22 employee?

23 A I know Jim, yes.

24 Q If Mr. Johnson testified before the House committee  
25 here in Florida that BellSouth had 3,596 remote terminals

1 deployed with DSLAMs in them, does that number sound right for  
2 Florida?

3 A I don't know the right number, but it is a large  
4 number, because BellSouth has been very proactive in deploying  
5 its DSLAMs in remote terminals where there was not copper cable  
6 in the feeder part of the loop. So, yes, I am not surprised at  
7 all that that is a very large number. We made a business  
8 decision that that is the business we wanted to be in. Where  
9 there is fiber in the loop feeder part of our plant, then we  
10 said, okay, we recognize that, and we will put our DSLAMs in  
11 remote terminals.

12 Q BellSouth recognizes there would be enormous cost  
13 savings if they took the big trunk line that runs from the  
14 central office to the remote terminal that is copper and has a  
15 high maintenance cost and pulled that out and replaced it with  
16 fiber, it would save a lot of money, right?

17 A No, sir. BellSouth takes a different approach, and  
18 that is it looks at a number of different triggers for  
19 replacing copper cables. Road moves, whether the cable has  
20 been hit by lightning and costs too much to maintain. So, no,  
21 we have not done any cost study that I am aware of that just  
22 says let's look at replacing each and every copper cable in our  
23 network because ultimately it may be cheaper to operate that.  
24 That would be a huge investment for us to make. Instead, we  
25 look at it in terms of the situation. You know, what are we

1 required to do by departments of transportation in terms of  
2 what capacity is there, what our future needs might be, what is  
3 the serviceability of what we are already own. So our first  
4 choice is always to use what we have rather than go out and  
5 build new plant.

6 Q But a fiber trunk line running -- I shouldn't even  
7 call it a trunk line. A fiber line running from the central  
8 office to a remote terminal is cheaper to maintain than copper,  
9 though, right?

10 A Generally. But it's not -- that is only one aspect  
11 of a cost study to figure out whether economically it makes  
12 sense to replace a copper cable that is entirely serviceable  
13 and, you know, you are recovering or have already recovered  
14 your cost and you are making money on it.

15 Q If you have a sole fiber running out to that remote  
16 terminal, in order for BellSouth to be able to serve people  
17 with DSL on the far end of that fiber line they have got to put  
18 a DSLAM in the remote terminal, right?

19 A That's right, yes.

20 Q Do you know what percentage of your remote terminals  
21 in Florida are fiber-only fed?

22 A I don't know that number, no. The --

23 CHAIRMAN JABER: Mr. Milner, the question was do you  
24 know that number. It doesn't call for elaboration. I will be  
25 flexible when the question calls for elaboration. And this is

1 where I get to remind you your attorney will do redirect.

2 THE WITNESS: Yes, ma'am. Thank you. I don't know  
3 that number.

4 BY MR. WATKINS:

5 Q Do you have any idea? Is it 50 percent, 70 percent,  
6 or 5 percent?

7 A I don't know the number.

8 Q Okay. If there is a large percentage, I will just  
9 use a Tennessee number of 50 percent of the remote terminals  
10 are fiber fed only, the only way for a DSL competitor to serve  
11 those customers on the far side of that remote terminal is  
12 collocation at that remote terminal, assuming there is no  
13 copper line parallel to the fiber line, right?

14 A Correct, yes.

15 Q So if the percentage is anywhere remotely close to  
16 that, and that is the only way to serve those customers at all,  
17 does it surprise you that nobody has even asked to collocate at  
18 that remote terminal if there is potentially tens of thousands,  
19 if not hundreds of thousands of customers on the back side of  
20 that remote terminal that that competitor cannot serve without  
21 being collocated at that remote terminal?

22 A And your question was am I surprised by that?

23 Q If there are thousands of customers on the back side  
24 of remote terminals that DSL competitors cannot serve without  
25 collocation, does it surprise you that nobody has asked to

1 collocate?

2 A I don't know if I am surprised or not. I have  
3 explained that my understanding of why that has occurred is  
4 reaction to the regulatory climate, not to the technological  
5 environment.

6 Q To clarify, you believe that we are waiting for  
7 regulatory certainty from the FCC?

8 A From the FCC as well as from this Commission and  
9 others, yes.

10 MR. WATKINS: I have no further questions.

11 CHAIRMAN JABER: Mr. Feil.

12 MR. FEIL: Madam Chair, for planning purposes I have  
13 maybe five minutes worth of questions. I think Mr. Hatch has  
14 significantly more than that, so I will go next if that is the  
15 order you desire.

16 CHAIRMAN JABER: Yes.

17 CROSS EXAMINATION

18 BY MR. FEIL:

19 Q Mr. Milner, isn't it correct that for ALEC collocated  
20 equipment to be certified under applicable standards such as  
21 NEBS, which stands for network equipment building standards, if  
22 I've got that right?

23 A Yes.

24 Q It is supposed to have redundant power feeds?

25 A Yes, that is right.

1 Q Does NEBS also require battery backup?

2 A I don't believe it does.

3 Q But it does require redundant power feeds?

4 A It requires redundant power feeds, but --

5 Q So if an ALEC has equipment that draws 40 amps of DC  
6 power, that equipment must have a 40-amp A feed fused  
7 appropriately and a 40-amp B feed, correct?

8 A Yes.

9 Q And the idea here as you mention in your rebuttal  
10 testimony is that if one feed fails at the fuse or otherwise,  
11 then the other feed can fully power the equipment, correct?

12 A That's right.

13 Q So in my hypothetical, I'm talking about that 40-amp  
14 equipment, that equipment will not draw 40 amps of power over  
15 both feeds at the same time, correct?

16 A That is correct.

17 Q And to the extent that the feeds were not redundant  
18 in terms of sizing, the standards would not be met, the NEBS  
19 standards would not be met, correct?

20 A If they were not redundant?

21 Q If they were not.

22 A Then you would not meet NEBS standards, that is  
23 correct.

24 Q On Page 8 of your rebuttal you state that BellSouth  
25 does not charge ALECs for redundancy. That recognizes -- I'm

1 sorry, Page 8, starting at Line 14 of your rebuttal. You say  
2 that BellSouth does not charge for redundancy. This  
3 recognizes, does it not, that the equipment will not draw the  
4 required load over both feeds at the same time, correct?

5 A That is the point I was trying to get across, yes.

6 Q Okay. So to the extent that an ILEC billed for the  
7 total amount that could be drawn over both feeds at the same  
8 time, then they would be overbilling, is that correct?

9 A I'm sorry, you lost me with that. Could you try it  
10 again?

11 Q I'm sorry, perhaps I didn't phrase the question  
12 correctly. To the extent that an ILEC billed disparately from  
13 the way you bill, from the way BellSouth bills, they would be  
14 overcharging, is that correct?

15 A Are you saying that they billed differently from the  
16 way --

17 Q They billed disparately. In other words, they bill  
18 for the full power load over both feeds?

19 A Well, if that is what they did, and all other things  
20 being equal in the way the charges were arrived at, then I  
21 would probably agree with that.

22 MR. FEIL: Okay. I don't have anything further.

23 CHAIRMAN JABER: Commissioners, let's take a one-hour  
24 lunch break, and we will start with Mr. Hatch's  
25 cross-examination.



1 (Lunch recess.)

2 CHAIRMAN JABER: Let's get back on the record. You  
3 had an exhibit -- before we get to Mr. Hatch, you had an  
4 exhibit that we did not identify. Did you want to identify  
5 that?

6 MR. WATKINS: Yes, Madam Chair. Covad would like to  
7 mark this chart, and we are calling it Hypothetical Exhibit 1.  
8 We can call it Exhibit 1. I'm going to mark on it in real  
9 print hypothetical and then change the word overcharge to total  
10 MRC minus amps used at 1,170. And I think with those changes  
11 there is no objection from any of the ILECs. Is that right,  
12 ILECs?

13 CHAIRMAN JABER: As I understand it, it is going to  
14 be renamed hypothetical exhibit, and there is going to be a  
15 change deleting the word overcharge and replacing it with total  
16 MRC minus amp used?

17 MR. WATKINS: That is correct, ma'am.

18 MS. WHITE: And is my understanding still correct  
19 that you are not going to move this into the record?

20 MR. WATKINS: This is not a piece of evidence. This  
21 was simply to aid anybody reading the record to know what we  
22 were talking about. They can have this in front of them as an  
23 exhibit. It is hypothetical, and we are not introducing it as  
24 evidence.

25 MS. WHITE: And BellSouth is okay with that.

1 CHAIRMAN JABER: So we will identify it for purposes  
2 of the record and that will be Exhibit 14.

3 (Exhibit 14 marked for identification.)

4 CHAIRMAN JABER: Covad hypothetical exhibit.

5 Okay. Mr. Hatch.

6 CROSS EXAMINATION

7 BY MR. HATCH:

8 Q Good afternoon, Mr. Milner. My name is Tracy Hatch,  
9 I will be asking you a series of questions for AT&T.

10 A Good afternoon.

11 Q To follow up on -- before I forget about it from your  
12 earlier cross this morning, do you remember the house analogy  
13 that was discussed?

14 A Yes.

15 Q And I believe it was your statement, correct me if  
16 I'm wrong, that the house is created, it is all framed out,  
17 there's no appliances in it, there's no lights in it, and the  
18 analogy was that, say, FPL isn't charging you power at that  
19 point. Is that correct?

20 A Yes.

21 Q And I believe that you added to that analogy that the  
22 electrician had run all the wiring in the house and that the  
23 electrician needed to be paid, is that correct?

24 A Yes.

25 Q Now, in the collo context -- to carry that analogy

1 further, in the collo context when we get collo space and we  
2 ask for power, we actually pay for that cabling that is done  
3 from your power board or from the BDFB, your BDFB to our space,  
4 is that correct?

5 A Yes, you do.

6 Q So in that instance we have already paid the  
7 electrician?

8 A Right.

9 Q But what hasn't been done is that FPL isn't charging  
10 us for some increment of their power grid that feeds the house,  
11 such as their nuke plants or their coal-fired plant, is that  
12 correct?

13 A That is one of the things, yes.

14 Q We have been talking a lot about fuses and amps and  
15 so forth, and I want to just bear down a little bit and make  
16 sure that we are all talking on the same page technically.  
17 When you size the cabling in your central office, what do you  
18 size that cabling -- how do you size that cable? How do you  
19 know whether it is a four-ought cable or a ten-gauge wire or  
20 what?

21 A Well, we look at the expected drain, that is the  
22 steady state amount of consumption that there would be, and  
23 generally multiply that by one and a half times to figure the  
24 size of the power feeders and the other devices that we would  
25 install.

1 Q The one and a half size, that would be to size the  
2 fuse that would protect that piece of cable, is that correct?

3 A And the other devices that go along with it, yes.

4 Q Right. And the devices downstream that feed off of  
5 that cable?

6 A That is correct, yes.

7 Q When you size cable, as I understand it, your sizing  
8 of cable is a function of both the expected electrical flow  
9 through that cable plus the length of that wire, is that  
10 correct?

11 A Yes.

12 Q And you use -- and the size or the thickness of the  
13 wire gets bigger for longer distances and so forth, is that  
14 correct?

15 A That is right.

16 Q And then you will put a fuse on that that will  
17 protect that cable based on whatever fuse size, based on the  
18 expected load demand times one and a half, is that correct?

19 A Yes. And the equipment that is attached to that.  
20 Not only is it protecting the cable itself, but the device that  
21 is on the end of it.

22 Q And what the fuse does, as I understand it, is that  
23 it protects the electrical current in that cable from exceeding  
24 that cable's carrying limitations, is that correct?

25 A Correct, yes.

1 Q If the fuse were not there and it started carrying  
2 too much cable, it would essentially make it too hot, and  
3 probably melt the sheath and then cause a fire potentially?

4 A Yes, exactly.

5 Q Now, let's talk for a minute -- are you familiar with  
6 the term List 2 drain?

7 A Yes.

8 Q Can you tell me what that means?

9 A Yes. Generally, the List 2 drains are drains that  
10 are experienced, what we call peak loads. Sometimes they also  
11 occur when equipment is first turned on. You might have  
12 noticed that your television makes noises when you first turn  
13 it on, so List 2 drains are peak loads or those above the  
14 steady state.

15 Q Would it be accurate to say in a telco context that a  
16 List 2 drain is the maximum amount of power that a piece of  
17 equipment will draw when the power plant is in distress, would  
18 that be accurate?

19 A That is one of the occasions that they might occur.  
20 On power up and some other times, as well, but that's fair.

21 Q And when a power plant is in distress, that would be  
22 when the AC power from, say, Florida Power and Light has gone  
23 off, and your generator isn't running, and your equipment is  
24 running off the batteries, that would be a power plant in  
25 distress, would that be correct?

1 A That is one occasion, yes.

2 Q Would that essentially be what you would consider to  
3 be a worst operating condition?

4 A Yes. I mean, when you are running on your batteries  
5 and your generators have not yet kicked in, there is a  
6 possibility that the batteries are going to expire before  
7 either the power is restored or the generator starts. So, yes,  
8 that is the worst case.

9 Q Now, would it be correct to say that List 2 drain is  
10 determined through testing on a piece of equipment by lowering  
11 the voltage to the point where that equipment fails?

12 A That is how most manufacturers do it. And, by the  
13 way, some manufacturers don't even provide that, but --

14 Q Now, is it also correct that as the voltage on a  
15 piece of equipment is lowered, that piece of equipment will  
16 attempt to draw more power in terms of amps?

17 A Yes, it will.

18 Q And that is because if you measure power consumption  
19 in watts as the voltage drops, then the amperage has to go up  
20 to equal the same amount of watts for that piece of equipment  
21 to actually operate?

22 A According to Ohms' law, yes.

23 Q Now, List 2 drain is essentially that point at which  
24 the equipment will fail when the voltage drops at that point,  
25 is that correct?

1           A     It will fail at that point or some higher point, yes.  
2     And I say some higher point, that is sort of a theoretical  
3     approximation. In some cases it's not all that precise.

4           Q     How often would you guess, or at least in your  
5     experience with BellSouth, that either the -- that you have  
6     experienced or that BellSouth will have experienced a power  
7     plant distress, how often does that occur?

8           A     It is very infrequent.

9           Q     And the fuse size that would be put on a piece of  
10    equipment would be sized according to List 2 drain, is that  
11    correct?

12          A     Yes.

13          Q     Now, that formula essentially is consistent with  
14    BellSouth's internal standards, is that correct?

15          A     That's right, yes.

16          Q     And by those standards I am referring to TR73503-10,  
17    would that be --

18          A     Yes. That is our standard, yes.

19          Q     Now, when you calculate a load on a piece of  
20    equipment and it will come up with some number, it might be,  
21    say, 32.1, call it a List 2 drain, for example. When you are  
22    fusing for something like that, you would round up to the next  
23    biggest fuse, is that correct?

24          A     I'm sorry.

25          Q     When you calculate a load, you would round up to the

1 next sized fuse --

2 A Yes.

3 Q -- based on that one and a half percent?

4 A That's right, yes.

5 Q Or 150 percent, I'm sorry. Now, these fusing and  
6 cable sizes apply to the power cabling from your power  
7 distribution board down to the BellSouth BDFB, is that correct?

8 A In some cases, yes. I understand AT&T says that is  
9 how most of their collocations are powered. Other ALECs get  
10 their power from tapping in not at the power distribution  
11 board, but at the battery distribution fuse bay. The  
12 principles are the same.

13 Q Gotcha. The relationship between cabling and fuse  
14 sizing applies both between the power distribution board and a  
15 BellSouth BDFB and also the equipment feeding off that BDFB?

16 A Generally.

17 Q Now, when a CLEC installs equipment in its  
18 collocation space, it will put in, say, one bay. And when it  
19 orders power, it will order power based on what it expects that  
20 bay fully equipped and fully operational to draw, is that  
21 correct?

22 A Not necessarily. If the ALEC, for example, never  
23 figured it would use all the capacity of that, that it might  
24 not plug in all the cards that that device, you know, might  
25 have in it, it might choose -- you know, the ALEC might specify



1 a lower amount. But if it intended to fully use that equipment  
2 one day, then, yes, I would agree with your statement.

3 Q And that would be based on a List 2 drain, is that  
4 correct?

5 A Yes.

6 Q Now, we have talked about List 2. Are you familiar  
7 with the term List 1 drain?

8 A Yes.

9 Q What is your understanding of List 1 drain?

10 A Well, it is a layman's term. List 1 is a steady  
11 state power consumption of a device.

12 Q Would it be accurate to say that a List 1 drain  
13 is the maximum amount of power that a piece of equipment will  
14 consume when it is fully equipped, meaning all the cards that  
15 it could hold are there, all the features and functions of that  
16 equipment are fully engaged and all operational, and that would  
17 be the maximum that that equipment could draw, that would be an  
18 accurate definition of List 1?

19 A That is the anticipation, yes.

20 Q Now, using that definition, would you expect a piece  
21 of equipment in a central office to operate at List 1  
22 continuously?

23 A Continuously, no. Not continuously, but it operates  
24 most of the time at or close to its List 1 drain.

25 Q If a piece of equipment is not fully equipped

1 meaning, for example, it only has half the number of cards, it  
2 will not be running at List 1 drain on a steady state basis,  
3 will it?

4 A Presuming that that is the way the manufacturer  
5 specified List 1 drains, yes.

6 Q Now, are you familiar with the term coordinated  
7 shutdown?

8 A Yes.

9 Q Could you describe what that is, please?

10 CHAIRMAN JABER: Mr. Hatch, I need you to remove your  
11 hand away from your face so I can hear you.

12 MR. HATCH: My apologies.

13 BY MR. HATCH:

14 Q You are familiar with the term coordinated shutdown?

15 A Yes.

16 Q Could you describe what that is, please?

17 A Yes. The electrical code describes ways in which  
18 devices are shut down in sort of a hierarchical order. The  
19 notion or the goal is that individual devices will have their  
20 fuse blown before larger fuses that effect more equipment are  
21 blown. So that is the coordination part, is that the lower you  
22 are in the food chain the more likely your fuse is going to  
23 blow and you won't affect other adjacent equipment or unrelated  
24 equipment.

25 Q Now, in a coordinated shutdown, as I understand it,

1 and correct me if I'm wrong, the upstream fuses are going to be  
2 sized larger than the downstream fuses, is that correct?

3 A Correct.

4 Q And what is that ratio that is used to size the  
5 upstream fuse from the downstream fuses?

6 A Well, it depends on the fuse type. For the more  
7 common TPS fuse, it is a ratio of three-to-one. That is the  
8 aggregate amount of fusing at the higher level in the hierarchy  
9 will be three times what the fused amount is at the lower  
10 level.

11 Q I'm going to be handing you out a document here that  
12 is provided to me in discovery by BellSouth. It is essentially  
13 the document we referred to earlier, that 73503-10. It is a  
14 section out of your BellSouth standards.

15 A All right. Thank you.

16 MR. HATCH: Just to alert everybody, I had a  
17 discussion with counsel for BellSouth. I am going to attempt  
18 not to elicit any proprietary information. I think the basic  
19 problem is that the document itself is proprietary and personal  
20 to BellSouth in terms of it is their document, they don't want  
21 it in the public domain, and I am alerting counsel. She will  
22 warn me if I am going too far with any of these questions, but  
23 I will attempt not to violate anything.

24 CHAIRMAN JABER: Thank you.

25 BY MR. HATCH:

1 Q Now, if you look at that section, Page 2, and I  
2 believe it is paragraph -- let me find it, hang on. 4.5.

3 A Do you mean Section 4.5?

4 Q Yes, Section 4.5.

5 A Well, my sections go from 4.4 to 5, so I'm not  
6 following you.

7 MR. HATCH: May I approach with my copy to make sure  
8 his copy is the same as mine?

9 CHAIRMAN JABER: Yes. And, Mr. Hatch, I'm looking at  
10 Page 6 of the document you handed out, and Page 6 of the  
11 document goes from 4.4 to 5. Now, maybe you are looking at a  
12 whole different section. Does that help you?

13 MR. HATCH: No. The front page of the document looks  
14 like that. Power frame. There are several documents in the  
15 folder, I apologize.

16 THE WITNESS: Oh, I'm sorry. I didn't see the other  
17 document.

18 MR. HATCH: I guess for the record to be really  
19 clear, this would be a section from BellSouth's internal  
20 standards titled TR73503-10. It is identified in the upper  
21 right-hand corner on the face, Issue G, October 1997.

22 CHAIRMAN JABER: Okay. And you are looking at Page  
23 2, Section 4.5.

24 MR. HATCH: Right.

25 CHAIRMAN JABER: Do you have that, Mr. Milner?

1 THE WITNESS: I have that, yes. Thank you.

2 MR. HATCH: I probably ought to go ahead and get this  
3 marked for identification, Madam Chairman, while we're at it.

4 CHAIRMAN JABER: This is Confidential Exhibit 15.  
5 And, Ms. White, we tell me what to title it so that I preserve  
6 the confidentiality.

7 MS. WHITE: Well, we could just call it technical  
8 reference, BellSouth Technical Reference 73503-10.

9 CHAIRMAN JABER: So identified as Exhibit 15,  
10 confidential.

11 (Exhibit 15 marked for identification.)

12 BY MR. HATCH:

13 Q Now that we are all talking on the same document  
14 hopefully. Looking at Paragraph 4.8, I guess, is the way I  
15 want it to be?

16 A 4.8. Okay.

17 Q Now, that indicates the maximum size of a protection  
18 device, is that correct?

19 A Of a secondary, yes. Of a secondary fuse, yes.

20 Q Right. And would that be a higher ratio than what  
21 your 3-to-1 ratio is that we talked about before?

22 A That is, yes.

23 Q And so that your 3-to-1 ratio isn't strictly adherent  
24 to this standard, is that correct?

25 A No. I will note that this was issued in 1997 and

1 there have been changes since then.

2 Q And we will talk about that in a little bit. Now, if  
3 you will turn to your direct testimony on Page 7.

4 A Okay, I'm there.

5 Q If you look at the bottom where it says Lines 19  
6 through 24, and it says there that BellSouth provides power at  
7 the ALEC's request from the BDFB in increments as low as 10 all  
8 the way up to 100 amps, is that correct?

9 A I'm sorry, I'm not -- did you say on Page 7 of my  
10 direct?

11 Q Page 7 of your direct.

12 A I'm sorry, I was in my rebuttal. I apologize.

13 Q I know, I do it all the time.

14 COMMISSIONER BRADLEY: Which line?

15 CHAIRMAN JABER: Mr. Hatch, ask your question again,  
16 because I think we had trouble hearing it, as well. You were  
17 trying to direct the witness to Page 7.

18 BY MR. HATCH:

19 Q Page 7, Lines 19 through 23. It indicates there that  
20 BellSouth provides power from its BDFB in increments from as  
21 low as 10 all the way up to 100 amps.

22 A It says that, yes.

23 COMMISSIONER BRADLEY: Is that in his direct  
24 testimony?

25 MR. HATCH: That is in his direct testimony, that is

1 correct.

2 COMMISSIONER BRADLEY: Okay.

3 BY MR. HATCH:

4 Q Now, prior to this change you would offer power up to  
5 60 amps, is that correct?

6 A That is right.

7 Q What was the reason for that change?

8 A Well, primarily we found a way, or the vendor found a  
9 way to use a different fuse type on the BDFB than had been used  
10 heretofore.

11 Q Now, if an ILEC used a 100-amp fuse, would it not  
12 violate the coordinated shutdown standards that we talked about  
13 earlier where the downstream fuse is one-third the size of the  
14 upstream fuse?

15 A I'm sorry, I didn't follow your question. Could you  
16 ask me again.

17 Q Yes. If a CLEC wants a 100-amp fuse off the BDFB,  
18 you will supply that?

19 A Yes.

20 Q Now, BellSouth at its power board will have a circuit  
21 breaker of 225 amps that feeds that BDFB, is that correct?

22 A That is correct.

23 Q Now, if a CLEC has a 100-amp fuse and you have got a  
24 225-amp breaker on the power board, doesn't that violate that  
25 3-to-1 ratio that we talked about earlier with respect to your

1 coordinated shutdown?

2 A No. At the risk of giving a fairly complicated  
3 answer, the ratios are different by the type fuse. The 3-to-1  
4 ratio that I mentioned earlier refers to so-called TPS fuses.  
5 A lower ratio is appropriate for TPL type fuses.

6 Q And so it is the fuse type that creates that ratio,  
7 but these are reflected anywhere in your standards at this  
8 point?

9 A Well, I will answer your first part, yes. The ratio  
10 is a function of the fuse type, and I didn't hear the second  
11 part of your question.

12 Q That your current standards don't reflect this change  
13 in fuse technology?

14 A This document does not, that is correct.

15 Q Now, could you have a larger fuse on your power board  
16 than 225?

17 A Yes, physically larger fuses can be accommodated at  
18 the power board. In light of what happened in Hinsdale,  
19 Illinois, we decided that that was a bad practice and decided  
20 to limit it to 225-amp fuses.

21 Q And Hinsdale was not a problem of a fuse failure so  
22 much as it was a problem of poor workmanship on tightening lugs  
23 on an H-tap, is that correct?

24 A Well, I think it was really a combination of both.  
25 The poor workmanship exposed a potential problem in a condition



1 called arcing, which is what ultimately started the fires.

2 Q Now, based on your coordinated shutdown and the ratio  
3 of fuse sizing, could a CLEC have a 150-amp fuse on your  
4 primary power board?

5 A Not on one single feed, no.

6 Q And why is that?

7 A Because of the relationship between -- well, because  
8 of the requirements for coordinated shutdown.

9 Q If I had a -- for example, take AT&T as an example.  
10 AT&T puts its own BDFB. It fuses that BDFB at 50 amps, or even  
11 40 amps just to be clear. Even using your 3-to-1 ratio, then I  
12 could still utilize a 150-amp fuse on the main power board?

13 A That is correct.

14 Q But BellSouth doesn't do that because that is not its  
15 practice, is that correct?

16 A I think we are getting confused. Are we talking  
17 about the main power board?

18 Q On the main power board you will not put in a 150-amp  
19 fuse on the main power board?

20 A I don't know that there is such a thing as one  
21 150-amp fuse, but we will put fuses up to 225 amps on a single  
22 feed.

23 Q Now, that is in a BDFB, is that correct?

24 A Yes.

25 Q Now, on the main power board if AT&T puts in its own

1 BDFB --

2 A Okay.

3 Q -- it has no choice under BellSouth's current  
4 practices except a 225-amp fuse?

5 A Correct.

6 Q Even though it could -- based on what it has its BDFB  
7 use fused at, could use a lower fuse on the primary power  
8 board?

9 A That is correct.

10 Q Now, based on your policy of charging by fused amps,  
11 then what happens is I only need a 150-amp fuse, but you are  
12 charging me for 225, is that correct?

13 A If you take it from the power board. But you could  
14 take your same BDFB and attach it to a BellSouth BDFB and buy  
15 smaller increments of power.

16 Q Now turn over to Page 8 of your direct testimony.

17 A Okay, I'm there.

18 Q On Line 14 you make reference to the National  
19 Electrical Code?

20 A Yes.

21 Q Is it your contention there that the National  
22 Electric Code requires a 225-amp fuse?

23 A No. What the code requires is coordinated shutdown.

24 Q And so that 225-amp fuse is not dictated by the code  
25 one way or the other as long as the relationship between your

1 upstream and downstream fuses remains at a 3-to-1 ratio?

2 A If you only look at that in isolation, then you would  
3 come to that conclusion. If you look at the question of what  
4 the maximum fuse size ought to be and, again, referring back to  
5 the Hinsdale incident, then you use both of those criteria.

6 Q Are you familiar with a document that is titled  
7 electrical system coordination primer for collocation?

8 A Yes.

9 Q Okay. I'll be handing that document out.

10 MR. HATCH: Madam Chairman, could I request a number  
11 for identification.

12 CHAIRMAN JABER: Get it distributed first, and  
13 then -- you are not done with this document, with this folder?

14 MR. HATCH: Not entirely. I may not be.

15 CHAIRMAN JABER: Okay. Electrical system  
16 coordination primer for collocation is identified as Hearing  
17 Exhibit 16.

18 (Exhibit 16 marked for identification.)

19 BY MR. HATCH:

20 Q Do you know when this document was drafted?

21 A No. I have seen the current version fairly recently,  
22 but I'm not sure when the first iteration was produced.

23 Q I think in response to discovery it was identified as  
24 having been written in January of 2003. Would that be  
25 accurate?

1 A That sounds right, yes.

2 Q When did you file your testimony, your direct  
3 testimony would have been filed in December of 2002?

4 A That's right, yes.

5 Q And in our discovery request we asked you for support  
6 for your coordinated shutdown and your fuse sizing and you  
7 identified this document as support. How is it that this  
8 document being drafted after you filed your testimony supports  
9 the testimony that you filed? It appears as though you were  
10 relying on a document that didn't exist.

11 A Well, I may have been looking at draft exhibits. I'm  
12 not sure precisely what date this document was released. Also  
13 my testimony was written in conjunction with other subject  
14 matter experts at BellSouth who contributed to this document.

15 Q Could you turn over to Page 5 of 10?

16 A Yes, I'm there.

17 Q And there is a discussion in the middle of that page  
18 dealing with the National Electrical Code, is that correct?

19 A Yes.

20 Q Now, the National Electrical Code in its scope  
21 statement exempts central office equipment, is that correct?

22 A It does. Although state PSCs in some cases have  
23 created their own rules which require the code, such as here in  
24 Florida.

25 Q But the National Electric Code itself doesn't apply?

1           A     The national code exempts telecommunications  
2 equipment.

3           Q     Right. Now, there is a statement there basically in  
4 a discussion regarding the potential for that exemption being  
5 eliminated, and it says the wanton disregard of the NEC by the  
6 CLEC community. Do you see that?

7           A     I see it.

8           Q     Do you have any evidence or can you tell us for  
9 BellSouth that that statement is accurate?

10          A     I will agree with you it is a fairly inflammatory  
11 statement. I would have not made that statement, but  
12 unfortunately we have had incidences where the practices of  
13 CLECs in our central offices did not conform to our own  
14 practices and we had to step in and ask for changes to be made.

15          Q     Now, down in there later in the substantiation  
16 paragraph there, do you see that?

17          A     I see it, yes.

18          Q     It makes the statement there that almost every office  
19 is no longer under the exclusive control of the communications  
20 utility. Do you see that?

21          A     Yes.

22          Q     Would you consider that statement to be accurate?

23          A     Yes and no, I guess.

24          Q     Was that a yes or was that a no?

25          A     It was a yes and no. I mean, ultimately, BellSouth

1 according to the rules that this Commission has adopted and the  
2 FCC rules has given certain rights exclusively to BellSouth.  
3 For example, determining where in a central office collocation  
4 will occur. In other cases those same regulatory agencies have  
5 given some, you know, some amount of participative control to  
6 ALECs. So it is not exclusively one way or the other.

7 COMMISSIONER DAVIDSON: Chairman, I have a question  
8 here if I may ask.

9 CHAIRMAN JABER: Commissioner Davidson.

10 COMMISSIONER DAVIDSON: And you may have covered this  
11 and I apologize if I missed it. Who prepared Hearing Exhibit  
12 16?

13 THE WITNESS: Some of our subject matters experts at  
14 BellSouth. I did not.

15 COMMISSIONER DAVIDSON: So this is a pure BellSouth  
16 document?

17 THE WITNESS: It is, yes.

18 COMMISSIONER DAVIDSON: And when was it prepared?

19 THE WITNESS: Well, it was issued, I believe, the  
20 early part of this year, January or so.

21 COMMISSIONER DAVIDSON: January you say of 2003?

22 THE WITNESS: Yes, sir.

23 COMMISSIONER DAVIDSON: Thank you.

24 BY MR. HATCH:

25 Q Now, if you will turn over to -- actually I will be

1 dealing with Page 7 of 10 and also 8 of 10. But turn to 8 of  
2 10 for the moment?

3 A Page 8 did you say?

4 Q Page 8, yes, of 10.

5 A Okay, I'm there.

6 Q Now, there about midway down it talks about the  
7 3-to-1 ratio that we mentioned before, is that correct? Do you  
8 see that?

9 A Yes.

10 Q And that discussion throughout that whole page  
11 basically is of the various fuse types that now essentially  
12 because of their time current characteristics will comply with  
13 coordinated shutdown requirements, is that correct?

14 A Yes, you are correct.

15 Q And that is what allows you to offer up to a 100-amp  
16 fuse on a BDFB, is that correct?

17 A That's right.

18 Q Because that 100-amp fuse, that TPL fuse has a --  
19 essentially its mechanical characteristics give it a 2-to-1  
20 ratio?

21 A It is more tolerant of small -- or not small, but  
22 short overloads.

23 Q Now, go to Page 9 of your direct testimony.

24 A Okay.

25 Q Now, at Line 5 you make the reference there that

1 there is a 60-amp fuse in a BDFB serving equivalent bays and  
2 that you need at least a 180-amp stream device to serve that  
3 BDFB?

4 A Yes.

5 Q And that is because of your 3-to-1 ratio, right?

6 A That's right. This whole paragraph is talking about  
7 TPS fuse types, yes.

8 Q Okay. Now, if you -- and that is because the TPS  
9 fuse type is different from your old NON fuse type, right?

10 A That's right, yes.

11 Q Now, if you had a 60-amp NON fuse, then would you  
12 have to comply with that 400 percent requirement, the old  
13 4-to-1 ratio in your standards?

14 A Yes. If you were using NON type fuses, yes.

15 Q Look at Line 8 on Page 9 for just a moment.

16 A Line 8, did you say?

17 Q Line 8, that is correct.

18 A All right.

19 Q And it says common support equipment require a 40-amp  
20 drain. That would be a List 2 drain, would that be correct?

21 A Yes.

22 Q Okay. Going to Page 12 of your direct testimony.

23 A Okay.

24 Q Now, there it says, again, the protection device is  
25 sized at one and a half times the anticipated drain, which



1 would be the List 2 drain, correct?

2 A Yes.

3 Q And then you explain how you compensate in your power  
4 charge for the fuse versus the List 2 drain by multiplying that  
5 times .6667, is that correct?

6 A Correct, yes, to mathematically correct for that.

7 Q Now, when you make that adjustment, it adjusts it  
8 down to the List 2 drain, isn't it true that the ALEC on normal  
9 operations will only experience or typically will experience  
10 List 1 at most?

11 A That is correct.

12 Q And List 1 is always less than List 2?

13 A Yes.

14 MR. HATCH: The pregnant pause is because I am  
15 killing things that have already been done, so I'm saving us  
16 all time.

17 CHAIRMAN JABER: Thank you.

18 BY MR. HATCH:

19 Q Now, go down to Line 16. Starting at the end of Line  
20 15 and onto to 16 you make the statement that the ALEC is not  
21 paying for any more power capacity than what the equipment  
22 requires. Do you see that?

23 A Yes.

24 Q Now, at a normal operational scenario the steady  
25 state load will be at most a List 1 drain, is that correct?

1 A It will be close to that if not exactly that, yes.

2 Q And you are charging us a fused amp based on List 2  
3 drain, which is larger than a List 1 drain?

4 A Yes.

5 Q So that statement isn't completely accurate?

6 A Well, I believe it is. What the statement says is  
7 what the equipment requires. The equipment requires a power  
8 feed that is sized at one and a half times those drains, so I  
9 stand by the statement.

10 Q The equipment will not, under normal circumstances,  
11 draw any more than List 1, but we are paying for List 2 which  
12 is larger?

13 A Correct. Because to conform with safety codes, like  
14 the NEC, you will size power feeders larger than the steady  
15 state drain that a piece of equipment actually has at a moment.

16 Q And at List 2 the equipment will actually fail, is  
17 that correct?

18 A At some point at that level or above that level, yes.

19 Q Now, move on down to Line 22 for me, please.

20 A I'm there.

21 Q Okay. It says there are no meters attached to  
22 individual power circuits from a BDFB, is that correct?

23 A That's what it says, yes.

24 Q That is the metering that we kind of talked about a  
25 little bit earlier in this discussion?

1           A     Yes. Metering that could show accumulated usage of  
2 power on that lead, yes.

3           Q     I have another document to hand out.

4           A     Thank you.

5           Q     Now, before we get to this document -- I'm sorry, you  
6 are reading it, so if you want to --

7           A     I am familiar with it, yes.

8           Q     Is it correct that BDFBs are equipped with meters so  
9 that you can check the power consumption on a BDFB?

10          A     You can check it an instantaneous power demand at the  
11 BDFB with the metering that is there. What you cannot check is  
12 the amount of usage over time.

13          Q     It is not a cumulative meter?

14          A     Exactly. It is not like the meter on the side of  
15 your house that has little clocks that show you how much power  
16 has been consumed.

17          Q     You are aware, of course, that the State of Tennessee  
18 has required BellSouth to meter power on a usage basis?

19          A     Yes, I am familiar with that.

20          Q     And Georgia has recently done the same thing, is that  
21 correct?

22          A     That is correct.

23          Q     Are you aware that Illinois has also done that?

24          A     I heard that this morning. I was not aware of that,  
25 no.

1 Q Now, have you investigated metering equipment for  
2 purposes of metering individual CLEC usage in a CO?

3 A Yes, we have.

4 Q What have your -- what has your research shown you?

5 A Well, that there are devices that, you know, they are  
6 not inexpensive, but the existing meters that things like BDFBs  
7 come equipped with don't do the job. If you walk over, it will  
8 tell you how many amperes of drain that is passing through that  
9 meter at that moment. It doesn't say how much was used ten  
10 minutes ago or ten days ago. But there are devices, and we are  
11 not opposed to paying those so long as we recover the cost of  
12 doing that, and whatever expense there is in reading those  
13 meters to render a bill with, that we recover those costs as  
14 well.

15 Q Are you aware of a piece of equipment manufactured by  
16 Marconi that is or performs cumulative metering with a remote  
17 monitoring capability?

18 A I have heard of that, yes.

19 Q Can you tell me what you believe the cost of that to  
20 be?

21 A I don't recall seeing the price. I read it on their  
22 website, so there was not a price there.

23 Q Would it surprise you that the price of that is about  
24 \$3,100 per CLEC?

25 A Well, per device. I don't know if that is per CLEC

1 or not because there are limits to how much equipment can be  
2 monitored by that one device.

3 Q Now, turning to this document --

4 MR. HATCH: Madam Chairman, could I have a number for  
5 identification, please? This would be BellSouth's response to  
6 AT&T's Interrogatory Number 37.

7 CHAIRMAN JABER: And that will be identified as  
8 Hearing Exhibit 17.

9 (Exhibit 17 marked for identification.)

10 BY MR. HATCH:

11 Q Now, this interrogatory response indicates that all  
12 BellSouth central offices are equipped with power monitors that  
13 are capable of measuring, storing current for all loads  
14 connected to the power board, is that correct?

15 A Yes. At the aggregate amount, yes.

16 Q And so for each of your power boards you remotely  
17 monitor essentially the electrical load on those boards?

18 A We have that capability, yes.

19 Q Do you do that today?

20 A I'm not sure who would. I don't know the answer to  
21 that.

22 Q Now, this indicates that all of the monitors are  
23 equipped for remote access. So that -- by remote access, would  
24 that mean that an engineer sitting in his office, for example,  
25 could access the monitors via computer from a data feed and

1 essentially review all of that information remotely?

2 A With the right telemetry one might, yes.

3 Q Now, if AT&T has a BDFB, that BDFB would be fed by  
4 one of your power boards, is that correct?

5 A Ultimately, either directly or through a different  
6 BDFB.

7 Q And according to this interrogatory response, that  
8 power board is equipped for monitoring today?

9 A Yes, but what it is not capable of doing is splitting  
10 out that monitored load by power feed and knowing exactly who  
11 used what. It is at the aggregate level.

12 Q Explain to me what you mean by the aggregate level?

13 A Well, the device, that monitor measures, you know,  
14 all the consumption at that power board. If that power board  
15 serves a variety of different users, ALECs and BellSouth  
16 combined, it doesn't split that out and say, BellSouth, you  
17 used 10 percent of that and ALECs used 80 percent. It just  
18 shows the aggregate, the total demand.

19 Q Go back to the document, the TR73503 for a moment,  
20 please.

21 A Okay.

22 Q Look at Paragraph 4.10.

23 A Okay, I'm with you.

24 Q Now, 4.10 says all breakers of 100 amperes or greater  
25 must be 100 percent ampacity rated and be equipped with the

1 following. Now, Paragraph B under that says a shunt to  
2 facilitate the remote reading of the drains associated with  
3 that distribution unit, is that correct?

4 A Yes.

5 Q Now, if you turn over to 4.16?

6 CHAIRMAN JABER: Mr. Hatch, just because I don't know  
7 what is and is not confidential in this document, is it okay  
8 for you to be reading from it?

9 MR. HATCH: I am assuming, yes, because my  
10 conversation with counsel for BellSouth said that while the  
11 document shouldn't be in the public domain so that anybody  
12 could pick up a copy of it, the basic content of the  
13 information wasn't necessarily proprietary, and I was relying  
14 on her to tell me when I was running astray.

15 MS. WHITE: He is all right so far.

16 CHAIRMAN JABER: Thank you.

17 MR. HATCH: And it won't go much further than the  
18 next question.

19 CHAIRMAN JABER: That's fine, I didn't know. So what  
20 was your next question?

21 BY MR. HATCH:

22 Q In 4.16, that one says that all fuses and circuit  
23 breakers of greater than 100-ampere, except for the main  
24 switch, such as a DMS, ESS, EWSD, which are switches, is that  
25 correct?

1 A That is what it says, yes.

2 Q And it says shall be monitored?

3 A Correct.

4 Q Now, if AT&T has its own BDFB and it feeds off of one  
5 of BellSouth's power boards, it would be equipped with a  
6 breaker of 225 amps, is that correct?

7 A That's right.

8 Q So according to your standards that breaker should be  
9 monitored today based on these standards?

10 A Based on this standard, yes.

11 Q Now, turning back to Exhibit 17 in your response to  
12 AT&T's Fifth Set of Interrogatories, Number 37, the last  
13 sentence in the second paragraph says while power monitors are  
14 not power meters, they could be used to estimate power usage by  
15 a busy hour average current drain. Do you see that?

16 A Yes.

17 Q And so the monitoring capability that is there today,  
18 while not a cumulative monitor, can be utilized to essentially  
19 approximate actual usage, is that correct?

20 A With some qualification, yes. If you want to sample  
21 the usage and the sample size is sufficient, then yes, you can  
22 start to approximate the actual amount of power used. The  
23 smaller the sample size the less accurate that sampling  
24 becomes.

25 Q Does BellSouth routinely monitor all breakers of 100



1 amps and bigger in its offices today?

2 A I don't know the answer to that.

3 Q Do your power engineers remotely monitor the  
4 performance of your power plant in any fashion?

5 A I don't know.

6 Q Doesn't it seem like that is something they should be  
7 doing?

8 A Well, your question was should they do it remotely or  
9 not. They should be monitoring the drains on the power  
10 equipment and they should be doing that routinely. Should they  
11 be doing it remotely or not is a different question.

12 Q Wouldn't it be so much easier and more efficient to  
13 do it remotely?

14 A Not necessarily.

15 Q Even though your practices require it?

16 A Well, the practices require that capability, yes.

17 What we are stuck with is practices that are -- we are looking  
18 at two or three different snapshots in time here. One as old  
19 as 1997, and others that are just a few weeks or months old.

20 Q In a forward-looking TELRIC environment where you are  
21 doing least cost, most efficient, wouldn't that suggest to you  
22 that remote monitoring capability would be the most efficient?

23 A Yes, so long as those costs are recognized in the  
24 pricing formula itself, yes.

25 MR. HATCH: One quick moment. I think I can

1 eliminate a whole section here.

2 CHAIRMAN JABER: Go ahead.

3 MR. HATCH: I will be handing out another document  
4 here if I could get a number, please, as soon as you get it.  
5 This is actually an interactive exhibit. You will enjoy this  
6 one, I hope.

7 CHAIRMAN JABER: Okay. I missed what you said, Mr.  
8 Hatch, about this exhibit.

9 MR. HATCH: It will be an interactive exhibit.

10 CHAIRMAN JABER: Okay. So we don't need to try to  
11 identify it right now.

12 MR. HATCH: I would mark it for identification. It  
13 would be the power example for BellSouth would be the title.

14 CHAIRMAN JABER: BellSouth Power Example, Hearing  
15 Exhibit 18.

16 (Exhibit 18 marked for identification.)

17 BY MR. HATCH:

18 Q What this is designed to be is a simple example of  
19 what a CLEC might do in its collocation space currently.

20 A Okay.

21 Q And the box that says -- where you see the shelf  
22 equipped with cards and the equipment designation, consider  
23 that to be a bay, one bay in a collocation spot.

24 A Okay.

25 Q Now, as you can see, the first shelf would be

1 equipped with cards. In this example, the second shelf would  
2 have a shelf, but no cards are there yet, anticipating growth,  
3 and the second two spaces would be vacant awaiting future  
4 equipment to be installed.

5 Now, based on a manufacturer's List 1 drain -- or  
6 List 2 drain, List 2 drain would be what we would report to you  
7 for power, is that correct?

8 A Yes, you would report that to us.

9 Q So, based on the numbers here for List 1 and List 2,  
10 what would be the reported drain?

11 A The reported drain would be 10 amps.

12 Q Okay. You can fill in that blank with 10.

13 MS. WHITE: I'm sorry, I just didn't hear that. The  
14 reported drain would be what?

15 THE WITNESS: Would be 10 amps.

16 BY MR. HATCH:

17 Q And what would be the usage?

18 A The total usage?

19 Q Yes, for the first shelf.

20 A Just for the first shelf would be 4 amps.

21 Q And there is no usage on any of the others. One is  
22 not equipped with cards and there isn't any equipment there?

23 A In your example, yes.

24 Q Correct. Now, based on the reported drain of 10,  
25 what size power cable would be ordered?

1           A     I can't determine that because I don't know the  
2 length of the power cable.

3           Q     What size fuse would you order?

4           A     A fuse of 15 amps would be provided.

5           Q     Right. Now, this is all premised on this piece of  
6 equipment being served by a BellSouth BDFB.

7           A     Okay.

8           Q     Now, if this same piece of equipment were being  
9 served by an -- well, let me step back. And so based on  
10 BellSouth's current billing policy, you would be billing us 15  
11 times .6667, is that correct?

12          A     Yes. Times the per amp rate, yes.

13          Q     Whatever the relevant rate is.

14          A     Correct.

15          Q     So if we assume just for -- let me see if the math is  
16 correct. I should have picked easier numbers so that the  
17 numbers would work out better. That would be 10. We would  
18 get -- 10 amps is what we would be billed for, is that correct?

19          A     Yes.

20          Q     Now, if AT&T took this same example and it was served  
21 from an AT&T BDFB, then the BDFB that belongs to AT&T would be  
22 fused at 225 amps, correct? We had talked about that earlier.

23          A     If it were attached to the power board, yes.

24          Q     Attached to the power board. Now, based on this  
25 example, assuming an AT&T BDFB, then we would be billed for 225

1 amps?

2 A That's right.

3 Q Now, the usage in the first example served off a  
4 BellSouth BDFB is exactly the same as the usage in the AT&T  
5 BDFB example.

6 A Okay.

7 Q But the cost to AT&T is dramatically different.  
8 Would you agree with that?

9 A Yes, given AT&T's choice of powering that from the  
10 power board, yes.

11 Q Now, look at Page 16 of your direct testimony.

12 A Okay, I'm with you.

13 Q Now, at Lines 5 through 8, you make the statement  
14 that BellSouth is obligated to provide for the ALECs -- or  
15 fused amperage is what BellSouth is obligated to provide for  
16 the ALEC's use, is that correct?

17 A Yes.

18 Q That does not mean that you are required to bill on  
19 fused amperage, is that correct?

20 A It doesn't mean that. I mean, an economically  
21 rational would try to recover its costs, but it doesn't mean we  
22 are required to do that.

23 Q Let's talk about that for a second, because we are  
24 sort of straying into the second half of this proceeding and  
25 the cost study part, but we have made reference to recovery of

1 costs and so forth and I want to talk about that a little bit.  
2 In general terms, when you construct the cost study for  
3 collocation, you aggregate essentially all of your costs in  
4 providing power, and that would be -- your AC power is one  
5 component we discussed earlier?

6 A Yes.

7 Q You would have batteries, you would have rectifiers,  
8 and some internal cabling to your primary power boards, is that  
9 correct?

10 A Yes.

11 Q Okay. Now, all of that is rolled up into a number  
12 that is then spread across the total number of amps produced by  
13 the plant?

14 A Yes. There are other devices, as well, the backup  
15 generator and such. But, yes, all of that is relevant.

16 Q The generator, I forgot to include that. And then  
17 all of that is recovered on a per amp basis?

18 A That's right, yes.

19 Q So now if I pay you for 225 amps, or if I pay you for  
20 one amp, every amp I pay you is recovering all the components  
21 of your cost, and the only difference is the time over which  
22 you recover them, is that correct?

23 A Yes.

24 Q So if you bill on a usage basis instead of a fused  
25 capacity basis you are not deprived of any cost-recovery, it is

1 just you don't get it as fast as you might otherwise desire, is  
2 that correct?

3 A Not entirely, no.

4 Q What cost are you deprived of?

5 A You are deprived of the time value of your money  
6 between when BellSouth installs the investment and when the  
7 ALEC starts to use it.

8 Q Look at your rebuttal for just a second.

9 A Okay.

10 Q I'm getting actually close to the end, believe it or  
11 not. Hopefully. Page 4. I just have one quick question here.

12 A All right, I'm with you.

13 Q Where it says -- or down at Lines 9 through 11 you  
14 make the statement anything higher than 60 amps would require a  
15 combination of various sized fuses to achieve that desired  
16 total. Do you see that?

17 A Yes.

18 Q How would you accomplish that, what would that be?

19 A What do you mean? Well, you would use more than one  
20 fuse device on a given power feed.

21 Q To create a multiple -- to create a total fuse size  
22 increment, is that correct?

23 A Yes. And so long as you don't mix and match fuse  
24 types, you're okay.

25 Q Let me show you a copy of a piece of the National

1 Electrical Code 240.8, do you have that?

2 A Well, actually this is my own copy. This is not the  
3 2002 version.

4 Q I've got a 2002. I'm not sure that this will have  
5 changed.

6 A I don't know they would. What was the reference  
7 again?

8 Q 240.8.

9 A Okay.

10 Q In my copy it is titled fuses or circuit breakers in  
11 parallel. Do you see that?

12 A Yes.

13 Q Now, it says at the bottom of that section,  
14 individual fuses, circuit breakers, or combinations thereof  
15 shall not otherwise be connected in parallel. Do you see that?

16 A Yes.

17 Q My question is if you do combinations of fuses, as  
18 per your testimony, doesn't that run afoul of this provision in  
19 the National Electric Code?

20 A In my view, no. Not so long as the fuse holders are  
21 all manufactured to accommodate the same fuse type.

22 Q Could you explain that a little bit for me?

23 A Sure. The different fuses or different fuse types  
24 have different holders. And so long as the same fuses were  
25 used in the same kind of holder, that is the appropriate fuse



1 was used in the right kind of holder, you can add the fuses  
2 together to reach the desired fusing level. And in my view  
3 that does not constitute a violation.

4 COMMISSIONER DEASON: I'm sorry, you said that does  
5 not constitute what?

6 THE WITNESS: Does not constitute a violation of the  
7 NEC.

8 BY MR. HATCH:

9 Q We are getting close to the end now. So, Page 10 of  
10 your rebuttal. I'm going to talk about AC power for just a  
11 second.

12 A Ten in the rebuttal, did you say, Mr. Hatch?

13 Q Yes. That is the issue dealing with an ALEC's  
14 desiring to have AC power.

15 A I'm there, yes.

16 Q You make the statement essentially that CLECs  
17 shouldn't have an AC power feed to their collo space for  
18 purpose of converting to DC power for their equipment, is that  
19 correct?

20 A Yes.

21 Q And could you explain why you believe that?

22 A Sure. First, there are raised some safety issues.  
23 These devices that convert from AC to DC release heat, and so  
24 generally all of our rectifiers, which is the device that does  
25 that, are put in one place. And those power rooms are not in

1 the middle of the equipment line-up, so that is the first  
2 reason is that there are some safety issues raised. Second, I  
3 don't know that it is required, because we already provide DC  
4 feeds, and our DC feeds are backed up with batteries and  
5 generators. To accomplish that same result or to have that  
6 same level of redundancy the ALEC would have to invert the AC  
7 to DC and would also have to have batteries for temporary  
8 losses of commercial power and other sustainable means, such as  
9 generators if they wanted longer term backup in the case of  
10 loss of AC.

11 Q Now, assume this. A CLEC wants to convert AC power  
12 to DC in its space and it can purchase a commercially available  
13 AC to DC converter to power his DC equipment in his space.

14 A Okay.

15 Q And he doesn't want any kind of battery, doesn't want  
16 any kind of power plant, he just wants an AC to DC converter.  
17 Would that be objectionable to you?

18 A Not so long as you can do that in a way that conforms  
19 with the electrical codes and safety codes.

20 Q Isn't it correct that BellSouth is, in fact, doing  
21 that for a CLEC in Louisiana?

22 A That is my understanding, yes.

23 COMMISSIONER DAVIDSON: Chairman, I have one question  
24 on this line of questioning. Does BellSouth have any AC  
25 powered equipment in their own central office space?

1 THE WITNESS: Yes, sir, inside our central offices,  
2 but the equipment that converts from AC to DC we put in our  
3 power rooms which are separate and apart from where the rest of  
4 the equipment is housed. They are either on a separate floor,  
5 sometimes in the basement, or at least in a separate part of  
6 the floor.

7 COMMISSIONER DAVIDSON: Thank you.

8 BY MR. HATCH:

9 Q Going back to the AC power versus your facilities  
10 that we talked about at great length this morning. In terms of  
11 billing from the space ready date for power, your reasoning was  
12 is you have made the capital investment and so, therefore, you  
13 should start your recovery immediately, is that correct?

14 A Yes.

15 Q Okay. In developing the cost study for this  
16 proceeding, was there built into it a utilization factor that  
17 accounts for the fact that your power plant will not be used at  
18 100 percent all the time?

19 A I don't know, I doubt it.

20 Q Why would you not use the utilization factor?

21 A Well, because the utilization factor is going to  
22 change to influences outside of BellSouth's control. That  
23 utilization factor is a function of when the ALEC puts its  
24 equipment in, and when it powers it up, and how much equipment  
25 it puts there, and decisions that BellSouth has no direct

1 control over.

2 Q If you don't have a utilization factor in your cost  
3 study that yields, you know, whatever rate yields with that,  
4 then if you don't run your power plant at 100 percent all the  
5 time, then do you not risk underrecovery of your investment?

6 A Well, I am not the cost witness, and I didn't do the  
7 cost study, but I suppose, yes, I will agree with you that if  
8 there is not a utilization factor that is the inverse of what  
9 is actually being used, then that is a possibility. My  
10 understanding is that since we are presuming that all that you  
11 order is being used, then we are not underrecovering, we are  
12 recovering.

13 Q So if there is a utilization factor in there, just  
14 assuming that there is, then that difference between space  
15 ready date and when we actually start using power should be  
16 accounted for in the utilization factor?

17 MS. WHITE: Chairman Jaber, I'm going to object to  
18 any more questions along this line. First of all, I think it  
19 calls for speculation, because Mr. Milner has already said he  
20 is not the cost witness. And, second of all, I think we are  
21 going -- we have gone down this road, and I think we keep going  
22 further and further to what is going to be the subject of the  
23 hearings in November. So I would object to anymore questioning  
24 along this line.

25 MR. HATCH: Madam Chairman, there has been extensive

1 discussion about the time value of money, and he has got  
2 capital investment and he needs his money now versus waiting  
3 until we start drawing power. I think this is well within  
4 those bounds.

5 CHAIRMAN JABER: Ms. White, I have to tell you, I  
6 agree. I'm going to overrule your objection. This witness has  
7 time and time again, because I have heard you say as long as  
8 the costs are allowed there is the incremental time value of  
9 money, so I will allow the question. But, Mr. Hatch, I do need  
10 you to wrap up this line.

11 MR. HATCH: It's almost there.

12 CHAIRMAN JABER: Promises, promises. You have said  
13 that now.

14 MR. HATCH: Yes, but now I have a blank sheet to show  
15 you. We are almost there.

16 THE WITNESS: Could you repeat your last question,  
17 please.

18 BY MR. HATCH:

19 Q I hate it when I forget a good question. I guess my  
20 question is assuming the cost study includes the utilization  
21 factor, then that utilization factor would account for the time  
22 value of money and the lack of your recovery between the point  
23 when space ready date is and you begin billing for actual  
24 usage?

25 A Well, that is a possibility. Let me explain just

1 very briefly that that would presume that all ALECs generally  
2 start to use their equipment in the same time frame, that they  
3 install it and start using it at the same general time frame;  
4 that is, one ALEC doesn't wait a year and another one does it  
5 in two days.

6 Q Now, one wrap up just to clarify something that  
7 occurred to me from earlier in one of our conversations. In  
8 terms of within a BellSouth central office when work is  
9 performed, be it cabling, or installation of CLEC equipment,  
10 all of that is done by BellSouth certified vendors, is that  
11 correct?

12 A That is correct.

13 MR. HATCH: That's all I've got.

14 Thank you, Madam Chairman.

15 CHAIRMAN JABER: Before I get to staff, Ms.  
16 Masterton, I was reading through the testimony again, and it  
17 occurred to me you are in this docket as an ALEC and an ILEC.  
18 I hope I haven't been leaving you out in terms of  
19 cross-examination. I have been depending on you to tell me.

20 MS. MASTERTON: No, that's right, I would have said  
21 something. Thank you, though.

22 CHAIRMAN JABER: Staff.

23 CROSS EXAMINATION

24 BY MR. TEITZMAN:

25 Q Good afternoon, Mr. Milner.

1 A Good afternoon.

2 Q I have been waiting patiently to ask you some  
3 questions. I'm afraid I only have three left. They are quite  
4 scattered.

5 I would like to start off with your direct testimony,  
6 the last sentence of Page 12 as it continues on to the top of  
7 Page 13. There you state that metering of central office power  
8 to each ALEC's collocation arrangement is not economically  
9 feasible for an ALEC, assuming that the ALEC is engineering its  
10 power circuits to match its equipment demands.

11 A Yes.

12 Q In your opinion, under what circumstances, if any,  
13 would it be economically feasible for a CLEC to meter central  
14 office power delivered to a CLEC's collocation arrangement?

15 A Okay. It would be -- it would be feasible if the  
16 cost of the monitoring equipment, the measuring device is the  
17 meter readers, the changes to the billing systems, and all of  
18 that was less than the differential that they might be paying  
19 for the difference between the expected level and what they are  
20 using at a given moment or day.

21 Q Thank you. To your knowledge, is BellSouth currently  
22 metering DC power for any CLECs?

23 A I don't think there are any arrangements like that in  
24 place. We are negotiating with a couple of CLECs. ALECs,  
25 rather.

1 Q And where would that be located, what state?

2 A One in Tennessee. The negotiations with the other  
3 ALEC were not state specific, so potentially in any of our nine  
4 states.

5 Q And my final question, in Florida does BellSouth  
6 purchase power from electric company interruptible tariffs?

7 A I'm not positive either way.

8 CHAIRMAN JABER: I thought, Mr. Milner, when you were  
9 describing -- I think in response to Commissioner Deason's  
10 question earlier, I think it was Commissioner Deason, when you  
11 were talking about agreeing to come off the grid for certain  
12 periods of time during peak, I took your testimony to be that  
13 you take advantage of the FPL interruptible rate.

14 THE WITNESS: Yes. And I know we are doing that in  
15 Georgia. I'm just not sure if we are doing it here or not.

16 CHAIRMAN JABER: I see.

17 MR. TEITZMAN: Thank you. No further questions.

18 CHAIRMAN JABER: Commissioners, do you have  
19 questions? Commissioner Davidson.

20 COMMISSIONER DAVIDSON: Thank you. One question to  
21 staff, and a follow-up question to the witness. To staff, if  
22 you turn to Page 22 of the prehearing order, on Issue 4  
23 BellSouth's position is that ILECs are not required to  
24 accommodate requests for non-fiberoptic facilities to be placed  
25 in the ILEC's entrance facilities unless the Commission



1 determines in a particular case that this placement is  
2 necessary.

3           The first question, is that statement a proper and  
4 thorough statement of the FCC rules in Dockets 96-98 and  
5 91-141?

6           MS. KEATING: I'm sorry, Commissioner, you will have  
7 to give us just a minute, if that is all right, to pull the  
8 rule.

9           COMMISSIONER DAVIDSON: Okay. That is, and we can  
10 come back to that. And I will ask the witness, I just have one  
11 hypothetical question that Mr. Hatch basically stated, but I  
12 would like to just make the record clear on this point. And  
13 the hypothetical is if a CLEC sought an AC power feed to its  
14 collocation space and agreed to pay the cost of installing that  
15 power feed, would BellSouth have any objection to the CLEC  
16 converting DC power to AC power, assuming such conversion was  
17 done according to code and would not negatively impact  
18 BellSouth's equipment?

19           THE WITNESS: No, we would have no objection to that.

20           COMMISSIONER DAVIDSON: Thank you. And with that,  
21 Chairman --

22           CHAIRMAN JABER: No other questions?

23           COMMISSIONER DAVIDSON: -- no other questions.

24           CHAIRMAN JABER: Ms. Keating, if you could just let  
25 us know when you are ready, we will get back to that answer.

1 Commissioners, do you have any other questions?

2 Okay. Redirect.

3 MS. WHITE: Yes, I have just a couple of questions of  
4 on redirect.

5 REDIRECT EXAMINATION

6 BY MS. WHITE:

7 Q Mr. Milner, on Page 9 of your direct testimony,  
8 Line 8, I think this was in answer to a question by Mr. Hatch.  
9 You all were discussing the 40-amp drain and the 60-amp  
10 protection device at the BDFB?

11 A Yes.

12 Q It's on Line 8 of Page 9 of your direct.

13 A Right.

14 Q Is the 40-amp drain, the List 1?

15 A No, that would normally be List 2.

16 Q The List 2?

17 A Yes.

18 Q And 60-amp protection device would be --

19 A Would be one and a half times that amount.

20 Q Okay. On Page 12 of your direct testimony, Line 3,  
21 you talk about how fuse type protection devices are sized and  
22 then how they are billed. When you say on line -- it is Page  
23 12, Line 3.

24 A I'm there, yes.

25 Q When you say that they are sized at one and a half

1 times the anticipated drain, are you speaking of drain one or  
2 drain two?

3 A Again, I am referring to two. It says operated at  
4 its full capacity.

5 Q Okay. And the last question I had was actually a  
6 nonpower question, and it is back to a question Mr. Watkins  
7 asked you about copper entrance facilities. Are copper  
8 entrance facilities required to provide DSL service?

9 A No, there are other ways of providing it rather than  
10 all copper loops.

11 MS. WHITE: Thank you. And that's all I have.

12 CHAIRMAN JABER: Let's discuss exhibits. Covad  
13 Exhibit 14, you agreed not to admit it into the record.

14 MR. HATCH: AT&T would move 15, 16, 17, and 18.

15 CHAIRMAN JABER: Hang on a second. Correct, Covad,  
16 Exhibit 14 is the Covad hypothetical exhibit. You agreed not  
17 to move it into the record, is that correct?

18 MR. WATKINS: Yes, Madam Chairman.

19 CHAIRMAN JABER: Okay. And AT&T Exhibit 15 is the  
20 confidential exhibit?

21 MR. HATCH: That is correct.

22 CHAIRMAN JABER: Without objection, Exhibit 15 is  
23 admitted into the record. Exhibits 16, 17, and 18 are public  
24 documents, and without objection Exhibits 16 through 18 are  
25 admitted into the record.

1 Mr. Milner, thank you for your testimony.

2 (Exhibit 15 through 18 admitted into the record.)

3 THE WITNESS: Thank you, Madam Chair.

4 CHAIRMAN JABER: That takes us to Edward Fox.

5 Commissioner Davidson, I don't know if your --

6 MS. WHITE: May Mr. Milner be excused?

7 CHAIRMAN JABER: Hang onto that thought. I was just

8 asking Commissioner Davidson, I don't think your question

9 contemplated that Mr. Milner had to stay here?

10 COMMISSIONER DAVIDSON: Correct, Chairman.

11 CHAIRMAN JABER: So, Mr. Milner, you may be excused.

12 MS. KEATING: Madam Chairman --

13 CHAIRMAN JABER: Ready?

14 MS. KEATING: Well, I think so. We are having a  
15 little bit of difficulty finding that exact wording in the  
16 rules themselves. As those orders have been codified in the  
17 rules they don't -- they aren't phrased quite that way, let me  
18 put it that way. I can read you the pertinent provisions.  
19 Would that be of assistance?

20 COMMISSIONER DAVIDSON: I don't need to have the  
21 statement read. I had a follow-up question, but it is really  
22 for staff and they can address this in the staff  
23 recommendation. One, I wanted to know the scope of those two  
24 proceedings, and I'm not surprised that they may be couched  
25 somewhat differently than they are actually drafted. Parties

1 sometimes do that.

2 But, second, have those provisions been applied in  
3 this state, or in other states to research the result that  
4 BellSouth contends they should reach? And that is really a  
5 question I think that can be addressed going forward in the  
6 recommendation as Legal proceeds.

7 CHAIRMAN JABER: And do you want parties to mention  
8 in the briefs, as well, briefs and the rec?

9 COMMISSIONER DAVIDSON: Good idea. Thanks.

10 CHAIRMAN JABER: I think everyone understands  
11 Commissioner Davidson's question. Remind me what issue that  
12 was, Commissioner.

13 COMMISSIONER DAVIDSON: Chairman, it was Issue 4, the  
14 BellSouth position on accommodating requests for non-fiberoptic  
15 facilities, and it was BellSouth's statement that the  
16 request -- or ILECs are not required to accommodate requests  
17 unless the Commission determines in a particular case that the  
18 placement is necessary. And my question went to the precise  
19 holding of the two dockets that were cited and whether those  
20 dockets have been applied using BellSouth's interpretation in  
21 any other state proceedings.

22 CHAIRMAN JABER: Ms. White, I think you have an  
23 opportunity to be more clear in your brief. And, staff, you  
24 have heard the request to address it in the recommendation.

25 MS. KEATING: Certainly, Madam Chairman,

1 Commissioner.

2 CHAIRMAN JABER: Thank you.

3 (The transcript continues in sequence with Volume 3.)

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STATE OF FLORIDA     )  
                                  :  
COUNTY OF LEON     )

CERTIFICATE OF REPORTER

I, JANE FAUROT, RPR, Chief, Office of Hearing Reporter Services, FPSC Division of Commission Clerk and Administrative Services, do hereby certify that the foregoing proceeding was heard at the time and place herein stated.

IT IS FURTHER CERTIFIED that I stenographically reported the said proceedings; that the same has been transcribed under my direct supervision; and that this transcript constitutes a true transcription of my notes of said proceedings.

I FURTHER CERTIFY that I am not a relative, employee, attorney or counsel of any of the parties, nor am I a relative or employee of any of the parties' attorney or counsel connected with the action, nor am I financially interested in the action.

DATED THIS 19th day of August, 2003.



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JANE FAUROT, RPR  
Chief, Office of Hearing Reporter Services  
FPSC Division of Commission Clerk and  
Administrative Services  
(850) 413-6732