		2256
	BEFORE THE FLO	DRIDA PUBLIC SERVICE COMMISSION
	In the Matter	of ) ) DOCKET NO. 980696-TP
	Determination of the basic local telecommu	cost of )
	services, pursuant to	) ( c
Section 364.025, Florida		
	the second second	
		VOLUME 20
	Pag	ges 2256 through 2364
	PROCEEDINGS :	HEARING
	BEFORE :	CHAIRMAN JULIA L. JOHNSON COMMISSIONER J. TERRY DEASON
		COMMISSIONER SUSAN F. CLARK COMMISSIONER E. LEON JACOBS, JR.
		COMMISSIONER JOE GARCIA
	DATE :	Thursday, October 15, 1998
	TIME:	Commenced at 9:00 a.m.
		autor and an Annana Canton
	PLACE:	Betty Easley Conference Center Room 148
		4075 Esplanade Way Tallahassee, Florida
	REPORTED BY:	NANCY S. METZKE, RPR, CCR
	APPEARANCES :	NANCY S. METZKE, RPR, CCR
		s heretofore noted.)
	BUREAU OF REPORTING	Han I have been
	RECEIVED 10-16-98	000

INDEX WITNESSES PAGE NO. NAME DAVID G. TUCEK Cross Examination by Mr. Coker Cross Examination by Mr. Melson . Cross Examination by Ms. McKinney . . Re .rect Examination by Mr. Mitchell. . . KENTON W. DICKERSON Direct Examination by Mr. Rehwinkle . . . Prefiled Direct Testimony Inserted . . . Prefiled Rebuttal Testimony Inserted . . Cross Examination by Mr. Henry . . . Cross Examination by Mr. Ruscus e 10 10 C & N REPORTERS TALLAHASSEE, FLORIDA (850) 697-8314

EXHIBITS - VOLUME 20 NUMBER ID. ADMTD. #78 #79 #80 Exhibit KWD-1, Direct . . chibit KWD-1, Rebuttal . . . . #81 C & N REPORTERS TALLAHASSEE, FLORIDA (850)697-8314

	2259		
1	PROCEEDINGS		
2			
з	(Transcript Continues in sequence from Volume		
4	19).		
5	CHAIRMAN JOHNSON: We are going to get ready to		
6	go back on the record. I think we were, we had marked all		
7	of the exhibits and the witness had been tendered.		
8	MR. COKER: Thank you, Madam Chairman.		
9	DAVID G. TUCEK		
10	continues his testimony under oath from Volume 19.		
11	CROSS EXAMINATION		
12	BY MR. COKER:		
13	Q Mr. Tucek, my name is Gene Coker. I represent		
14	AT&T.		
15	As I understand your task in this proceeding is		
16	to report all the inputs for GTE's BCPM presentation; is		
17	that correct?		
18	A My role is to sponsor all of the inputs that GTE		
19	has offered for use in BCPM and to explain why those inputs		
20	are forward-looking and to explain why this Commission		
21	should recommend company-specific inputs as opposed to		
22	inputs one set of inputs for every carrier in the state.		
23	Q Did you develop all these inputs yourself?		
24	A No, I did not.		
25	Q Did you develop any of them personally?		

I reviewed many -- yeah, many of the inputs, a 1 A substantial number of their development. I am the 2 individual that chose the fill factor for feeder that we 3 had a conversation about during the deposition. 4 Who developed the others? 0 5 We have a team in Dallas who were chirged with 6 A developing the inputs for use in BCPM. They use the same 7 information that other folks might use in Dallas to develop 8 9 inputs for use in our own company cost model, company-specific cost model. 10 Does that team in Dallas work under your 11 0 direction and supervision? 12 A No, they do not. They work under the direction 13 of a gentleman by the name of John Gehagan, G-e-h-a-g-a-n, 14 but I work closely with them in times like these, probably 15 on a daily or hourly basis. 16 Who is Randy Knox and Steve Schroeder? 17 0 You're referring to the people I identified in my 18 A deposition? 19 Yes. 0 20 I misidentified Randy Knox. It should have been A 21 Randy Patton. Randy Patton is, or was a planning engineer 22 for GTE, now heads a group that is part of the model 23 development -- cost model development group in Texas. He 24 is charged in that cost model development to making sure 25

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1 that the cost model is consistent with GTE's engineering 2 practices. Steve Schroeder is a network planning engineer 3 for GTE. He fills the position that Randy Patton formerly 4 occupied.

5 Q Are they part of that Dallas team you referred 6 to?

7 A They are all located in Dallas. They are not 8 14rt of the team that works on the BCPM input development, 9 but all of these folks work closely together to make sure 10 that's what's filed in BCPM is consistent with what is 11 filed our own company-specific cost model.

12 Q Do you know how many user adjustable inputs there 13 are in the BCPM?

A I heard a number this morning. It was in the thousands. I pointed out in my opening statement it's not useful to try to count how many there are or how many you've populated for the reasons I gave.

18 Q Does a number 12 thousand or thereabouts ring a 19 bell?

20 A I'm sure the record will show that.

21 Q How many of the uner adjustable inputs did you or 22 the people in Dallas adjust for Florida?

A I've answered that in my opening statement. It's not a useful question to ask. I haven't tried to count them. Part of the problem of trying to count them is how

far down in the process do you go. We filed all our inputs 1 on a combined material and labor basis. We've done that 2 for two reasons: To make it easy to talk about them, is the з cost of a pole, what is the installed cost of a pole. We 4 did it for another reason, that reason being is that we use 5 our vendor prices which is competitively sensitive 6 in1 rmation from material. We also use our vendor or our 7 contractor prices for the labor placement. If I give those 8 to you in piece parts for the -- in my public record 9 testimony, I would have violated that confidentiality that 10 requires, so we combine those together. I can't remember 11 your question. I'm sorry, I got off track. Could you 12 repeat it? I'll finish it in my answer. 13

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14 Q I was trying to obtain a number, an approximate 15 number of the number of user adjustable inputs that you 16 changed.

I recall now. And I was trying to explain why 17 A it's difficult to count them because we file on a combined 18 basis, so if you count the numbers that just appear in 19 Exhibit DGT-1R, you are going to get one number; but behind 20 that is the base price for the material, the freight, the 21 sales tax, provisioning, my material expense, the 22 engineering labor and placement labor. You know, so is 23 that one input or eight? So it's just difficult to count. 24 Q I'm trying to get a relative idea compared to the 25

2263 12 thousand user adjustable inputs what an apples to apples 1 comparison would be. Do you have any rough idea? 2 I have not counted them. As I stated earlier, 3 A we've updated the most important ones. 4 Would you have any idea on what percentage, 5 0 whether it was 5%, 10%? 6 I would have to count them to get an idea of the 7 A percentage. I haven't counted them. 8 And you wouldn't have any rough idea of the 9 0 estimated number? 10 That's what I just said. A 11 Okay. Would you agree or disagree that a cost 0 12 model should produce a forward-looking cost of an efficient 13 provider in the market? 14 I would agree that's one of the standards. I 15 A think it's important that it also produce the 16 forward-looking cost of the incumbent carrier out of whose 17 network the supported services are going to be provided. 18 In coming up with your input values, can you 0 19 explain what you did to make the values reflect the use of 20 the most current technology? 21 A Yes, I can. If we have open wire, for example, 22 in our network, that is certainly not in the modeled 23 network. If we outmoded technology in our network, like 24 load coils or Tis, that is not in our modeled network. It 25

1 turns out in Florida we don't have any analog switches, but 2 had we had analog or electromechanical switches, they would 3 not be in our network. We only use forward-looking 4 switches in our inputs, so that's what we have done with 5 respect to the technology.

Q And what have you done to conclude that the
 7 proposed inputs are the cost of an efficient provider?

Well, I've thought about it from the other side, 8 A from the position that someone might take that GTE is not 9 efficient, and the implications of that are that we have 10 been misregulated for a long time by this Commission, and I 11 certainly wouldn't accept that, but the 'Commission can 12 decide on that as they want. Or, the point I've thought 13 about it, in terms of the way we are regulated currently, 14 we are under price-cap regulation, and that gives us every 15 incentive to deploy capital and labor in an efficient 16 manner. Those are scarce resources. If we thought there 17 was a better way to operate our network, we would do so, 18 because it would be money in our pocket. 19

Q Is this thought process you just described all you did, or have you done any specific study or analysis to cetermine that the values you are suggesting here are indeed representative of an efficient provider?

A Well, the input values are market-driven values.
They are not -- I'm talking about the input values for the

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1 cost of material and placement labor. They are not the
2 result of a group opinion of what might be a pole cost.
3 They are not the result of a survey. They are market-based
4 transactions. My training is in economics. I think you
5 can learn more from what people actually pay for a pole as
6 to what someone thinks that they might pay for a pole.

Q Mr. Tucek, my question really was, have you done
any kind of a specific study or analysis to determine that
your values are representative of an efficient provider?

10 A Very succinctly, what I have done is I've 11 considered the framework that were --

12 Q Excuse me, could you give me a yes or no, and 13 then please explain?

A Yes, I have. And what I have done is considered the framework under which we're regulated and realize that the incentive is there for GTE to be efficient. I answered your second question which went directly to the prices and told you that I considered that those are market-based results, and so I consider that to be indicative of what an efficient provider would do.

Q Has this analysis that you're talking about, has that been reduced to writing?

A No, that was a mental analysis.

23

24 Q And that would be the only analysis that you have 25 undertaken in this respect?

It was all that was required. 1 A I'd like to refer you to Page 7 of your testimony 2 0 and a discussion about structure sharing at that -- near 3 the bottom of the page. You indicate that the sharing 4 inputs of a hundred percent for buried placement and 97.18% 5 for conduit and manholes. Do those numbers mean that GTE 6 bears one hundred percent of the cost for the buried and 7 97.18% of the conduit and manholes? 8 That is the effect of those numbers in the model, 9 A 10 yes. In your opinion, is this the most efficient way 11 Q to place aerial and buried structure conduit? 12 The input values we've used are based on what our 13 A actual experience has been. Those are the level of sharing 14 that when it occurred was available to us; so, yes, it is 15 efficient. 16 That's based on your historical experience, but 17 0 my question is, is that the most efficient way to do it on 18 a going-forward basis? 19 On a going-forward basis, I don't think that 20 A there will be enough opportunities to share that is going 21 to change these numbers for the network as a whole, so it 22 would be the most efficient, or these inputs are the 23 most -- are representative of the most efficient levels. 24 Well, if a new entrant came into the market and 25 0 (850)697-8314 C & N REPORTERS TALLAHASSEE, FLORIDA

started to build its own network, would you say that it would be an efficient thing to do for that new entrant to seek out opportunities to share the cost of burying cable?

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It may be efficient for them to seek it out. I'm A 4 not sure that they would find the opportunities. With 5 respect to buried cable in particular, we certainly are not 6 going to dig up the plant that is in the ground today in 7 order to repury it. For the opportunity to exist for the 8 new entrant, there has to be someone there willing and able 9 at that point in time and at that particular location who 10 wants to bury the plant. 11

Q Does GTE have a group of people somewhere that
 seeks out these opportunities?

A We have a work group in Florida who are charged with administering the joint-use contracts and that over -joint use would be like joint use for poles, and they are also involved in actually managing the construction --

18 Q How about --

19 A -- construction projects in GTE.

20 Q Excuse me, I'm sorry.

21 A Yes.

25

Q How about with respect to the buried placement or buried cable and conduit, do you have a group that seeks out opportunities to share the cost of that?

A I spoke to -- and I can't remember his name, I

apologize -- I spoke to the individual who heads up the group that I referred to, and he indicated to me that they had tried in the past to share buried plant and could not coordinate the process with other utilities to make it a useful or widespread phenomenon. And whether there is a group that goes door to door to every utility and says, do you want to share this pole, that I do not know.

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8 Q Okay. And would you know if there is a
9 particular process, procedures in place that are followed
10 whenever you undertake construction of buried cable or
11 conduit?

12 A No, I do not know.

13 Q Now you said that this was based on your past 14 experience. What kind of adjustment to this did you make, 15 this one hundred percent to 97.18%? What adjustment to 16 that did you make to make it forward-looking?

17 A No adjustment was needed to make it 18 forward-looking. As I've tried to explain, we don't see 19 that there are going to be significant opportunities to 20 share buried plant or conduit systems that would move these 21 numbers significantly. These are the best numbers that we 22 can have input into this model.

Q At the top of Page 9 of your testimony, there is a discussion about pole spacing, and I believe you say there that you, GTE, for purposes of the model, space poles

at an interval of 175 feet; is that correct? 1 That's what the testimony says, yes. 2 A Q And am I also correct in understanding that 3 that's consistent with GTE's actual engineering practices? 4 Yes, that is correct. 5 A And is this pole spacing of 175 feet, isn't it 6 true lat GTE uses that same spacing in all censity zones 7 from the highest to lowest density zone? 8 In the model, that is correct. That input is 9 A there. I'd like to point out that I ran the model adopting 10 the Hatfield assumptions for spacing poles and anchors and 11 guy wires. And we are talking about a tempest in a tea 12 pot. It changed the monthly cost per line by three cents. 13 It went up. 14 Isn't it true that Bell and Sprint vary the 0 15 length of their -- the distance between poles in the lower 16 density areas? 17 I'll accept that, that that's what they did in 18 A the model. 19 Can you explain why it's GTE's actual practice to 0 20 not lengthen the distance between the poles in the lower 21 density areas? 22 A I didn't say that was GTE's practice. I said the 23 175 feet was consistent with our practice. Pole spacing, 24 although I have not read the practice in a while, has 25 C & N REPORTERS TALLAHASSEE, FLORIDA (850) 697-8314

1	guidelines; but when you get to a particular job, the
2	engineer has to look at the situation that presents him at
3	that point in time. Every pole in GTE's system is not 175
4	feet apart. For modeling purposes, we put in an average
5	value of 175 feet. We felt that was appropriate and
6	consistent with what we actually do in our network, an
7	average value. As I indicated I anticipated this line
8	of cross I took your numbers, put them in the BCPM
9	model, and it doesn't make a difference in the results that
10	come out, not a material difference, three cents. That was
11	the spacing for poles, anchors and guy wires.
12	Q For purposes of the drop wires What is a
13	drop wire?
14	A A drop wire is the part of the network that
15	connects the NID, the network interface device, to the rest
16	of the distribution plant, generally a pedestal. So it's
17	the line that is either buried or aerial from your home to
18	the telephone plant.
19	Q And would it be true that GTE models all drops as
20	buried drops?

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A That is true in this model. Again, I anticipated that question. I ran the model with aerial drops and buried drops. I will tell you what the answer is. I ran it for the smallest standard size drops that we put in the system. It dropped the cost per line by 17 cents.

I ran it with the largest mix of aerial and buried drops.
 It dropped the cost by eight cents per line. Again, I
 think it's a tempest in a tea pot.

4 COMMISSIONER GARCIA: Run through that again. 5 What did you say you varied it by and what were the cost 6 differences?

MR. TUCEK: I ran two sensitivity analyses. I 7 took the largest size drops that we use -- I believe that 8 is five-pair for buried, six-pair for aerial -- and it 9 dropped it by eight cents per line. I took the smallest 10 size drops that we use, aerial and buried drops, it dropped 11 it by 17 cents per line. If you are trying to decide on 12 inputs for model choices, these are not changes that are 13 material in that decision. It's not, in the words of 14 Mr. Wells, and I hope I'm not putting words in his mouth, 15 it's not the exorbitant cost of placing a five-pair drop. 16 BY MR. COKER (Continuing): 17

18 Q Are you by this testimony modifying your input 19 values?

20 A No, I'm not.

21 Q Why not?

25

A Decause I think the numbers that we've filed are the best estimate of the forward-looking cost of providing basic local service out of GTE's network in Florida.

Q Are all your drops buried drops in your service

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2272 area? 1 2 A No, they are not. Then isn't your calculation in error? 3 0 A Not in a material sense. 4 It's in error, but just not in a material sense; 5 0 is that what your testimony is? 6 Well, for me to categorize something as an error, 7 A it has to be significant or material; so given that 8 9 definition, there is no error. We've talked about the drops and -- I've lost 10 0 track of what the other one was. 11 Spacing poles, anchors and guys. A 12 Q Spacing, thank you. Those are two of the 13 inputs. Are there any others that have small errors in 14 them that you don't consider to be material? 15 For there to be others, there would have to be 16 A some, and I have not testified that there are any. 17 Q Excuse me. I'm sorry, I couldn't hear you. 18 I said for there to be others, there would have 19 A to be some, and I have not testified that there are any. 20 Now there were errors in our initial filing. We filed a 21 DGT-1R through DGT-3R to reflect those, but those inputs 22 are the correct inputs for GTE. 23 O My question was, I was asking you to testify 24 right now if you were aware of any other areas, material or 25

1 ctherwise.

- 1	CCHEIWIBE.		
2	A I believe that an original filing for the buried		
3	drop we may have used an armored drop. Probably to be more		
4	realistic it should be an unarmored drop. An armored drop		
5	is and I'm not sure of the material. It may Kevlar or		
6	something like that, that you put on a buried drop to		
7	prevent damage from rodents.		
8	Q Have you determined what the impuct of that error		
9	was?		
10	A Well, I corrected that input, or changed that		
11	input in the numbers I gave you, so it could not be more		
12	than eight cents.		
13	Q Are there any others that you're aware of?		
14	A No.		
15	Q Does GTE employ the GTD-5 switch in its network		
16	if Florida?		
17	A Yes, we do.		
18	Q Do you consider that to be forward-looking		
19	technology?		
20	A Yes, it is, and I'm happy to tell you why. When		
21	I read Ms. Petzinger's testimony, the witness that brought		
22	this up, the first thing I did was I went to Yahoo on the		
23	Internet and I searched for AGCS. I found their Website.		
24	On their Website I found a press release dated		
25	February 19th, 1997. The gist of the press release is that		

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AGCS is to provide British Columbia Tel. 12 million dollars in telecommunications upgrade, a software load upgrade for the GTD-5 EX central office switch, some other type of equipment. Well, those are not exactly switches.

There is another press release, April 28th, 5 1997. British Columbia Tel. signs a 60 million dollars, 6 with AG Communication Systems for switching and intelligent 7 stwork. There is a quote in here I'd like to read. It's 8 attributed to Jeff Segal, vice -- excuse me, it's 9 attributed to Don Evans, general manager of BC Tel. and 10 Supply. "With this agreement, we ensure our customers will 11 continue to receive the most advanced and cost effective 12 telecommunications services available." This is a 13 contract, a 60-million-dollar volume purchase agreement for 14 British Columbia Tel. to purchase GTD-5, Class 5 central 15 offices, CO, central office digital switching equipment and 16 intelligent network progress. For the purpose of the 17 record, the quote attributed to Mr. Evans stops after the 18 word "available." 19

I also have a letter written to Ms. Pam Lepic (phonetics), who is a planning manager in network planning who is responsible for working with the GTD-5 switches. It's written to her from Mr. Bill Heim (phonetics) who is vice president of commercial products support. He says a lot of good things about the GTD-5 that you might suspect.

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One of the things that I think is important, he says, and I
 will quote him, AGCS continues to place base units in
 service to complete the modernization of the network for
 GTE and our other major customers.

5 One other thing that he says is that the AGCS 6 cortinues to support our customers serving over 13 million 7 lines in -- 13 million in-service lines across more than 8 800 GTD-5 EAX, base units and two thousand GTD-5 EAX remote 9 units.

I'll conclude my answer by noting that anybody 10 can access the World Wide Web these days. It's a simple 11 matter to search out the Website. I think the only -- the 12 most recent thing other than a Commission opinion or a 13 staff opinion cited in Ms. Petzinger's testimony was dated 14 1995. All of this is 1997. These are market-based 15 transactions that show that a GTD-5 is a viable switch. 16 base units are being manufactured and sold. 17

18 Q Let's talk about GTE in Florida. Has GTE in 19 Florida purchased one of these switches in the last five 20 years?

A Probably not. I don't know if they've purchased any digital switches in the last five years other than remote switching units, which would probably include GTD-5s.

25

Q Do you know whether they purchased that kind of a

1 switch or any kind of a switch?

A No, I do not. They've been a hundred percent
digital for a long time, so any additions to the network
would more than likely be remotes off existing hosts.
Those remotes would include GTD-5s if the base unit was a
GTD-5. It would be a Nortel or a Lucent Technology switch
or the base unit was from the vendor.

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8 C Does GTE have any plans to purchase a GTD-5 in 9 the future?

10 A Probably not, and for the same reason: We are a 11 hundred percent digital in our network, so I doubt that we 12 are going to be placing any base units.

13 Q Other than what you got off the Web, are you 14 aware of any other major incumbent local exchange company 15 that has purchased the GTD-5 in the last five years?

A No, I'm not.

16

Q I'd like to ask you a couple of questions about the cost of poles. You have in your summary mentioned the comparison that Mr. Wells made was not appropriate because the price of your poles in your -- the value that you have included includes guys and anchors; is that correct?

A What I said was that Mr. Wells's comparison was inappropriate because he was comparing our response to the FCC data request with the HAI default value. It is my understanding, and I believe Mr. Wells testifies that he

agrees -- well, let me backup. It is my understanding that HAI represents that default values as the installed cost of a pole. And I know that Mr. Wells has testified that that installed cost of a pole should include anchors and guys, engineering expense, supply expense, the items I have listed in my testimony.

Q What was --

7

8

9

A I would like to finish my answer.

Q Excuse me, I'm sorry.

My testimony points out that while the HAI 10 А default value ostensibly includes all of that, our response 11 to the FCC did not, so it's an apples and oranges 12 comparison. So when we compare the HAI default and then 13 also the lower value that they use for a pole in their 14 filing in Florida, on a comparable basis a 40-foot pole, 15 with all of the costs that should be in there on an 16 installed basis, we get a much different conclusion. 17 What is the value for the material and 0 18 installation that you are proposing for a pole? 19 The comparable value on a 40-foot pole to compare Α 20 to the GTE default? 21 Well, what input value are you proposing? 22 0 A The input value, we put in a weighted average of 23 a 30- and 40-foot pole because poles that are not shared 24 don't have to be 40-foot tall. I can look that value up 25

2278 for you. 1 (WITNESS REVIEWED DOCUMENT) 2 You can find that value on Page 12 of exhibit A 3 DGT-1R. For normal and soft-rock placement installed cost 4 of the pole, excluding anchors and guys, we have a value of 5 \$786.81. 6 All right. I had down here \$801.11. Does that 7 0 number ring a bell with you? 8 I believe that's a number that Mr. Wells has 9 A developed to include anchors and guys. 10 Is that an accurate number? 0 11 I believe it is. I checked it this morning, and A 12 if my memory serves, the eight hundred and whatever you 13 said it was plus 11 cents is the number he used. 14 Now that compares with a Sprint number of 0 15 \$596.14. I'm talking about the 801. 16 A Is it comparable to the Sprint number? I don't 17 know. I don't know what Sprint put in their cost. 18 Okay. Would you accept that subject to check? 0 19 Would I accept that that's the value that Sprint A 20 filed subject to check? 21 0 Yes. 22 Yes, I would. A 23 And would you also accept subject to check, that 0 24 BellSouth's number is \$406.77? 25

A I'll accept that that is their input subject to
 2 check.

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Q Now the source of this is from Mr. Wells's rebuttal testimony, that's where 1 found these numbers. Why is GTE's number so much higher than BellSouth and Sprint's?

A As I tried to indicate in my summary, you'd have 7 to go back behind the development of the pole price, of the 8 pole price input to make that determination. I don't have 9 access to Sprint's or BellSouth's numbers other than what 10 they've filed, so I can't tell you why. Let me finish, 11 again, I just want to reemphasize, if you make comparisons 12 like this, you are assuming that like named inputs are 13 developed on the same basis, and I don't think anybody has 14 validated the assumption. 15

16 Q Didn't GTE report to the FCC a cost of materials 17 and installation for a pole of \$440?

I'll accept that that's the number we filed 18 A subject to check. I don't want to have to go to Wells's 19 testimony to read it. But the more important point is, is 20 that number is not the number we would use as an input to 21 BCPM or any cost model because it's not the installed cost 22 of a pole. The FCC asked what does a pole cost, we gave 23 them the material price. I don't know that we even put in 24 freight and sales tax. I'd have to go back and check. I 25

know we didn't put in supply expense, the cost a pole yard, 1 for example, holding inventory. We did put in engineering 2 labor, as I indicated when I corrected my rebuttal 3 testimony. 4 Okay. Just so that I'm clear, is the 440 only 5 0 the material price? 6 No, the 440, I think, is labor plus material, but 7 A it's not all the costs that are in the installed cost of a 8 pole. 9 And your input price you told me was \$786? 10 0 That's true. A 11 You reported to the FCC material and labor of 0 12 440, but you've included approximately another \$346 for 13 BCPM for purposes in this proceeding? 14 There are two reasons for that: One is that there 15 A were costs not reported to the FCC in the cost of a pole 16 that should be. The other reason is the material price has 17 changed, I don't know how much, but I know that today we 18 are using --19 What are the other -- I'm sorry. 20 0 Today we are using prices that are current as of 21 A year end 1997. As best we can tell, that was no more 22 recent than year end 1995 that was provided to the FCC. 23 What additional cost did you include for your 24 0 BCPM input that you didn't include in your report to the 25 TALLAHASSEE, FLORIDA (850) 697-8314 C & N REPORTERS

2281 FCC? 1 Well, that's listed in my rebuttal testimony. 2 А (WITNESS REVIEWED DOCUMENTS) 3 Well, we have included -- in our BCPM input are A 4 the inventory costs and minor material loadings. 5 What was the second thing? 0 6 Minor material loadings. 7 A And that would have -- those two additional costs 8 would have the impact of increasing it from 440 to 786? 9 Plus the change in the base price that I'm unable 10 A to give you. 11 Mr. Tucek, would it be fair to say that in 12 0 general that GTE is recommending GTE's costs for input 13 values regardless of whether they are the most efficient 14 cost, the most cost effective cost? 15 No, it wouldn't be fair to say that. I think 16 A I've testified that these are the costs of an efficient 17 carrier for GTE's serving territory. 18 Well, if there were other more cost efficiencies 19 0 to be gained, if poles, for example, could be purchased and 20 installed at a lower price or cost than \$786, would you 21 recommend that the lower price be used as an input or would 22 you recommend GTE's cost? 23 It's a mighty big if, but given that A 24 hypothetical, obviously we would. 25

Would what? 1 0 If we could buy poles at the lower price, then 2 А that would be our input, but we are unable to buy and 3 4 install a pole at prices --But if -- Excuse me, go ahead. 5 0 -- at prices other than what we've filed in the б А 7 testimony. If BellSouth came into GTE's territory and 8 decided to install poles and they could do it cheaper, 9 should they use the cheaper price -- or would you recommend 10 that this Commission use the cheaper price as an input or 11 GTE's? 12 I would answer that they should use the lower 13 A price, but I would caution you to not infer that I said 14 they should use the price that they've filed. I don't know 15 what BellSouth has included in the input number that you 16 have given me. On an installed basis, it may well be. If 17 they added up all their costs, it may be higher; it may be 18 19 lower. The other important point to remember is that 20 when you're trying to sort through the input prices is you 21 have to, as Ms. Caldwell said, look at the whole, the whole 22 picture not say pixel by pixel. And one way to do that is 23

to look at the monthly cost per line. I know ours is in the neighborhood of 31, 32, \$33. I believe BellSouth and 25

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Sprint's are the same. They are very comparable numbers. 1 It tells me that on an aggregate basis the input prices are 2 probably comparable. 3 MR. COKER: I have no further questions. 4 CHAIRMAN JOHNSON: Mr. Melson. 5 MR. MELSON: Just a couple. 6 CROSS EXAMINATION 7 BY MR MELSON: 8 I'm Rick Melson representing MCI. If I've 9 0 understood your testimony, it's that you should be careful 10 about comparing input values because what's given one name 11 in one model and a similar name in another model might not 12 represent the same input, is that -- did I hear that 13 correctly? 14 It may be presented as the same input, but the 15 A values may not have been developed in the same manner. 16 Let me ask, if you are looking solely at a single 17 0 model, and let's take BCPM, if you're looking at the same 18 input item, is it fair to compare the input from one 19 incumbent LEC to the input from another incumbent LEC? 20 No, the fact that you're looking at the same 21 A model, and again I'm talking about the material placement, 22 cost of material for network components has nothing to do 23 with whether you just compare them without examining 24 whether the inputs were developed in the same consistent 25

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1 manner.

Q Let me ask this: Is the total cost and -- Let's take poles, for example. The total cost is going to be the sum of a material cost and a placement cost, is that correct, to get to a total installed cost?

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A There is engineering labor. There's supply exp nse, provisioning expense, freight, sales tax. There are minor material cost, and then there is the installment cost. Also the installment costs vary by condition, we have been talking about normal and soft rock conditions. Our contractors charge us an additional amount when they have to cut through solid rock.

Q At the end of the day when you sum up all of the inputs that relate to poles, don't you get a total installed cost for a pole?

I do. I don't know if the other carriers have 16 A left costs on the table or if they have included them 17 someplace else so that when you look at that single input 18 for a pole. You say, my goodness, there is variance here. 19 There is a difference. Well, it may not be because they 20 are better able to get pole at better prices than another 21 carrier. It may be that they are reporting it differently, 22 and the costs that we have included and identified with 23 installed cost of a pole are accounted for somewhere else 24 in their model. 25

Q Let me ask this: Doesn't the BCPM model expect that each input as a specific definition and that a company using the model would craft its input to match what the model expects?

A I don't think the model expects anything.
Q So if GTE for total installed cost of a pole
includes some items that another company does not include
in calculating the total installed cost of the pole, isn't
somebody using the model incorrectly?

No, the purpose of the model is to come up with 10 A the cost of providing basic local service on a 11 forward-looking basis. If I include costs in the cost of a 12 pole and put that in the model but I do not include them 13 elsewhere, I've done it correctly. If someone would leave 14 some of those costs out of the cost of a pole but include 15 them elsewhere, they have done it correctly. They've 16 accounted for all of the costs. 17

I also want to point out that the costs I'm talking about are not costs that are pulled up out of the air. We do pay freight. We do pay sales tax. We do incur provisioning expense. When we place a pole, we book these costs to the capital account, to the balance sheet, just as we do the material cost of the pole; so I feel we've done it correctly or more correctly.

25

0

And your number may or may not be comparable to

the number that another ILEC puts into the same input slot 1 in the same model, yes or no? 2 Those are the only two options, yes. They may or 3 A may not be comparable. 4 Q Okay. You were also asked -- you indicated in 5 response to a question about pole spacing and another 6 question about buried drop versus aerial drop, that you 7 re-ran the model basically on a sensitivity basis to see 8 what result a particular change in assumptions would 9 produce; is that correct? 10 Yes, I did. A 11 Okay. I believe on the pole spacing you said it 0 12

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made an immaterial cost difference of three cents; is that right? A That's correct. The cost went up by three cents.

15 A That's correct. The cost went up by three cents. 16 Q And on the buried drop versus aerial drop, I 17 believe in one of your two scenarios the cost went up by 17 18 cents; was that correct?

A No, they were both -- I want to make sure I've got my signs right here. They did not go up. They went down by 17 cents. That was for the smallest size aerial and buried drops, and they went up by eight cents -- excuse me, they went down by eight cents with the largest sized aerial and buried drops. So they both went down in both cases.

Okay. Now the numbers that you are giving 0 1 us -- and I believe you characterized both of those as 2 immaterial as well. 3 A For purposes of the decision that we are trying 4 to make, which is to select a model and a set of inputs. 5 And any of these numbers is expressed on a cost 6 0 per line per month basis; is that correct? 7 A All of those numbers that I cited were on a cost 8 per line, per month. 9 Okay. So 17 cents per line, per month is going 10 0 to be \$2 a year, \$2 per line per year? 11 Since I see you use a calculator, I'll accept A 12 that subject to check. 13 And GTE has got what, about 2.3 million lines in 0 14 the model? 15 A Yes. 16 So that is roughly 4.6, 4.7 million dollars a 17 0 year that that 17 cents translates into? 18 I'll accept that subject to check. A 19 MR. MELSON: That's all I've got. Thank you. 20 CHAIRMAN JOHNSON: Staff. 21 MS. McKINNEY: June McKinney on behalf of staff. 22 Madam Chair, staff would ask that the deposition transcript 23 identified as DGT-4 of David Tucek be marked for 24 identification please. 25

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CHAIRMAN JOHNSON: It will be marked as Exhibit 1 2 79. MS. McKINNEY: Thank you. 3 CROSS EXAMINATION 4 5 BY MS. McKINNEY: Q Mr. Tucek, do you have a copy of GTE's response 6 to staff's third set of interrogatories? 7 A I'll see. 8 Take your time. 9 0 MS. McKINNEY: Commissioners, for the record that 10 is Exhibit Number 35, Page 42 and 43. 11 BY MS. McKINNEY (Continuing): 12 And, Mr. Tucek, we are specifically looking at 0 13 Question Number 73 and the response to that question. 14 (WITNESS REVIEWED DOCUMENTS) 15 Is this the interrogatory that says that for 16 A purpose of the following request --17 Yes, Mr. Tucek. 0 18 -- refer to my direct at Page 9, lines 20 to 24? A 19 Correct. 0 20 21 А Okay. If you could please take a minute to look over 22 0 that. I'm going to ask you several questions pertaining to 23 that information. 24 Go ahead. 25 A TALLAHASSEE, FLORIDA (850) 697-8314 C & N REPORTERS

Q Thank you. 1 I'm going to refer you to the math portion in the 2 interrogatory response for the investment adjusted by the 3 C. A. Turner Index. The building factor is 56.90% and the 4 land factor is 3.31%; is that correct? 5 That's correct. A 6 7 Q Continuing with the adjusted investment, then 8 does this mean that for every dollar spent on the digital switching approximately an additional 57 cents is spent on 9 buildings and three cents on land for a total of 60 cents? 10 That's what the model would predict. Those are 11 A not only buildings to house the switch but all the 12 buildings in the network. 13 If unadjusted investment were to be used, the 14 factors would change; is that correct? 15 That's correct. А 16 Using the unadjusted investment then, the 17 0 building factor would be calculated by dividing 18 \$206,745,924 by \$885,304,846, or subject to check 19 approximately 20%, would you agree? 20 A Yes, I would. I don't think it would be correct 21 to do that though. 22 But you would agree, sir? 23 0 I would agree that would be the result. 24 А Why don't you think that would be correct to do 25 0 TALLAHASSEE, FLORIDA (850) 697-8314

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1	80?	
2	A What we are trying to do here is to bring the	
3	building investment to a replacement cost basis, and if we	
4	had to build the network today on a go-forward basis, it	
5	would cost us more than the historical forecast cost of the	
¢	building. It would also cost us more for the land. We	
7	didn't adjust the land because there is no index we could	
8	point to to allow us to do that.	
9	Q Thank you.	
10	The land factor would be \$20,796,224 divided by	
11	\$885,304,846, or subject to check which would be	
12	approximately 2%; would you agree with that?	
13	A That's correct.	
14	Q Assuming that the 20 and 2 percentages are	
15	approximately correct, then would you agree that using	
16	unadjusted investment means that for every dollar spent on	
17	digital switching an additional 20 cents is spent on	
18	buildings and an additional two cents is spent on land for	
19	an approximate total of 22 cents?	
20	A I would agree that if you put those numbers into	
21	our model and input development process that's what the	
22	model would kick out. I wouldn't agree that if I went out	
23	and bought a digital switch today and put it in a new	
24	building that those percentages would result.	
25	Q But don't the building and land investment	
1	C & N REPORTERS TALLAHASSEE, FLORIDA (850)697-8314	

2291 dollars include non-central office buildings and land? 1 Yes, they do. A 2 Q Thank you. 3 So wouldn't that overstate the factor? 4 I don't know if it overstates the factor or not. 5 A I don't believe it overstates the result of the model. 6 We've not tried to account for other buildings other than 7 CO buildings anywhere else in the model. This is where 8 this is done. It would be possible, I am told, to look at 9 the investment only for the CO buildings and compute a 10 factor in the same manner. 11 Mr. Tucek, do you know how much that is? 12 0 No, I don't know. 13 A Isn't it correct that when either the BCPM or HAI 0 14 calculate costs they do so at a level below the wire center 15 level? 16 I believe they design a network below the wire 17 А center level, and I believe they have the ability to 18 collect costs at that level, at lower levels. 19 Isn't it also correct then that the models then 20 0 aggregate their costs for reporting purposes by averaging 21 the costs of lower cost grids or clusters with higher cost 22 grids or clusters? 23 A Could you repeat the question please? 24 Sure, Mr. Tucek. 25 0

Isn't it also then correct that the models then 1 aggregate their costs for reporting purposes by averaging 2 the costs of lower cost grids or clusters with higher cost 3 4 grids or clusters? I know they report costs at the wire center 5 A level, so unless every grid within a wire center is 6 identica , that statement is true. I know they report 7 costs by density zone, so unless, again, costs are the same 8 across density zones, and that would not be the case, that 9 statement is true, yes. 10 Thank you. 11 0 At what level should the cost results be 12 13 reported, Mr. Tucek? They should be reported at the level required to 14 A size the fund. I believe Mr. Seaman testified that GTE's 15 position is that it should be -- the fund should be sized 16 on geographic areas at less than a wire center level. 17 Mr. Tucek, when Mr. Seaman testified, he said 18 0 that it was below the wire center. He didn't specify 19 whether it was the CBG or the grid. Could you clear that 20 up for me, please? 21 Fortunately I was listening on the conference. 22 Let me augment my last answer, is that it's Mr. Seaman's 23 tasks to say what the fund size is and how it should be 24 sized, so under a hypothesis that we would use the modeled 25

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results to size the fund, that's the context and the
 assumption that I'm making, but that may or may not be
 Mr. Seaman's testimony or GTE's policy.

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I think what you were asking me is, is there a 4 break point in the cost that we could look to to try to 5 decide some definition for an area at less than the wire 6 center level that on which we might size the fund. In my 7 mind th break point is driven by loops less than or equal 8 to 12 kilofeet because that is the level that you can have 9 an all copper loop on 26-gauge cable without having to go 10 to a pair gain device or thicker gauge cable. That is the 11 answer from a cost point of view. 12

From an administrative point of view, that would 13 probably be hard to identify. I think back to my days with 14 ConTel when we were, I was managing a group that did 15 tariffs, we used to have rates that were inside the base 16 rate -- inside and outside the base rate area. When we 17 define those base rate areas, we generally tried to define 18 them with respect to the city limits, ConTel being a very 19 small rural company. After you left town, there were no 20 customers except for what you would see in a rural 21 environment. That was put forth not on the basis of any 22 study but under the belief that there was a cost 23 differential there. So administratively, you might look at 24 a base rate area concept that is defined by the city 25

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limits, town limits, and for costing purposes look at grids 1 that are, or are not served by DLCs. 2 O Mr. Tucek, does the proxy cost model report a 3 base rate area as approximately 12 thousand feet? 4 Could you repeat the question? 5 A Does it report a cost at the level of 6 0 approxi itely 12 thousand feet, the proxy cost model? 7 A I don't believe BCPM does. I'm quito sure, 8 although I can't speak for the sponsors, that they would be 9 willing to try to show you how to extract that information 10 or make that a feature of the model. 11 0 No further questions. 12 MS. McKINNEY: Thank you. 13 CHAIRMAN JOHNSON: Commissioners. 14 (NO RESPONSE) 15 CHAIRMAN JOHNSON: Redirect. 16 REDIRECT EXAMINATION 17 BY MR. MITCHELL: 18 Mr. Tucek, you were asked about this sensitivity 19 0 analysis you did of drops, do you remember that? 20 Yes. 21 A The sensitivity test you did, what was the 22 0 structure mix of that analysis; that is, the division 23 between aerial and buried drops? 24 What I had the team in Dallas do was to go 25 А TALLAHASSEE, FLORIDA C & N REPORTERS (850) 697-8314

1	through BCPM and identify by grid how many drops the model
2	produced and whether they were aerial or buried, and so I
3	used those. Those percentages to get the placement cost of
4	the aerial drop. Placement cost for aerial drops are not
5	expressed on a per foot basis. They are based on a per
6	span basis. A span being how far it takes to get from the
7	pole to the house. If you had to have a second pole, that
8	would be two spans, so I used that mix to get the per foot
9	placement cost of aerial drops.
10	Q There was also some discussion of this FCC pole
11	data, do you remember that?
12	A Yes.
13	Q And have you reviewed GTE's responses to the
14	FCC's request about pole information?
15	A Yes, I have.
16	Q Okay. And did the FCC was there an FCC
17	questionnaire, so to speak, that was sent to GTE?
18	A I believe there was.
19	Q And did that questionnaire tell GTE how to
20	interpret the question relating to cost of a pole?
21	A No, it did not.
22	Q Did the questionnaire tell GTE how to interpret
23	the question relating to the cost of installing a pole?
24	A No, it did not.
25	Q Thank you.

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1 MR. MITCHELL: That's all I have. CHAIRMAN JOHNSON: Exhibits. 2 MR. MITCHELL: GTE would offer --3 CHAIRMAN JOHNSON: 78? 4 MR. MITCHELL: Yes, Exhibit 78. 5 CHAIRMAN JOHNSON: Show it admitted. 6 MS. McKINNEY: Staff would like to move Exhibit 7 Number 79. 8 CHAIRMAN JOHNSON: Show that admitted. 9 Thank you, sir, you're excused. 10 MR. REHWINKLE: Madam Chairman, Charles Rehwinkle 11 with Sprint. We think that it probably will be necessary 12 to ask that Mr. Dickerson go next. I've spoken with the 13 parties and staff, and I believe there is no problem with 14 15 that. CHAIRMAN JOHNSON: Okay. 16 MR. REHWINKLE: That will be fine. Sprint would 17 like to call Kent Dickerson. 18 CHAIRMAN JOHNSON: Mr. Rehwinkle, where --19 COMMISSIONER CLARK: Has he already left? 20 MR. REHWINKLE: Mr. Dickerson, were you 21 previously sworn in? 22 MR. DICKERSON: No, I was not. 23 CHAIRMAN JOHNSON: Oh, he has not. 24 Whereupon, 25 TALLAHASSEE, FLORIDA (850)697-8314 C & N REPORTERS

2297 KENTON W. DICKERSON 1 was called as a witness on behalf of Sprint and, after 2 being duly sworn, testified as follows: 3 DIRECT EXAMINATION 4 BY MR. REHWINKLE: 5 Mr. Dickerson, could you please state your full 6 0 name for the record? 7 Kent W. Dickerson. 8 A Q Are you the same Kent W. Dickerson who prefiled 9 direct testimony in this matter consisting of some 19 10 11 pages? Yes. A 12 Accompanied by an Exhibit BKS-1? 0 13 Yes. 14 A That's not right, KWD-1. 0 15 You said BKS. A 16 I'm sorry, KWD. 0 17 KWD. A 18 0 One. 19 Mr. Dickerson, do you have any corrections or 20 changes to make to your prefiled direct testimony? 21 Yes. On Page 11, Line 7, strike from "Sprint," A 22 the word "Sprint" through the rest of the sentence and 23 replace that with, "BCPM default values, period." 24 And then there are two minor input issues I want 25 TALLAHASSEE, FLORIDA (850)697-8314 C & N REPORTERS

1 to explain. They result in a 10% -- or excuse me, a 10 2 cent reduction from 31.88 to 31.78. That's three tenths of 3 one percent downward impact.

The first change is approximately a 10% increase in each of the copper feeder fill factors. This increase will recognize that the model result produces an effective fill that is lower than the input that is entered into the model as a result of having to select from only certain available cable sizes, so I'm increasing those values approximately 10% for each of the density zones.

The second item is the correction of a keying error. It's in the digital loop carrier equipment cost table. The DLC size for the 673 line was entered as 128,568.72. It should have been 148,568.72. Those two minor changes, again, they had a 10-cent downward impact, three tenths of one percent.

17 Q Mr. Dickerson, with those changes if I asked you 18 the questions contained in your testimony today would your 19 answers be the same?

20 A Yes, they would.

21 MR. REHWINKLE: Madam Chairman, at this time I 22 would ask that Mr. Dickerson's prefiled direct testimony be 23 entered into the record as though read.

CHAIRMAN JOHNSON: It will be entered.

25

24

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1		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION 02299
2		DIRECT TESTIMONY OF KENT W. DICKERSON
3		ON BEHALF OF SPRINT-FLORIDA, INCORPORATED
4		DOCKET 980696-TP
5		AUGUST 3, 1998
6		
7	Q.	Please state your name, business address, employer and current position.
8		
9	А.	My name is Kent W. Dickerson. My business address is 4200 Shawnee Mission
10		Parkway, Fairway, Kansas 66205. I am presently employed as Director Cost
11		Support for Sprint Management Company. I am testifying on behalf of Sprint -
12		Florida (hereafter also referred to as "Sprint," or the "Company".)
13		
14	Q.	Please describe your educational background and business experience.
15		
16	А.	I received a Bachelor of Science degree from the University of Missouri - Kansas
17		City in 1981 with a major in Accounting. In 1984, I passed the national exam and
18		am a Certified Public Accountant in the State of Missouri.
19		
20		From 1981 to 1983, I was employed as a Corporate Income Tax Auditor II for the
21		Missouri Department of Revenue. From 1983 to 1985, I worked for Kansas Power
22		and Light (now Western Resources) in the Tax and Internal Audit areas. I joined
23		United Telephone Midwest Group in September, 1985 as a staff accountant in the
24		Carrier Access Billing area. Thereafter, I moved through a progression of positions
25		within the Toll Administration and General Accounting areas of the Finance

Department.

3	In 1987, I was promoted into the Carrier and Regulatory Services group as a
4	Separations/Settlement Administrator performing Federal and Intrastate access/toll
5	pool settlement, reporting and revenue budgeting functions. I was promoted to
6	Manager - Pricing in June, 1989 where I performed FCC regulatory reporting and
7	filing functions related to the United Telephone - Midwest Group Interstate Access
8	revenue streams.
9	
10	In 1991, I was promoted to Senior Manager - Revenue Planning for United
11	Telephone - Midwest Group. While serving in this position my responsibilities
12	consisted of numerous FCC regulatory reporting and costing functions. In 1994, I
13	accepted a position within the Intrastate Regulatory operations of Sprint/United
14	Telephone Company of Missouri where my responsibilities included regulatory
15	compliance tariff filings, and earnings analysis for the Missouri company's intrastate
16	operations.
17	
18	Since December 1994, I have set-up and managed a work group, which performs cost
19	of service studies for retail and wholesale local network services. Over the last 3
20	years I have been charged with developing and implementing cost study methods
21	related to the evolving Total Service Long Run Incremental Cost ("TSLRIC") and
22	Total Element Long Run Incremental Cost ("TELRIC") methodologies. In addition,
23	I am responsible for filing written comments, serving on industry work groups, and
24	participating in technical conferences related to TSLRIC/TELRIC costing
25	methodology and the filing of studies within the individual 19 states that comprise

1		Sprint's Local Telephone Division. I have testified in Wyoming, Kans
2		North Carolina, Texas and Florida regarding TSLRIC/TELRIC cost matters.
3		
4	Q.	What is the purpose of your testimony in this proceeding?
5		
6	Α.	The purpose of my testimony is to respond to the portion of the Commission's issues
7		list related to the determination of Florida-specific model inputs. In addition my
8		testimony supports the Benchmark Cost Proxy Model 3.1 ("BCPM 3.1 or "BCPM"),
9		(as sponsored by Dr. Brian K. Staihr and filed in this docket) outputs for Sprint's
10		Florida serving territories as calculated using inputs specific to Sprint's Florida
11		operations. I am sponsoring a summary of the results of the study along with the
12		study inputs. These are provided as part of my testimony in Exhibit KWD-1.
13		
14	Q.	The Commission's issue 4 requests information on the appropriate input values
15		to the cost proxy model used for determining the cost of basic local services.
16		What are Sprint's recommendations for the appropriate input values for its
17		universal service cost study submitted in this docket?
18		
19	А.	Sprint's cost study inputs were developed to produce an appraisal of the probable
20		future costs of providing basic local telecommunications services in the individual
21		Florida geographic areas currently served by Sprint. Since the primary purpose of
22		the cost model is to identify the cost of providing basic local service to a specific
23		geographic area, cost inputs were developed from Sprint's operational experience in
24		Florida wherever possible. When this "company specific" information was not
25		available, industry average cost information developed by the BCPM sponsors was

1		used. This industry average information, "default" inputs, was used only if gelieved
2		to be consistent with Sprint's experience in providing local telephone service in
3		Florida.
4		
5	Q.	How should inputs be developed for conducting a forward looking economic
6		cost study?
7		
8	Α.	The inputs should reflect the costs that an efficient provider of telecommunications
9		service would most likely experience in providing basic local services in Florida.
10		
11	Q.	Does Sprint recommend the use of National default inputs in the calculation of
12		the forward looking cost of Basic Local Service in Florida?
13		
14	Α.	No. Many of the factors that determine the cost of providing basic service are specific
15		to customer location or service area and the company providing the service.
16		The BCPM estimates cost in a two stage process: The model determines the cost of
17		constructing the telephone network, and then determines the cost of operating it.
18		In constructing the network, the model takes into account natural characteristics of
19		the area served such as topography, geology and geography. When the model places
20		buried telephone cable, it considers the specific soil type that is encountered. When
21		the model places aerial cable, it considers the terrain and slope of the area that is
22		covered. It takes into account the dispersion of actual customer locations and the
23		amount of land area that must be covered in order to reach all customers in the
24		market. These are all geographic factors that are obviously location-specific. In
25		addition, the BCPM can also accommodate company specific inputs which reflect

1		location-specific factors that can affect plant costs e.g. local zoning codes impacting
2		construction techniques or use of aerial plant.
3		
4	Q.	You've mentioned the cost of constructing the network. Should the inputs that
5		determine the cost of operating the network be Florida-specific as well?
6		
7	А.	In many cases, yes. Operating expense data that are directly related to plant
8		investment might certainly vary from location to location because these expenses are
9		often maintenance-related. There may be location-specific factors that affect
10		maintenance costs differently in Florida than, say, in Vermont. For example, average
11		maintenance expenses for aerial plant might be significantly greater in a hurricane-
12		prone state such as Florida, than they would be in a state not known for its tropical
13		storms such as Vermont. Regional wage differences can also create significant
14		differences in operating costs among states.
15		
16	Q.	Should the model reflect a standard set of inputs for all Florida companies using
17	×.	BCPM 3.1?
18		
19	А.	No. The primary purpose of the model is to develop deaveraged cost estimates by
20		geographic area. If a standard set of inputs were included for all companies, the
20		model's precision in developing cost by location would be diminished.
22		involt a precision in developing cost of
23	Q.	What Model input issues has the Commission identified?
	Q.	the second input to the second in the second
24	٨	In its issues list (issue 4) for this docket, the Commission identified a series of input
25	Α.	til ha laave flat (laave 1) for tille doorderf nie. Goriningsfor ferstere er of

1	values and asked for information on the appropriate values for these input items. The
2	remainder of my testimony will provide Sprint's methodology for developing its
3	input values for each of the items identified by the Commission. The issues
4	identified in the Commission's issue 4 are as follows:
5	Depreciation rates.
6	Cost of money.
7	Tax rates.
8	Supporting structures.
9	Structure sharing factors.
10	Fill factors.
11	Manholcs.
12	Fiber cable costs.
13	Copper cable costs.
14	Drops.
15	Network interface devices.
16	Outside plant mix.
17	Digital loop carrier costs.
18	Terminal costs.
19	Switching cost and associated variables.
20	Traffic data.
21	Signaling system costs.
22	Transport system costs and associated variables.
23	Expenses.
24	Other inputs.
25	

б

1	Q.	Please describe why the approach used in developing Sprint-Florida's proposed
2		cost inputs provides the best data for estimating the forward looking cost of
3		basic local service within Sprint - Florida's serving area.
4		
5	Α.	Sprint - Florida's inputs reflect the realities of providing service within Sprint -
6		Florida's operating territory for the following reasons:
7		
8		Sprint's inputs reflect the contractor prices currently in effect for 1998 for
9		constructing plant within Sprint's Florida serving area.
10		
11		Sprint's inputs reflect the actual construction techniques (plow, trench and backfill,
12		cut and restore asphalt, bore cable etc.) utilized in placing plant in Sprint - Florida's
13		serving area for the very recent period of 1997. The same terrain, local building
14		codes, and infrastructure issues (density) encountered in placing these recently
15		installed facilities in Sprint - Florida's serving area can reasonably be expected to
16		continue into the future.
17		
18		Sprint's recent experience with actual purchases and installations of telephone plant
19		equipment provides the best information for predicting the forward looking installed
20		costs within Sprint - Florida's serving area. These inputs are based on current vendor
21		prices for material and equipment purchases and current Sprint - Florida specific
22		custract and company labor costs for engineering and installation.
23		
24		Clearly the recent factual and objective data provides the best basis for predicting the
25		forward-looking cost of constructing telephone plant in the very same area from

1		which the data was drawn (i.e., Sprint - Florida's serving area).
2		
3	Q.	What depreciation rates are reflected in Sprint's study?
4		
5	Α.	Sprint's filing reflects forward looking economic depreciation lives consistent
6		with the concept of building a network composed of forward looking least cost
7		technologies. The depreciation lives for the critical network components of
8		Digital Switching, Digital Circuit Equipment and all Cable & Wire Facilities are
9		based on a study performed by Technology Futures, Inc.
10		
11	Q.	What is the cost of capital reflected in Sprint's study?
12		
13	Α.	As provided in the FCC's Order, the FCC authorized rate of return of 11.25% was
14		used in Sprint's study.
15		
16	Q.	What tax rates are reflected in Sprint's cost study filing?
17		
18	Α.	Actual tax rates for Florida were utilized as inputs including the state tax rate, ad
19		valorem tax, and Public Service Commission regulatory assessment fee.
20		
21	Q.	Which costs fall into the category of "supporting structures"?
22		
23	Α.	Sprint has interpreted the Commission's issue 4a, "supporting structures" to refer
24		to those inputs associated with the installation costs for placing conduit, the cost
25		of creating trenches for buried cable, and the installation cost for poles. These

	100	
1		costs are included in the Model's structure input tables. 02307
2		
3	Q.	How were Sprint's proposed values for these inputs developed?
4		
5	Α.	The BCPM inputs for these functions were based on the specific conditions
6		encountered in the Company's Florida service area. Costs for buried and
7		underground structures were developed based on the contractor prices currently in
8		effect for 1998 within Sprint's Florida serving area. The construction activity
9		percentages, also contained in the structure tables, were based upon an analysis of
10		the total 1997 actual contractor jobs for construction of feeder and distribution
11		routes within Sprint's Florida serving area.
12		
13		The use of current 1997 and 1998 data, barring any known reason to change, is
14		clearly the best predictor of the future construction costs in the very same
15		geographic market from which the data was gathered.
16		
17	Q.	Would you please describe the structure sharing input?
18		
19	А.	Structure sharing, which impacts the percent of costs assigned to telephone, is
20		based upon an assessment of current and projected opportunities to have other
21		entities share the cost of the support structure. For example, the percent assigned
22		to telephone is set at 30 percent for aerial feeder to reflect existing and expected
23		pole sharing and pole attachment agreements. On the other hand, the percent
24		assigned to telephone for buried and underground (conduit and manhole) feeder
25		structures is set at 95 percent for most grids to reflect the fact that sharing with

1		other entities, such as power companies and cable companies, is limited. There	
2		are work coordination, safety, and available space considerations which make	
3		significant sharing of buried and underground construction costs unlikely.	
4			
5	Q.	Could you please describe the fill factor inputs?	
6			
7	Α.	Sprint's cost study calculates cable fill factor inputs separately for feeder and	
8		distribution cables.	
9			
10		reeder routes, as the name implies, feed several distribution routes. Feeder routes	
11		normally are constructed so that capacity can be added at a relatively lower cost at	
12		some future date. Sprint calculated actual feeder fill based upon working pairs	
13		(cable pairs in service) divided by total pairs available as tracked in the Customer	
14		Loop Assignment System, Sprint's internal system for maintaining cable pair	
15		inventory. This data reflects a real world balance between inventory carrying	
16		costs (non-working cable pairs) against the cost of construction for adding	
17		additional cable pairs at a later date. These same economics are expected to	
18		continue into the future, thus these cable fill input factors were used to develop	
19		the Florida specific cost results.	
20			
21		Distribution cable contrasts with feeder cable in that it serves individual customer	
22		locations. The Company must anticipate individual customer's line demand in	
23		order to provide service when requested and to avoid costly construction to add	
24		cable pairs at a later date. The distribution cable sizing factor input of 100%	
25		works in concert with the related model input assumption of two pairs per	

1		household to achieve a reasonable overall distribution cable fill. Generally these
2		model inputs result in distribution cable fills ranging from approximately 40% to
3		50%.
4		
5	Q.	How did Sprint develor its input for manhole costs?
6		a and the lines
7	А.	The costs for manholes were based on Sprint's current vendor costs and recent actual.
8		installation costs.
9		
10	Q.	How were the model's loop cost inputs for the fiber and copper cable material
11		costs developed?
12		
13	Α.	The inputs for cable costs were developed separately for copper and fiber cable and
14		include labor and material costs. Copper cable inputs were based on Sprint's current
15		material prices and Florida specific company and contractor labor costs prices for
16		engineering and installation. Fiber cable costs were developed in the same manner.
17		
18	Q.	How were the cost inputs for the feeder/distribution cable interface devices and
19		drop cable, terminals, and network interface devices estimated?
20		
21	Å	The cost inputs for these items of outside plant are included in the Model's loop cost
22		input tables and were developed based on Sprint's actual current vendor material
23		prices and specific estimates for installation.
24		
25	Q.	Please describe the cable plant mix inputs?

1	Α.	The cable plant mix inputs are developed separately for copper feeder and
2		distribution and fiber feeder. The percentages of cable facilities placed in either
3		buried, underground or aerial locations were based on an analysis of Sprint's
4		facilities in Florida adjusted to reflect a forward-'ooking trend for greater use of
5		buried copper cable and greater use of underground fiber cable.
6		
7	Q.	How were the cost inputs associated with digital loop carrier systems
8		determined?
9		
10	А.	The costs for digital loop carrier systems (DLC) were based on Sprint's current
11		vendor costs and actual installation costs within its Florida serving area. The DLC
12		model costs reflect Sprint's use of forward looking Next Generation Digital Loop
13		Carrier Systems (NGDLCs) which can support a wide range of services from a single
14		device, as opposed to one device providing Plain Old Telephone Service (POTS), and
15		a separate device providing non-switched special services. Sprint's NGDLC model
16		configuration include costs only to support the level of basic service specified by the
17		FCC, but has the flexibility to support additional services with incremental
18		investment additions which may be required to meet individual demands for
19		advanced services. Sprint uses a low density NGDLC for subscriber applications up
20		to 240 lines, and a high-density NGDLC for applications up to 2016 lines. The
21		BCPM inputs reflect the appropriate levels of investment for the corresponding line
22		demand and resulting modeled DLC system size.
23		
24	Q.	Please identify the inputs necessary to develop central office switching
25		equipment costs?

1	Α.	The inputs included in BCPM related to the development of switching costs are
2		included in the SW (switching) State Default Inputs Table, the Signaling
3		Investments Table, the Switching-Coefficient Input Table, the Global Inputs Table,
4		and the SW Discount Factor Table, the Audited LEC Switching Model (ALSM) and
5		the Switch User Data File These tables include data specifying the calling
6		characteristics of Sprint's customers in Florida and financial information necessary
7		to determine the cost of switching equipment used in providing local telephone
8		service in Florida. The information included in these tables is used by the model to
9		determine the amount of switching investment required to provide the level of local
10		service specified by the performance parameters in the tables. The model also uses
11		the information included in these tables to determine that portion switching
12		equipment costs that are required to provide the basic local service.
13		
14	Q.	How were the forward looking Sprint Specific inputs for the SW State Default
15		Input table developed?
16		
17	А.	The company specific inputs included in the SW State Default Input Table are the
18		5ESS and DMS share inputs. The remaining inputs in the table are default values
19		that are believed to be representative of Sprint operations in Florida. Additional
20		company specific inputs contained in the Audited LEC Switching Model (ALSM)
21		and the switch user data File include the following:
22		Minimum Investment per line
23		Getting Started Investment
24		Line CCS Investment and Trunk CCS Investment
25		SS7 Investment

1		Umbilical CCS investment 02312
2		Engineered Call per line and CCS per line
3		Line/Trunk Ratio
4		Percent Fill
5		
6	Q.	How were the inputs to the Signaling Investment, Switching Coefficient, and
7		Global Input Tables developed?
8		
9	А.	The inputs for these tables are default values that are representative of Sprint's
10		operations in Florida.
11		
12	Q.	How were the inputs for the SW Discount Factor table developed?
13		
14	А.	The company specific inputs included in this table are the current discount rates
15		applicable to new switching equipment purchases for Sprint - Florida and the
16		distribution of access lines by switch equipment type.
17		
18	Q.	How were the inputs used for determining the investment in interoffice
19		transport introduced into the Model?
20		
21	А.	From input parameters included in the Transport Input Table, the Equipment Price
22		Table and the Ring Size Table, the BCPM 3.1 develops the interoffice transport
23		facilities investment necessary to provide basic local services.
24		
25	Q.	How were the inputs developed for the Transport Input Table?
		14

1	Α.	With limited exceptions the inputs for the Transport Input Table were developed
2		from data relating to Sprint's Florida operations. The inputs for the percentage of
3		fiber optic cable installed in aerial, buried and underground locations were derived
4		from data contained in the mechanized plant in place (MPIP) engineering databases,
5		adjusted to reflect a forward-looking trend of increased underground fiber plant.
6		The Miscellaneous Equipment and Power Factor was derived based on the very
7		recent 1997 ARMIS Report data.
8		
9		The air-to-route mile factor was developed by comparing air miles calculated using
10		V&H coordinates to actual route miles for a sample of routes The sample included
11		over 130 local and EAS routes in all areas of the Company's service territory. The
12		sheath sharing factor was developed from engineering databases of route-specific
13		fiber facilities.
14		
15		The EAS% factor was developed from 1997 usage data. Finally the BCPM default
16		values for Line to Trunk ratio factors were determined to be representative of Sprint -
17		Florida's forward-looking service quality standards and thus were utilized in Sprint's
18		filing.
19		
20	Q.	How were the inputs for the Equipment Price Table developed?
21		
22	Α.	The inputs for the Equipment Price Table specify equipment and installation prices
23		for circuit equipment used in providing interoffice facilities. The material prices
24		included in the table reflect vendor discounted prices, Florida sales tax, and Florida
25		specific engineering and labor costs.

1	Q.	How were the inputs for the Ring Size Table developed ? 02314
2		
3	Α.	The Ring Size Table specifies the parameters for determining the capacity of the
4		fiber optic ring facilities used to provide interoffice communications. The inputs
5		included in this table are consistent with current engineering standards employed in
6		sizing interoffice fiber optic ring facilities in Florida.
7		
8	Q.	How were operating expense estimates included in the Model?
9		
10	Α.	Operating expenses are included in the model on a per line basis for administrative
11		and retailing expenses not associated with specific network facilities. Operating
12		expenses associated with network facilities were included as a percentage of
13		investment in network facilities. Both of these estimates were derived from the
14		actual operating expenses Sprint experienced in Florida during 1997. These
15		operating expense ratios, when applied against the BCPM forward looking
16		investment levels, provide a reasonable estimate of the forward looking expenses
17		associated with basic local service.
18		
19	Q.	What other inputs not specified in the Commission's Issue 4 were included in
20		Sprint's universal service cost study?
21		
22	Α.	Other significant inputs to Sprint's universal service cost study were pole costs, pole
23		and manhole spacing and Sprint's actual wire center line counts.
24		
25	Q.	What is the basis for Sprint's pole cost inputs?

1	Α.	The input for pole material cost was calculated as the sum of the bare material cost
2		for a standard pole from Sprint's invoiced pole cost, plus material and overhead
3		loadings. Labor associated with placing the pole consists of the contract unit cost.
4		These assumptions reflect Sprint's actual experience in Florida. Again these recent
5		experiences provide the best basis for estimating the forward looking costs of poles
6		under these same market conditions.
7		
8		Costs for related anchors and guys, including material, labor and overheads, were
9		based on Sprint's actual experience in the Florida market.
10		
11	Q.	How did Sprint develop its inputs for pole and manhole spacing?
12		
13	Α.	The inputs for both pole and manhole spacing reflect Sprint's current engineering
14		design and placement practices for the different density zones. The design for
15		manhole installation reflects the use of manholes to provide fiber feeder as well as
16		copper distribution requiring access points for drop installations.
17		
18	Q.	Do Sprint's BCPM wire center line count inputs reflect the actual wire center
19		line counts for Sprint's local service operations in Florida?
20		
21	А.	Yes, actual wire center line counts for each Sprint company were included in the
22		model.
23		
24	Q.	Are the inputs used by Sprint reasonable and do they reflect "real-world"
25		telecommunications engineering?
		17

1	Α.	Yes, the inputs are reasonable and represent "real-world" telecommunications
2		engineering. Since most of the inputs are based on Sprint's current real world
3		experience in providing local service in Florida, the inputs reflect practical
4		experience, and the reality based forward-looking cost characteristics of the
5		geographic territory that must be served.
6		
7	Q.	Has Sprint conducted a cost study using BCPM 3.1 to determine the forward
8		looking economic cost of basic local service that should be supported by a
9		u. versal service funding mechanism?
10		
11	Α.	Yes. Sprint conducted a forward looking economic cost study using the BCPM
12		3.1 and the Sprint - Florida specific inputs described in my testimony.
13		
14	Q.	Does this conclude your testimony?
15		
16	Α.	Yes.

MR. REHWINKLE: And that his Exhibit KWD-1 be 1 2 identified. CHAIRMAN JOHNSON: It will be identified as 3 4 Exhibit 80. BY MR. REHWINKLE (Continuing): 5 Mr. Dickerson, did you also prefile rebuttal 6 0 testimony in this matter consisting of some 14 pages? 7 Yes, I did. A 8 And accompanied by an exhibit on rebuttal, KWD-1? 0 9 Yes. A 10 Do you have any corrections or changes to make to 0 11 your prefiled rebuttal testimony? 12 No. 13 A Q If I asked you the questions contained in your 14 prefiled rebuttal testimony today, would your answers be 15 the same? 16 A Yes. 17 MR. REHWINKLE: Madam Chairman, at this time I 18 would ask that Mr. Dickerson's prefiled rebuttal testimony 19 be entered into the record as though read. 20 CHAIRMAN JOHNSON: It will be entered. 21 22 23 24 25 TALLAHASSEE, FLORIDA (850)697-8314 C & N REPORTERS

1		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
2		REBUTTAL TESTIMONY OF
3		KENT W. DICKERSON
4		ON BEHALF OF SFRINT-FLORIDA, INCORPORATED
5		DOCKET NO. 980696-TP
6		SEPTEMBER 2, 1998
7		
8	Q.	Please state your name, business address, employer and current position.
9	Α.	My name is Kent W. Dickerson. My business address is 4220 Shawnee Mission Parkway,
10		Fairway Kansas 66205. 1 am presently employed as Director Cost Support for Sprint/United
11		Management Company. I am testifying on behalf of Sprint - Florida (hereafter collectively
12		referred to as "Sprint" or "Company").
13		
14	Q.	Are you the same Kent Dickerson who filed Direct Testimony in this proceeding on
15		August 3, 1998?
16	A.	Yes.
17		
18	Q.	What is the purpose of your Rebuttal Testimony?
19	Α.	I am responding to the Direct Testimonies of AT&T Communications and MCI witnesses
20		Don J. Wood, and MCI witness James W. Wells, Jr. with respect to the validity of the HAI
21		Model Version 5.0a ("HAI Model" or "HAI") default inputs to model forward looking costs;
22		specifically, for Sprint's serving territories in Florida.
23		

1		I am also responding to the Direct Testimony of Richard T. Guepe of AT&T
2		Communications of the Southern States, Inc and Joseph Gillan of The Florida Competitive
3		Carriers Association with respect to USF costs being equal to UNE costs.
4		
5	Q.	Are the HAI model national default inputs referenced in Mr. Wood's testimony
6		specific to Sprint's serving area within Florida or even to the state of Florida?
7	А.	No. The HAI national default inputs are the same inputs promoted by MCI and AT&T for
8		all companies across all states.
9		
10	ç	Why are Sprint's company specific inputs sponsored in your direct testimony
11		superior to the HAI national default inputs for calculating a reasonable forward
12		looking estimate of the cost of UNEs in Sprint's Florida serving area?
13	<b>A</b> .	Because Sprint's inputs are based on the most objective and verifiable data available. In
14		many cases Sprint's inputs are based on the most recent actual material and labor cost
15		information available and are specific to Sprint's Florida operation. The use of actual
16		current cost information reflects the impacts of geography and regional labor costs within
17		the specific Florida serving areas.
18		
19	Q.	Does the use of inputs based on Sprint's most recent and actual experience with the
20		construction and maintenance of UNEs within Florida, constitute a use of embedded
21		cost and thereby violate the forward looking principle of TELRIC?
22	Α.	No it does not. Economic theory does not preclude the consideration of historic costs in a
23		forward looking economic cost study. Whether or not historic or current costs are a good
24		approximation of forward looking costs is an empirical issue. To argue otherwise (i.e., to
25		exclude any consideration of current costs in a forward looking study) leads to the absurd

1		conclusion that available empirical data should not be given any weight in a forward looking
2		cost study. This would preclude not only use of existing data, but all forecasts based on
3		historic data; in essence reducing forward looking cost studies to pure guesswork.
4		The term embedded costs implies the total historic book cost of a company. In contrast to
5		this, Sprint's inputs use the most currently available information as the best predictor of
6		forward looking costs and in most cases are based on 1997 and 1998 information. As I will
7		discuss in a moment there are clear deficiencies with the HAI inputs. However, at a high
8		level the approach described by Mr. Wells in his direct testimony and Exhibit JWW3
9		indicates that some portion of the Outside Plant (OSP) Inputs were developed based on a
10		limited sample of contractor and vendor costs. Although inferior to Sprint's approach for
11		several reasons, the HAI inputs also use current vendor and contractor costs (i.e., current
12		cost data) to predict future costs. If the inputs selected are to have real world application, as
13		well as to allow an acceptable level of verification and objectivity, an approach that uses
14		current actual information is the only reasonable alternative.
15		
16	Q.	If the HAI national default inputs for OSP are based in part on some degree of
17		sampling of contractor prices, why then are they not acceptable for use in predicting
18		the forward looking costs of Sprint's Florida serving areas?
19	Α.	There are several reasons why the HAI national default inputs are not the best available
20		information for predicting the cost of constructing OSP within Florida. The most obvious
21		reason is that the inputs are the same national inputs promoted by the AT&T and MCI in
22		every state and are not specific to Florida, much less to Sprint's serving areas within the
23		state.
24		

Exhibit JWW3 of Mr. Wells direct testimony contains the limited sampling information that
is purported to support the HAI national defaults for OSP construction costs. Page 1 of
JWW3 shows 16 data points for the cost of Bury Service Wire. Page 2 of 5 indicates 6 data
points for the labor costs associated with setting poles. Page 4 of 5 indicates a range of 13
to 21 data points for trench and backfill and trench and pavement restoral construction
activities. Finally page 5 of 5 indicates a range of 8 to 15 data points for the construction
activity of plowing cable.
As these inputs are national in scale and are promoted for use in all fifty states, the limited
data points equate to range of 58% to 84% probability that a given state is not even
represented in the sample. This assumer a best case scenario that each data point is a
unique state, which may not be the case.
The range of values for the limited data points shown in exhibit JWW3 suggests a high
degree of variability in the construction costs for OSP facilities. For example, Page 5 of 5 of
JWW3 shows a range of costs for plowing cable at 24 inches in rural areas from \$.40 to
\$1.50 per foot. The range of costs for 36 inch plowing depth ranges from \$.50 to \$2.00 in
rural areas. The same construction activity shows even greater variability for suburban areas
with ranges from \$.85 to \$3.50 for 24 inch depth and from \$.90 to \$4.00 for 36 inch depth.
Clearly contractors bidding on the same job can not compete with one another with bids
ranging from \$.40 to \$1.50 per foot. Rather the range of contractor prices likely reflect real
differences in regional labor costs, terrain conditions, local government restrictions on
blocking traffic flows and quality of construction issues such as trench width, depth and fill
material.

1		This is why the best predictor of the forward looking costs within a specific geographic area
2		is the market rate for that specific geographic area. Only Sprint's inputs reflect these local
3		market conditions.
4		
5	Q.	Starting on Page 19 of his direct testimony Mr. Wells' maintains the HAI model
6		national defaults are not based on the lowest default input value. Do you agree with his
7		discussion?
8	Α.	No I do not. While it is mathematically correct that the HAI national defaults are not based
9		on the absolute lowest value, they contain a definite and unexplained bias towards the lowest
10		value in each range. For example, on page 5 of 5 of exhibit JWW3, the default value for
11		plowing cable in rural areas to a 24 inch depth, is lower than 4 of 8 of the cost estimates
12		presented with the degree of understatement as ranging from 6% to 188%. The same input
13		for a 36 inch depth is lower than 12 of 15 of the cost estimates with the degree of
14		understatement ranging from 12.5% to 250%. The actual cost of plowing cable in Sprint's
15		Florida serving area in 1997 was \$1.90, which is 138% greater than the HAiational default
16		value. This example illustrates the unsubstantiated downward bias contained in the HAI
17		national default inputs. Clearly in this example, Sprint's verifiable and actual cost of
18		plowing cable within Florida is the best available information for predicting forward looking
19		costs.
20		
21	Q.	The HAI Inputs Portfolio contained in Exhibit DJW-3 of Mr. Wood's direct testimony
22		describes numerous alleged "forward looking adjustments" to the 1996 ARMIS
23		expense data. Do these HAI national default adjustments and assumptions result in
24		reasonable estimates for forward looking e penses?

1	Α.	No they do not. Many areas of the HAI national default assumptions and expense inputs
2		result in unreasonable estimates for these necessary expenses. A simple comparison of the
3		HAI 5.0a results to Sprint's 1997 actual expenses demonstrates the grossly understated
4		nature of the cost estimates resulting from HAI 5.0a model and national default inputs.
5		
6		Before describing several of the more serious areas of grossly understated expenses, I first
7		want to clarify that Sprint is not advocating that embedded book costs of operating expense
8		levels are automatically appropriate forward looking cost estimates. In fact Sprint's forward
9		looking cost estimates contain very material reductions to actual booked cost. Rather, as I
10		will now illustrate, the actual costs serve as useful, factual and objective information in order
11		to test the reasonableness of the results sponsored by Mr. Wood.
12		Exhibit KWD-1 demonstrates the unreasonably low levels of investments and expenses
13		resulting from HAI 5.0a and national default inputs. For example:
14		1. HAI 5.0a estimates general support expenses approximately 58% less than actual for
15		Sprint. This understatement is tied to an erroneous assumption which attributes
16		approximately 60% and 54% (HAI filed one cost study for Sprint-United and one for Sprint-
17		Central), of Motor Vehicles, Garage Work Equipment and Other Work Equipment to
18		corporate overheads. HAI then excludes this portion of those assets. Motor Vehicles,
19		Garage Work Equipment and Other Work Equipment is almost entirely utilized for the
20		construction and maintenance of outside plant facilities. The HAI model national default
21		assumption is unrealistic and dramatically understates the cost of these necessary assets
22		
23		2. HAI 5.0a estimates Plant Non-Specific expenses approximately 54% less than actual
24		for combined United and Central companies. Again this reduction is based on an
25		erroneous national default assumption that treats all companies in all states with the same

1		broad brush of alleged inefficiencies. This arbitrary and excessive reduction is not
2		supported by any data specific to Florida or to Sprint.
3		
4		3. HAI 5.0a estimates digital switch maintenance expenses approximately 70% less than
5		actual for combined United and Central companies. The justification for this excessive
6		reduction comes from a 1993 New England Telephone incremental cost study. The AT&T
7		and MCI witnesses provide no support for the association of the outdated cost study to a
8		company the size of Sprint serving predominately rural territories in Florida.
9		
10		4. HAI 5.0a estimates customer and corporate operations expenses approximately 80% less
11		than actual for combined United and Central companies.
12		
13		Clearly the magnitude of expense reductions for alleged forward looking assumptions within
14		the HAI 5.0a model and national default inputs are unreasonable and must be rejected.
15		
16	Q.	The HAI Inputs Portfolio contained in Exhibit DJW-3 of Mr. Wood's direct testimony
17		describes the national default assumptions for the level of structure sharing with other
18		companies. Do these HAI national default assumptions reflect a reasonable estimate
19		of the forward looking level of cost sharing within Sprint's Florida serving area?
20	Α.	No. The HAI national default inputs dramatically overstate Sprint's cost sharing
21		opportunities associated with poles and trenching costs for buried cable and conduit. For
22		example, an analysis of Sprint's pole sharing arrangements within Florida indicates 31% of
23		the cost of poles is borne by Sprint. Based on this reality Sprint assumed a pole sharing
24		factor of 30% in the study filed in this docket. This contrasts with the HAI national default

1		assumption of 25%. This equates to 17% understatement of the cost of poles within the
2		HAI study.
3		
4	÷.	Even more dramatic is the level of understatement associated with trenching buried cable
5		and conduit. The HAI inputs generally assume nway 67% of the costs for trenching
6		buried cable and conduit. Sprint's actual experience indicates a much different reality,
7		where the real world issues of work coordination with other companies, safety concerns with
8		power cables and available space considerations make significant sharing of buried and
9		underground construction costs unlikely. Sprint's witness, Mr. Laemmli, discusses the real
10		world issues constraining structure sharing opportunities at length in his rebuttal testimony.
11		
12	Q.	Are the HAI national default cable sizing factors supported by Mr. Wood's and Mr.
13		Wells' reflective of a functioning real world telecommunications network?
14		
15	Α.	No. The HAI national default inputs fail to recognize that fill factors within actual working
16		networks are reflective of some cables that are completely full and other new cables that are
17		only partially full. At any given point in time, the un-utilized cable pairs provide the
18		inventory necessary to meet customer demand for new services within three working days
19		and to resolve 95% of trouble reports within twenty-four hours. This service standard within
20		Florida is likely continue into the future, thereby requiring maintenance of the necessary
21		cable pair inventory which enables Sprint to meet these service standards for both retail and
22		wholesale customers.
23		
24		The concept of a firm requiring inventory in order to run its business is not unique to
25		telecommunications nor is it a principle that can be ignored. Further any suggestion that it is

1		improper to include this cost in the ultimate price to current customers is totally contrary to
2		common business practices. The local hardware store must maintain inventory to satisfy
3		customer demand for products. A hardware store which is consistently out of nails will soon
4		drive its customers to shop elsewhere. The carry cost of an inventory of nails is most
5		certainly reflected in the current cost of nails to current customers. The practice of charging
6		current customers for the cost of inventory is an everyday occurrence across nearly all
7		business segments including telecommunications. This basic business reality is ignored in
8		the unrealistically high levels of distribution and feeder cable fill factors sponsored by Mr.
9		Wood's testimony. For this reason, the unrealistically low HAI default cable fill inputs must
10		be rejected in favor of the real world inputs sponsored in my direct testimony.
11		
12	Q.	In his testimony, Mr. Wells uses the ILEC pole cost data gathered from the FCC to
13		justify the proposed HAI default pole cost inputs. Do you agree?
14	Α.	No. The values for Sprint, as reported to the FCC, did not reflect all of the costs related to
15		the cost of pole materials and installation. For instance, the FCC reported material cost of
16		\$170 was a bare material cost and did not include related material overheads for items such
17		as shipping, taxes, and warehousing. The USF filed input of \$255 does include those
18		material overheads. Additionally, the FCC installation cost of \$100 as reported was simply
19		incorrect, since it was estimated instead of based on actual experience in placing poles in
20		Sprint's territory in Florida. The correct USF filed installation cost of \$294.00 was based on
21		an analysis of Sprint's recent experience placing a total of 526 poles in the state of Florida.
22		
23	Q.	The HAI Inputs Portfolio contained in Exhibit DJW-3 of Mr. Wood's direct testimony
24		describes the national default assumptions for Placement Fractions for boils

		0
1		Distribution and Feeder Cable. Do these HAI national default assumptions reflect a
2		reasonable estimate of Placement Fractions within Sprint's Florida serving area?
3	Α.	No. The HAI Input Portfolio is trying to fit a National square pug into a Florida specific
4		round hole. Sprint places buried or underground cable in approximately 88% of its
5		distribution cable, 97% of its feeder copper cable and 98% of its fiber feeder because it is
6		inexpensive to dig trenches and less expensive than aerial to maintain.
7		
8		The surface structure of the Florida service territory consists of 76% of fine sand and 10% of
9		stady loam. These terrain types allow for relatively inexpensive placement of buried cable.
10		The HAI maintenance factors show that the cost of maintaining aerial cable is 68% greater
11		(13.7% aerial vs.8.2% buried) for the Central Telephone territory and 46% greater (6.3%
12		aerial vs. 4.3% buried) for the United Telephone territory than buried cable. The same cost
13		savings can be seen with the use of underground plant. The cost of maintaining aerial cable
14		is 244% greater (13.7% aerial vs.4.0% underground) than underground for Central
15		Telephone and 291% greater (6.3% acrial vs. 1.6% underground) for United Telephone.
16		
17		Greater aerial cable maintenance costs are attributable to the severe thunderstorms and
18		hurricanes that plague the area. For example, in 1985 Tallahassee was hit by hurricane
19		Kate causing power to be out for an extended period due to the power services reliance on
20		aerial plant, whereas telephone service remained almost entirely operational due to the
21		greater percentage of buried and underground cable.
22		
23		HAI, however, has an extreme bias towards aerial cable. For example, the density zone of
24		201 - 650 (which contains the largest number of Sprint customers), the HAI input for aerial
25		distribution cable is 30% vs. Sprint's input of 12.4%. The HAI input for aerial copper feeder

1		is 40% vs. Sprint's input of 2.8%, and the HAI input for aerial fiber feeder is 30% vs. 2%
2		filed by Sprint. The HAI percent aerial plant input is subject to further overstatement due to
		the HAI model "Buried Available for Shift" input. This input claims to look at a least cost
3		
4		approach for build Buried or Aerial plant. Sprint's analysis has shown that this algorithm
5		does not switch plant from aerial to buried but only shifts from buried to aerial. Therefore
6		HAI will not model the overall least cost network in hurricane prone areas such as Florida.
7		
8		HAI also does not consider the building codes of the Florida service area. Building codes
9		commonly require below ground telephone plant when building to new areas. For example,
10		Destin and Almonte Springs have issued ordinances prohibiting the use of aerial plant. This
11		forward looking trend will further reduce the need for aerial plant in the future.
12		
13		HAI's bias towards aerial is not forward looking and is certainly not least cost. Sprint's
14		placement percentages represent a forward looking least ccst method by reducing the amount
15		aerial cable being installed in the Florida service area. As discussed in Mr. Laemmli's
16		rebuttal testimony, Sprint's BCPM plant mix inputs reflect real world engineering decisions
17		resulting in the least cost network design consistent with real world issues such as terrain,
18		density and local building codes.
19		
20		Switching Costs
21		
22	Q.	Are the HAI switch cost results reasonable?
23	Α.	No. As shown in Exhibit KWD - 1, the HAI switch investment results are only
24		approximately one half of that of the forward looking BCPM results using Sprint - Florida
25		specific inputs. It should be noted that this difference exists even though the forward looking

1		BCPM results are already 53% below Sprint's book cost for digital switching equipment.
2		The HAI results combine switches from several vendors and companies, and in effect creates
3		a cost function that is averaged nationally. Further, as the HAI national default switch cost
4		curve is based on a Northern Business Information study which focuses pricipally on the bell
5		companies and G.T.E., it is not at all reflective of switching costs for an independent
6		telephone company operation the size of Sprint's Local Telephone Division.
7		
8		In contrast to the HAI national default inputs, Sprint's data, combined with the input options
9		reflected in BCPM, reflects the actual and current contractual arrangements between Sprint
10		and the switch vendor. Effective discounts received by LECs for switching equipment vary
11		significantly depending on the switch vendor, LEC size and the dollar amount of purchasing
12		commitments. To the extent the Northern Business Information study results include switch
13		purchases by RBOCs many times larger than Sprint they can not reasonably be applied to
14		Sprint - Florida.
15		
16		The BCPM, by contrast, reflects Sprint's specific purchase arrangements. Sprint-specific
17		vendor discounts can be input, ensuring that actual LEC price levels are reflected. Sprint's
18		BCPM results provide reasonable forward looking estimates of Basic Local Service switch
19		costs which are reflective of real world contracts, transactions, traffic patterns and costs.
20		
21		Universal Service versus Unbundled Network Elements
22		
23	Q.	On Page nine of Mr. Guepe's testimony and on Page four of Mr. Gillan's
24		testimony they state that USF modeling should parallel UNE modeling. Do you agree
25		with this statement?

I	Α.	Yes, with some limited exceptions. For the most part the cost of loop, switch and transport
2		network elements that comprise basic local service are the same as when those network
3		elements are sold on an unbundled basis. Some necessary differences between USF and UNE
4		costs are:
5		1. UNE unbundled loop costs must reflect the cost of additional equipment necessary
6		to breakdown a common fiber path between the switch and the next generation
7		digital loop carrier device (NGDLC) so as to deliver single unbundled loops to a
8		new entrant competitor. This equipment is un-necessary for USF as a common path
9		can be used between the switch and NGDLC in that case.
10		2. UNE costs must reflect the removal of retail costs avoided when selling UNEs at a
11		wholesale level.
12		<ol> <li>The usage cost of switching included in USF reflects only Local and EAS calling.</li> </ol>
13		whereas UNE switch ports properly reflects the usage for all jurisdictions of calls.
14		
15	Q.	Does this conclude your testimony?
16	Α.	Yes.

MR. REHWINKLE: And this his Exhibit KWD-1 on 1 rebuttal be given an exhibit number. 2 CHAIRMAN JOHNSON: KWD-1 rebuttal will be 3 identified as 81. 4 BY MR. REHWINKLE (Continuing): 5 Mr. Dickerson, do you have a summary of your 6 0 direct and rebuttal testimony to give? 7 Yes, I do. 8 Good afternoon, commissioners, I'm Kent 9 Dickerson. I'm here representing -- I'm employed by Sprint 10 as the director of cost support. In that position, I have 11 responsibility for cost information for all of Sprint's 19 12 state local telephone divisions, including Sprint of 13 14 Florida. The purpose of my testimony that I filed in this 15 docket was to respond to the Commission's issue list as it 16 related to the determination of Florida-specific model 17 inputs. I support Sprint of Florida's BCPM results and the 18 associated Sprint of Florida specific inputs used to 19 generate those results. I'd like to highlight for you my 20 approach to numerous major BCPM inputs and how I went about 21 making those forward-looking and specific to Sprint of 22 Flor.da. 23 All the material costs, material costs for poles, 24 for cable, for switches, for digital loop carrier devices, 25 TALLAHASSEE, FLORIDA (850)697-8314 C & N REPORTERS

reflect the current as-we-speak vendor cost specific to Sprint for the purchase of those items. The labor cost associated with the installation of those equipment items are specific to Sprint of Florida in terms of its company labor and in terms of its contract labor.

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Looking to construction costs, for example, the
costs that we pay contractors to plow cable, to cut and
restore asphalt, cut and restore concrete, trench, the
prices reflected in this filing reflect the prices that are
in a contract currently being charged for work as we sit
here and speak today.

The construction activity, this is a major input 12 into the model. It predicts, if I put in a thousand feet 13 of cable, what -- will a hundred feet be plow? Will two 14 hundred feet be trench? Will three hundred feet be backhoe 15 trench, cut and restore asphalt and so on? I have 16 satisfied those inputs based on an analysis of Sprint of 17 Florida's actual percentages of those construction 18 techniques for the most recent period of 1997. 19

The plant mix, the percent aerial, underground and buried has been made specific to Sprint of Florida's serving area. In addition, we did a forward-looking analysis to ascertain whether there were any significant changes and we made some slight modifications of the current plant mix to ensure a forward-looking perspective.

Network design, you've heard a lot about the 12 1 thousand kilofoot fiber copper break point. I used a 12 2 thousand kilofoot fiber copper break point. That is, in 3 fact, what is being deployed in Sprint of Florida's network 4 as we sit here today. It's also the same network design 5 that is being deployed in all of Sprint's 19 states, and 6 it's being deployed for the reason you've heard several 7 times because it is the least cost approach to building a 8 network that will also support advanced services. 9

Cable fill factors, I'm sure that having sat 10 through some UNE dockets, you've heard a world of 11 discussion on cable fill factors. On the distribution side 12 of the network, I've reflected current realities. Again, 13 this is what's being deployed in our constituents' serving 14 territories in Florida. We are putting two pair in the 15 distribution cable, and that is the correct least-cost 16 approach because one simple reality. If you've got between 17 a 15 and 20% second line penetration in Florida, if you 18 envision here is a new housing development, how are you to 19 predict out of a hundred houses which are the 20 that are 20 going to request the second line? You can't predict them 21 is the answer to that. 22

23 So what you have is you have two alternatives, 24 you have an alternative to say, I can incur a slight 25 increase of the material cost at the point of initial

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construction. I can increase my cable size for some
 additional cable pair. This doesn't have any impact on the
 cost of creating the trench which is the largest part of
 the cost. It has some effect on splicing costs upward.

If you don't choose to make that decision at that 5 point, your alternative is to come back through residential 6 neighborhoods, through streets, through sidevalks, through 7 driveways, through yards, through landscaping and place 8 additional cable pair. I've filed analyses in other states 9 which clearly demonstrate the least-cost approach to this 10 is to put -- anticipate this and put the cable pair in at 11 the point of initial installation. 12

The structure sharing inputs that I've filed are 13 reflective of real-world opportunities for structure 14 sharing. Where significant opportunities for structure 15 sharing exist, i.e., aerial plant, I've reflected that. My 16 input reflects only 30% of the cost of aerial structure 17 being poles, being assigned to the telephone. Conversely, 18 below ground construction, the real world is there is 19 limited opportunities to share those structure costs. I 20 have used inputs that exceed what our real-world 21 opportunities are as we sit here today in Florida. 22 Conversations with our engineering and construction 23 personnel in Florida indicate minimal. I have used inputs 24 that vary from 10% to a 5% opportunity. 25

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The expense inputs, they've been -- again, they are specific to Florida. They are based on recent relationships of plant maintenance to plant investments. Those relationships then get applied in the model to forward-looking investments, and as I'll show in a minute, they result in substantial forward-looking reductions in plant maintenance costs.

There are other expense categories which are more 8 logically assigned based on a per line basis. These would 9 be items such as general overheads, customer service 10 expense. Those have been applied in the model on a per 11 line basis as opposed to a percent of investment. A 12 high-cost customer in a rural area who requires more 13 investment to serve doesn't necessarily drive any greater 14 proportion of general support, general headquarters, 15 customer support type expenses, so that relationship has 16 been reflected in my study. 17

Now I'd like to talk a little bit about what I believe to be the sharp contrast to my approach that you will see in AT&T and MCI's cost study. One, they come at the majority of their inputs with a national level approach. Yes, they claim to make some small modification for labor costs. It's completely inadequate in predicting local labor rates.

25

They assume national level construction

1 techniques, their plow, their trench, their cut and 2 restore. It's the same assumption you'll see -- I've seen 3 in Texas, Nevada, North Carolina, South Carolina, 4 Tennessee. It's the same everywhere you go.

Here is the quantum assumption that they base, 5 they share away 67% of below-ground construction cost based 6 on an assumption that we are not only trying to reconstruct 7 a telephone network but somehow simultaneously we're 8 reconstructing the entire power and cable network. Every 9 inch of every trench is assumed to be shared. In part due 10 to vendor costs, which are far lower than what I know to 11 factually be Sprint's opportunity for vendor purchases, 12 their switching costs generally are half of my 13 forward-looking switching costs which are already half of 14 my embedded book cost, so effectively their switching 15 investment is one fourth of the digital switching 16 investment that is on Sprint's books. 17

Their next-generation digital loop carrier devices, their input is approximately a third of what I know to factually be Sprint's installations, very recent installations for these forward-looking equipment devices. Looking to expenses, they have unfounded national

23 default expense reduction assumptions. They assume away 24 50% of network operations. They use a 1993 New England 25 telephone digital switching maintenance factor with no

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analysis as to why this would apply in Florida, why would
 it apply to Sprint of Florida.

They assume a national default plant mix. It predicts completely unrealistic levels of aerial plant in a hurricane prone state such as Florida. They completely ignore the realities of cable fills by failing to place enough real-world pairs in the distribution cable to achieve a least-cost approach to second-line demand.

9 Mr. Wood did not disappoint me. I expected to 10 hear that my real-world, most-recent and current and 11 market-specific data, I expected to hear that characterized 12 as embedded costs, and I believe that's what Mr. Wood 13 stated; and that's not at all the case. And in my rebuttal 14 testimony, I provided an analysis, which I'm going to show 15 you briefly which shows that clearly that's not the case.

If I could refer you to Exhibit KWD-1 in my 16 rebuttal testimony, this is real brief. Looking at the 17 total investment levels resulting from this approach and 18 comparing it to the most recent 1997 ARMIS date, the total 19 investment without attempting to index it, and generally if 20 you index cable and wire investments the factor that you 21 would apply would be two to three times what your book cost 22 is, it would increase your book cost. Without even taking 23 that into account, my investment levels are 27% below what 24 is on Sprint's books today. Dramatically in contrast to 25

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1 this, the HAI model results suggest a 52% reduction from 2 Sprint's book cost.

Looking at the associated expenses, my study reflects a 37% expense decrease, so clearly my recent fact-based approach does not duplicate my embedded costs in any fashion whatsoever. Again, in sharp contrast, the HAI model suggests a 62% reduction in our operating expenses possible to continue to serve our two million Florida customers as based against the most recent period of 1997.

I would welcome additional questions in this 10 area. It wasn't in my direct testimony, but I certainly 11 can respond to some of the assumptions that the HAI 12 components make in regard to why these expense reductions 13 would be possible. The fact of the matter is most of what 14 you've heard them say are already implemented in Sprint's 15 operation. They've already been reflected in the 1997 16 expense levels. That concludes my summary. 17

18 MR. REHWINKLE: Mr. Dickerson is available for 19 cross examination.

CROSS EXAMINATION

21 BY MR. HENRY:

20

Q Mr. Dickerson, my name is Mickey Henry. I represent MCI. I have one very small area I want to ask you about.

25 A Okay.

Q In your summary you indicated that your modeling assumption is to put two cable pair to all the households because of Sprint's experience of a 15 to 20% second line penetration rate in Florida; is that correct?

5 A Yes, I was talking in general terms. I don't 6 know the exact penetration rate for Florida, but, yes. And 7 I was specifically talking about in the distribution side 8 of the network.

9 Q Okay. So, in effect, with that assumption in the 10 model, "en the model would build a cable out to every 11 household -- or actually I think housing unit, but that's 12 not the point -- would build a two-cable pair to each 13 household, correct?

14 A That's correct.

Q Okay. So that if someone, in fact, did -- under that assumption then, the incremental cost to provide a second line to a household would be zero, correct?

18 A No, that's not correct. What is done in both of 19 these models --

20 Q Or -- Okay.

A What is done in both of these models is, you provision whatever level of cable pair you believe appropriate to each household or housing unit. You then load in the demand you deem appropriate and you develop the unit cost.

What has been reflected in my cost study, for 1 example, is a true, grounded-in-reality, forward-looking 2 assumption of two distribution pair to each household. 3 Then to the extent that there is already second-line demand 4 at a 15% penetration level that is reflected in my working 5 line count, the total of that cable plant has been spread 6 over the total of the demand, including whatever second 7 line demand is included in that working line demand to 8 develop the unit cost. So the unit cost -- in both models 9 the unit cost of the second line is the same cost as the 10 unit cost of the first line. They share in all the 11 economies of scale that exist in the network. 12 Okay. So the incremental expense though then to 13 0

13 Q Okay. So the incremental expense though then to 14 actually activate a second line would be minimal, correct?

A It would be the same expense to activate the first line. It would be whatever is necessary to establish connections at cross connects and so on as well as to enter the order data in the system.

19 Q Okay.

20

A So it's the same cost in both instances.

21 Q The investment is already there. There would be 22 no investment expense in activation of the second line?

A Well, I explained, I think, quite thoroughly for you how these models approach it; and the cost of the second line is the same as the cost of the first line. The

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1	only opportunity that I see whatsoever here and again				
2	this has been spread in the model, but even in the real				
3	world, the only opportunity you have is to the extent that				
4	your drop cable included additional cable pair as it				
5	properly would in a least-cost you know, it would be an				
6	absolute disaster to have to go out and install new drops				
7	every time you get a second-line request. So you don't go				
в	out and install a new NID. You don't go out and install a				
9	new drop, but all those have been in both models have				
10	been reflected. The total demand has been divided into				
11	those costs, so to the extent that you put a NID in there				
12	and some portion of NID serves greater than one line, that				
13	has been reflected in the unit cost calculation.				
14	Q Okay.				
15	MR. HENRY: That's all I have. Thanks.				
16	CROSS EXAMINATION				
17	BY MR. RUSCUS:				
18	Q Good afternoon, Mr. Dickerson. Stephen Ruscus				
19	representing AT&T.				
20	A The last name was Ruscus?				
21	Q Ruscus.				
22	A Thank you.				
23	Q You are advocating that this Commission adopt				
24	Florida-specific, and in particular Sprint territory				
25	Florida-specific values for Sprint's territory; isn't that				

1 correct?

A Yes, I believe that represents the most factual approach to estimating the forward-looking costs in those same serving areas.

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5 Q And isn't it true that what I've just said means 6 that there is a first concept which is you provide 7 Florida-specific values which would be those appropriate 8 for the St& e of Florida, correct? But the second part of 9 that is that within the State of Florida you're advocating 10 separate inputs for Sprint territories; is that correct?

11 A Yes, that's what I filed. I have reflected the 12 current and expected forward-looking realities in Sprint of 13 Florida's serving area.

14 Q And in your mind you contrast that with what 15 you've characterized as national default values, correct? 16 A Yes.

Q Okay. Can you tell the Commission how many values you've utilized in your run of the BCPM that are national default values?

A No, I can't, but I can provide some related information. If you would like to -- Let me refer you to my testimony. We can go through this. On Page 6 of my direct testimony, starting on Line 5, depreciation rates, those have been made specific to Sprint. Cost of money is specific to Sprint. Supporting structure, specific to

Sprint of Florida. Structure sharing factors, specific to 1 Sprint of Florida. Fill factors, fiber cable costs, copper 2 cable costs, drops, NIDs, outside plant mix, digital loop 3 carrier costs, terminal costs, switching costs, traffic 4 data, signaling costs, transport costs, expenses, all 5 specific of Sprint of Florida. I believe that the vast 6 majority of the material inputs to the BCPM have been made 7 to be specific to Sprint of Florida. 8 But you have no idea in which instances you've 9 0 u default values; is that your testimeny? 10 No, that's not my testimony. A 11 Well, that was my question. 0 12 And my answer was, no, and what I provided to you А 13 is guite a comprehensive list of all the substantial model 14 inputs that are specific to Sprint of Florida. 15 Okay. Now --16 0 We can go through the rather menial left-over 17 A model inputs which would be default, if you think that's of 18 value, but I assure you these are all the material drivers 19 of cost, and they've all been made Sprint of Florida 20 specific. 21 Q Whether or not you consider them to be Florida 22 specific, were any of them adopted from the BCPM default 23 input groups? 24 A Yes, some of them were. 25

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Q Which ones?

1

Manhole costs were default values. Certain 2 Α switching -- The switching algorithm was utilized; 3 however, the Sprint's actual and current vendor discount is 4 still utilized in that calculation. So in that fashion, 5 even that calculation is still specific to Sprint of 6 Florida. The terrain data that underlies the model is 7 spec. ic to Sprint of Florida, although I didn't have to 8 manipulate the data. It comes from U.S. geological 9 census. Again, far and away, I would state I'm confident 10 that all the material inputs are Sprint of Florida 11 specific. 12 Okay. But in answer to my question, the manholes 13 0

13 Q Okay. But in answer to my question, the mannoles 14 costs, although you view them as specific, are the default 15 values set out in the BCPM, correct?

That's correct. It's difficult -- the 16 A underground conduit system, as evidenced by all the parties 17 inputs in this docket, they last a long time; and it was 18 more difficult for me to gather recent factual information 19 in that area. I did, was able to gather that in other 20 states, and I do have that as a basis for judgment on the 21 appropriateness of the default values for BCPM. I used the 22 default values for that. 23

24 Q So you found a value that the BCPM modelers 25 thought would be applicable to California and Nevada,

Wyoming, New York, South Carolina to be applicable to
 Sprint-Florida as well; is that correct?

Well, let me explain again. I didn't have any A 3 recent real-world information, which is far and away the 4 best approach; and far and away the majority of the inputs 5 that I've filed, that's how they were developed. Again, in 6 the absence of the best data available, which I've used in 7 almost all other cases, I used the default values. Again, 8 I had as a benchmark of reasonableness, I had some recent 9 manhol installations in our Nevada serving area which I 10 could use as a basis for judgment. They were, in fact, 11 higher than the default values, so I judged the default 12 values and the use of them to be conservative. 13

Q I need to reask my question. Isn't it true that you have just now in your testimony characterized the manhole default values which the makers thought applicable on the national level as being representative of Florida -l8 of Sprint's Florida experience, yes or no?

19 A I have accepted those in absence of better 20 information.

21 Q Now isn't it true that with -- Would you agree 22 that next to the loop the switch is the biggest cost driver 23 in the BCPM?

A I would agree that next to the loop it is the biggest cost driver; however, it's 12% of the total, so

that's a pretty big step when you go from loop to switch. 1 But you're not representing that you'd be willing 2 0 to reduce your suggested universal service prices by 12%, 3 are you? I mean this is a significant cost factor, would 4 you agree? 5 A Of course. 6 7 0 Okay. I was just pointing out it's far -- the loop far 8 A and away is where the costs are in this calculation. 9 As with regard to the switching inputs which you 10 0 utilize in the BCPM, all of the switch investment 11 information for the actual cost of that equipment, save for 12 the discount value, is default value which the BCPM makers 13 found applicable nationwide; is that correct? 14 No, that's not correct. A 15 Okay. Well --16 0 Over half of the switches in this cost study are 17 A a direct result of SCIS, switching cost information, 18 BellCore. You can utilize BCPM in several different 19 fashions. It's quite flexible in the area of switching 20 costs. To the extent that you have SCIS investment 21 results, you can enter that into the model and for 22 approximately half of the wire centers in my cost study 23 that is what I have. So right off the bat, over half of 24 them are entirely specific to Sprint of Florida. 25

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Second of all, even when using the switching 1 algorithm, there are inputs which are utilized in that 2 process which are specific to Sprint of Florida, and I'll 3 run you through several of those. One I mentioned, the 4 actual vendor discount. Two being the share of 5E 5 switches, versus DMS switches. 6 Can you show me where you are in your cost study 7 0 as we go through. 8 MR. REHWINKLE: I'm not sure he was finished with 9 his answer. 10 MR. RUSCUS: Well, I'm asking him to go back to 11 the beginning of that list and help us understand where he 12 13 is. MR. REHWINKLE: Well, let's let him finish the 14 list first. I think, Madam Chairman, that would be 15 appropriate. If Mr. Dickerson was making a list, he ought 16 to be able to finish it, and then counsel can go back 17 through the list if he'd like. 18 CHAIRMAN JOHNSON: I'm going to allow the witness 19 to finish his response, and then if it needs to be 20 clarified, it can be clarified. 21 On Page 2 of the switching global inputs is where 22 A the discounts -- and these are proprietary. I don't know 23 if you've got a proprietary or nonproprietary. This is 24 where the Sprint-specific discounts are entered. On that 25 (850) 697-8314 C & N REPORTERS TALLAHASSEE, FLORIDA

same page you then utilize that same Sprint-specific 1 information to develop the switching discount adjustment 2 factor which takes into account the discount factor times 3 the percent of this equipment item that is material versus 4 labor, because the discount factor only applies to the 5 material portion. That's Sprint specific. The stand-alone 6 host and remote percentages are Sprint specific. I think 7 those would be some examples, Mr. Riskus (phonetics). 8

Ruscus.

10

9

A Ruscus, pardon me.

Q So turning to Page 1 of 51 of your inputs list, it looks like the first page of the global inputs chart, it's entitled "Manual Inputs," tell me which of the, it looks like, approximately 15 values in that chart were default inputs in which you specified?

There is no need for the bulk of these to be --16 A Most of these are default values. I think perhaps all of 17 them are. That doesn't mean, however, though, that I did 18 not review them to ascertain whether I would expect them to 19 be different had I put company specific because we did, in 20 fact. For example, the MDF protection assignment to USF, 21 that is an FCC mandate. They've already ruled on it. They 22 say it's a hundred percent assigned to port. That is not 23 an issue that should vary company to company so, therefore, 24 the input does not. 25

At the top of the page, the basic investment levels for 5E and DMS switches, those won't vary. What will vary is the company's discounts on that. So in other words, there is no need to vary that input because you have an input that is applied to it that achieves the company-specific result, so there is no need to do that.

7 Looking at excess line CCS option, it was a 8 cognizant decision. We assign excess CCS investment to the 9 "sage versus to the port. So you can view it however you 10 like. We viewed -- we've reviewed these and determined 11 whether we needed to change them or not and determined we 12 didn't.

13 Q And you would agree that the values you thought 14 you did not need to change to a Florida-specific value were 15 the national inputs captured in this chart, correct?

A Yes, which would only, you know, be related to fractional portions of the overall switching investment since we've already determined and we understand that half of the switching investment is already completely specific, and the major parts of the calculation for the remaining half are company specific by virtue of using the company-specific inputs I've just stepped you through.

Q Now let's move two pages further on to what, I believe, is called "SW State Defaults." Do you see that chart there?

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Could you tell me the page number at the bottom? 1 A It looks like 3 of 51. There are no Bates 2 0 numbers? 3 Α Yes, I am on that. 4 Reading across that page, I believe one, two, 5 0 three, four, five, six columns, how many of those columns 6 are national default values? 7 These are all national default values. A 8 Okay. 9 0 However -- well, on Page 3 of 51, these are all 10 A national defaults. 11 And you thought those were representative to 12 0 Sprint's Florida specific values, correct? 13 A Let me check something because I think that we 14 provide some additional information that replaces part of 15 16 this. (WITNESS REVIEWED DOCUMENTS) 17 A Okay. No, what I was thinking of relates to the 18 approximately half switches which we provide the 19 Sprint-specific SCIS investment. 20 Flipping to the next page which is Page 4 of 51, 21 0 with the exception of the SEES share and DMS share, how 22 many of those inputs are default inputs? 23 I believe those are all defaults. Again, these 24 A get used in the calculation which applies those additional 25 TALLAHASSEE, FLORIDA (850) 697-8314 C & N REPORTERS

1 Sprint-specific values that I spoke of.

2 Q That would be the mix of switches and the 3 discount?

A Yes.

4

5 Q So we can agree then that a substantial number of 6 the inputs used to generate Sprint's BCPM switch cost was 7 in an instance where you entered data separately are 8 national default values, correct?

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9 A No, I'm not going to agree with substantial. I 10 ould agree that what we went through, there are some use 11 of defaults. And I would emphasize, again, that I believe 12 that the material, the ones that have the biggest impact 13 are Sprint of Florida specific.

14 Q Let's talk about the discount for a moment. You 15 indicated that you believe the discount was an important 16 determinant of switch price; is that correct?

17 A Yes.

18 Q When was the contract executed from which the 19 discount was derived?

20 (WITNESS REVIEWED DOCUMENTS)

A Well, I'm not sure about your term "execute." What I was looking for was Late-filed Deposition Exhibit Number 7.

24 MR. REHWINKLE: Yeah, I'm not certain, and I 25 don't have it with me. We provided the contract in

discovery, but I don't know if we claimed -- I believe we 1 claimed the entire thing confidential, and that would 2 include the date. 3 4

MR. RUSCUS: Okay.

I can say this. It's the contract that's А 5 currently in effect. It reflects our current contract. 6 BY MR. RUSCUS (Continuing): 7

If it were the case that the contract from 0 8 And by the way, in discovery you provided a 9 which -contract stating a discount for only one of the two 10 companies you say you use; is that correct? 11

I guess my attorney could verify that. 12 A MR. REHWINKLE: I believe that's the case. 13 There was such tremendous amounts of discovery. 14 А MR. RUSCUS: For the Nortel but not the SEES, 15

16 correct?

17

MR. REHWINKLE: Yes.

18 BY MR. RUSCUS (Continuing):

So on the representation of your counsel that 19 0 that is the discovery provided, is your test -- and the 20 question was, upon what do you base your discount? Is it 21 your testimony that the discount for the Nortel switches 22 was the basis of your discount for all switches in Florida? 23 MR. REHWINKLE: I'm further informed, and I 24 believe our discovery may have reflected so, that we do not 25

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have a contract with Lucent. 1 WITNESS DICKERSON: What was that? 2 MR. REHWINKLE: That we do not have a contract з with Lucent. 4 WITNESS DICKERSON: I don't think that's correct. 5 MR. REHWINKLE: That's why attorneys should keep 6 their mouths shut. 7 WITNESS DICKERSON: I don't think that's correct. 8 MR. REHWINYLE: I'll let the witness testify. 9 If we look at Page 2 of the switching global 10 A inputs you'll see discounts specific to SE and specific to 11 DMS, and each of those are reflective -- my understanding 12 is that each of those are reflective of our contracts with 13 each of those switch vendors. 14 BY MR. RUSCUS (Continuing): 15 So when we asked you in discovery to provide the 16 0 duration of those contracts, did you identify a duration 17 for a 5E? 18 A Yes, we identified a duration of a contract for 19 Lucent Technologies in Exhibit Number 7. I'm looking at it 20 right here. 21 Okay. To the extent that the contract you 22 0 provided for Nortel on its face indicated that it would 23 have expired by the present time, do you still think that 24 the discount called out in that contract is appropriate for 25 TALLAHASSEE, FLORIDA (850) 697-8314 C & N REPORTERS

1 use in the BCPM model for a forward-looking model?

A Well, your question has no basis. I'm looking at
3 Deposition Exhibit 7, and the contract still is in effect
4 according to this response.

Actually it does have a basis. If that document 5 0 is examined, it will confirm my statement. There may have 6 been a further extension reflected in your answer, but I'm 7 talking about the document that's the executed contract by 8 the parties, use of that discount, would you consider it 9 appropriate if -- and you can take this as a 10 hypothetical -- the duration of the contract was such that 11 it had expired by this time? 12

A It may or may not be. I don't think I would know
for certain. My understanding is what I have filed
reflects a current contract that is still in effect.

16 Q But you don't know one way or the other whether 17 you would consider the discount appropriate were it the 18 case that the contract had expired?

19 A I wouldn't know for certain. I'd have to do -20 you know, I would have to understand whether there is
21 reason to believe that the contract discount would change.
22 Q Are you familiar with the Turner Plant Index?
23 A Yes.

24 Q What does the Turner Plant Index say about the 25 general trend in switch prices?

A I believe it says they've come down and, you
 know, that's why I filed the forward-looking cost study
 which reflects switching investment.

Q So if the cost --

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A Which is approximately 53% below my book cost.
My study reflects switching investment of 365 million.
7 There is 776 digital switching investment on Sprint of
8 Florida's books. That's a 53% reduction.

9 Q Let me ask you a question. Are you aware whether 10 or not the face cost, the list price of the DMS-100 switch, 11 in fact, has gone up slightly over the same period of time 12 that switch prices in the aggregate have declined?

A I don't know.

14 Q If that were true, wouldn't that suggest that the 15 discount rate upon which you believe the switch price 16 depends has been increasing such that discounts available 17 to companies are getting better?

A I didn't understand your question.

19 Q If the list price of a switch over time is 20 staying the same or increasing but the Turner Index 21 indicates that the aggregate switch prices are decreasing, 22 that decrease has to be accounted for in the discount rate 23 applied to the list price; is that correct?

A I don't know. It seems as though I'm getting into a hypothetical since I answered. I don't know that

1 it's factual that list prices are going up.

Q Okay.

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A Supposing a hypothetical, I think your math would
4 be correct.

Q Okay.

A Again, I want us to have a clear understanding
here. My study reflects our current discount price, so I
don't see how this question or hypothetical you are posing
has any applicability to my study.

10 9 Hypothetically, if you had a discount from an earlier period, for instance from a contract executed five years ago, and switch prices have declined since that time and that decline is captured in the discount, under that hypothetical, wouldn't you agree that use of a discount from that period of time might overstate switch costs?

16 A Well, I don't have any basis in the real world to 17 agree with your statement. If your -- your math is 18 correct, if all the conditions --

19 Q That's fine. The documents are in the record.
20 A If all the conditions in your hypothetical are
21 correct, I think your math is correct. Again, not to be
22 confused with whether I've used our current discount or not
23 because I have.

Q Okay. And you contradict the representation of coursel that you even have a current SEES contract?

I'm looking at our Late-filed Exhibit Number 7 A 1 response. 2 That's a yes or no question. If you could just 3 0 4 answer yes or no. Yes, because I'm looking at Deposition Exhibit 5 A Number 7 which identifies a contract term with Lucent 6 7 Technology. Okay. Now earlier you read to the Commission an 8 0 impressive, or at least a lengthy list of values which 9 weren't the inputs for which you use default values. Do 10 you remember that recitation? 11 A Yes. 12 And you indicated that all of those values were 0 13 Florida-specific, correct? 14 15 A Yes. And you did that with the intention of 0 16 distinguishing them from national values, correct? 17 I'll accept that. A 18 Okay. The depreciation rates that Sprint used in 19 0 this case, are those the same ones that it uses at a 20 corporate level in other proceedings in other states? 21 Yes. If you want to read the record back, I was 22 A very careful. What I represented was the depreciation 23 rates were specific to Sprint. I did not say Sprint of 24 Florida. 25

2357

Q Okay. So those are national rates that are
 attached to Sprint the corporation but not to any
 particular condition in Florida, correct?

A Yes, I think that you have to understand that some inputs are more specific to a specific company's market purchasing power. Some of them are specific to regional labor costs, to regional zoning issues, to terrain issues that drive construction techniques. Others are not necessarily region specific. We've used a national but Sprint-specific depreciation.

11 Q Is that also the case for cost of capital? 12 A The capital structure is specific to Sprint of 13 Florida. The overall result, the 11.25 is the same 11.25 14 I've used in other filings.

15 Q Okay.

16 A It's the 11.25 that the FCC recommended in their 17 universal service fund order.

18 Q Okay. So that's not specific to any condition in 19 Florida, but it is what you've taken from the FCC

20 recommendation?

A Well, again, the capital structure is specific to
 Sprint of Florida.

Q And manholes we've said on that list are, while they are representative of Florida, are actually default values, correct?

A That's correct.

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Q And the fiber cable costs are representative contracts that switch is obtained on a national level, correct?

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A Well, the material cost portion would be.
 Q Correct.

7 A But the material cost portion is far overshadowed 8 by the labor costs. Labor costs comprise about 60% in 9 general of installed cable costs, and that's excluding the 10 cost co create the trench or lay the conduit which would 11 drive that percentage even much higher.

12 Q Are you asking this Commission to adopt that 13 portion of your fiber input which is pertinent to the 14 material price?

Yes, I am, and I'll explain why. It's just a 15 A reality of the business world that we've got differing size 16 LECs out there, and it's a reality of the business world 17 that they -- due to their differing sizes are going to have 18 differing abilities to negotiate prices. It happens 19 everyday. All people cannot buy from wholesalers at the 20 same price. And what we are trying to do here is set up a 21 high-cost support fund to specific customers who reside in 22 Sprint of Florida's serving area. 23

24 Q And if someone like BellSouth procured fiber in a 25 national contract or AT&T or MCI or anybody else and were

1 going to provide service in Sprint-Florida, isn't it true 2 that if those fiber prices could be validated they would be 3 appropriately considered by this Commission?

Well, I guess so. I guess I would also offer A 4 that to the extent the Commission gathers real-world 5 information, and I think in general the ILECs have provided 6 some real-world information, we are buying a lot of fiber 7 cable. We are placing it. It's clearly the best 8 infor tion available on the price of fiber cable. If the 9 material costs of that shows some similarity between the 10 ILECs, I would not be opposed for administrative purposes 11 in looking at some melding of those; but what I've done is 12 provide the best information possible to predict the cost 13 in my serving area. Where we go from there, you know I'm 14 not certain. I don't -- had not had an opportunity to look 15 at MCI or AT&T's fiber cost. 16

Q So when you say that Sprint's Florida-specific costs are the best predictor of the forward-looking cost of building a fiber network in Florida, you nevertheless are willing to concede that national validated contract amounts for the procurement of fiber may be appropriately considered by this Commission, correct?

A Well, we were just talking about material prices.
 Q Correct.

A And what I said was, if you were to gather

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similar real-world information based on a real company purchasing and installing substantial amounts of fiber and there is some similarity in that, I'm saying the Holy Grail here is not just to be company specific. The reason why I provided that level of information is because it's real world. It's accurate. It's the best predictor of forward-looking costs.

8 If there is some opportunity to ease the 9 administration of this, once it's implemented, by saying, 10 okay, Sprint's real-world fiber costs are within 95% of GTE 11 and BellSouth's, I'm not a foolish man, you know, we could 12 meld those together if there is some opportunity to do 13 that. But the first step is to make sure you've got good 14 information before you take that leap.

Q Continuing down your list, isn't it true that the copper cable costs you cited next, the drops, the digital loop carrier costs, are all costs which are procured through national contracts?

A Again, we are talking just the material portion.
 Q Correct.

A Yes, that's correct, and let's go through that. Copper, you know, I think the same discussion we just had would apply. Over 60% of the costs here are labor costs, which are very specific to markets served. I do -- you know, I'm responsible for 19 states. I've testified in

four proceedings in the last three weeks. I've been involved in USF and UNE proceedings across 19 states. It does vary. Digital loop carrier devices most certainly varies. I've seen representations of proprietary information by other companies that evidently have different prices for the purchase of digital loop carrier than what I know for a fact to be Sprint's purchase price.

2362

8 Q And those also are national values that with
9 validation are properly considered by this Commission,
10 correct?

The material portion, and I guess let's -- you A 11 know, since you seem to be interested in that, to the 12 extent that it's -- Sprint runs its operation as 13 efficiently as possible, and to the extent that you can get 14 the best material price possible by taking advantage of 15 your entire corporation's operation, that's certainly what 16 we do. So when we purchase material, to the extent it can 17 be done on a national basis to get the lowest price 18 possible, that's what we do. 19

That's not to be confused with the -- one, with an assertion that Sprint buys DLCs or cable for the same price as GTE or AT&T or BellSouth or any other company, which is the suggestion of the HAI input. Completely two different things. Second of all, as I've said several times, the labor costs are specific to Sprint of Florida,

1 and they are the more material portion of costs.

Q Is it a fair assessment of your testimony that while you believe that the labor costs are more than half, you have indicated approximately that 40% of the cost is the material cost?

A For cable.

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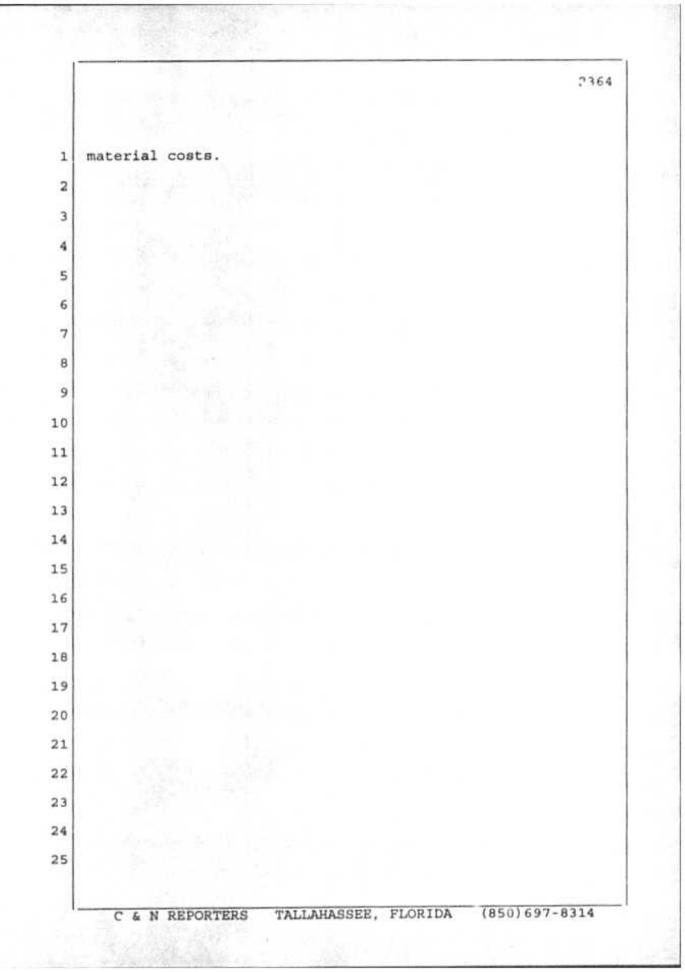
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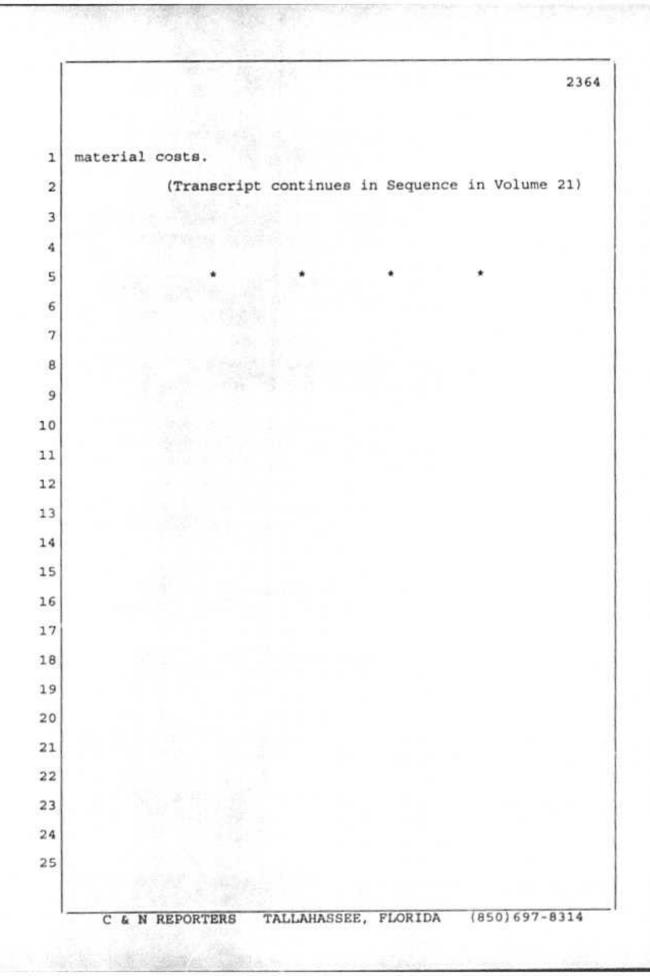
Q Okay. Now if Bell --

A And I also, to review that, pointed out that is 8 just . r that portion of BCPM input related to installed 9 cable. The cost of creating the trench, the cost of 10 putting the conduit in, the cost of the poles is almost 11 entirely labor costs; and that's all Sprint of Florida 12 specific. Where you'd add that in, that 40% would become 13 dramatically lower. So far and away, the material costs we 14 are talking about here are labor costs which are specific 15 to markets served. 16

17 Q And by that you are considering something over 18 half or over two thirds to be far and away material?

19 A Well, I already know from my own analysis of just 20 the install, if you understand the BCPM, there is per foot 21 costs of aerial, buried and underground copper cable. 22 There is per foot cost of fiber. At that input, 60% of 23 that approximately is labor. Then all the structure costs 24 that we are talking about are almost entirely labor with 25 exception of pole material costs and anchors and guys





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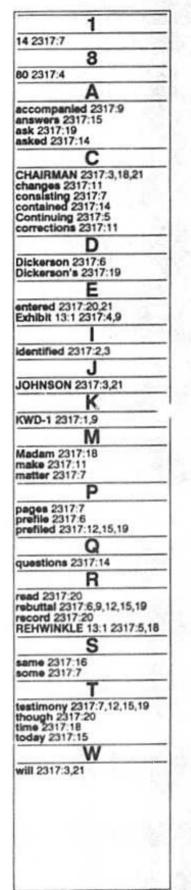
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