BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

REBUTTAL TESTIMONY OF

BRIAN F. PITKIN

ON BEHALF OF

AT&T COMMUNICATIONS OF THE SOUTHERN STATES, INC.

And

MCI WORLDCOM, INC.

Docket No. 990649A-TP

DECLASSIFICATION DE DE LA SERDIFICAL

PROPRIETARY INCLUDE EXHIBITS

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1 <u>I. INTRODUCTION</u>

2	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
3	A.	My name is Brian F. Pitkin. I am a Director in the Financial Services
4		Division of FTI Consulting, Inc., with offices located at 66 Canal Center
5		Plaza, Suite 670, Alexandria, Virginia 22314.
	_	
6	Q.	PLEASE DESCRIBE YOUR BACKGROUND.
7	A.	My background, qualifications and experience are described in
8		Attachment BFP-1 to this testimony.
9	Q.	HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS
10		COMMISSION?
11	A.	Yes, I previously testified in this proceeding on July 31, 2000 and August
12		28, 2000. In addition, I filed testimony in Docket No. 980696-TP on
13		September 2, 1998.
14	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
15	A.	I have been asked by AT&T Communications of the Southern States, Inc.
16		("AT&T") and MCI WorldCom, Inc. ("WorldCom") to review and
17		comment on the bottoms-up version of the BellSouth Telecommunications

Loop Model[©] ("BSTLM") that the Florida Public Service Commission 1 2 ("Commission") required BellSouth to file in this proceeding.

Q. HOW IS YOUR TESTIMONY ORGANIZED?

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A. In Section II, I describe the requirements of Order No. PSC-01-1181-FOF-TP ("FL UNE Order"), issued May 25, 2001, in Docket No. 990649-TP. 6 In Section III, I discuss the inputs and methodologies that have been used by BellSouth in this filing and explain why they fail to satisfy the Commission's requirements. In addition, I explain the modifications I 8 have made in my restatement of BellSouth's models. Finally, in Section 10 IV, I summarize my testimony and explain why the BSTLM and the BellSouth Cost Calculator ("BSCC"), with proper modifications, can be used to generate bottoms-up UNE results for the outside plant portion of the local telephone network.

II. REQUIREMENTS OF THE COMMISSION'S FL UNE ORDER

WHAT DID THE COMMISSION ORDER IN FL UNE ORDER? 15 Q.

A. In its FL UNE Order, the Florida Public Service Commission ("Commission") required BellSouth to re-file its BSTLM and BSCC. The 18 new models were to "explicitly" model "all cable and associated supporting structure engineering and installation placements" (FL UNE

1		Order, page 234), as opposed to utilizing ratios to develop engineered,
2		furnished and installed costs ("EF&I") as was done in BellSouth's
3		initial application of the BSTLM in this proceeding.
4		The Commission gave BellSouth 120 days to refile the model using a
5		"bottoms up approach," including "all BellSouth assumptions used in
6		developing cable placements, the basis and source data for the revised
7		input values, and a clear identification and listing of all input values." Id.
8	Q.	WHY DID THE COMMISSION ORDER BELLSOUTH TO REFILE
9		ITS COST MODELS?
10	A.	The Commission ordered the use of a "bottoms up approach" because it
11		was "troubled by BellSouth's use of linear in-plant factors" which "distort
12		costs between rural and urban areas." Id. The Commission also noted that,
13		"BellSouth could not provide any evidence demonstrating that installation
14	_	costs are directly proportional to material prices." Id.
15	III.	DEFICIENCIES IN THE BOTTOMS-UP BSTLM AND MY
16		MODIFICATIONS TO THE MODEL
17	Q.	DOES THE MODEL FILED BY BELLSOUTH SATISFY THE
18		COMMISSION'S REQUIREMENTS?
19	A.	No. BellSouth's cost model fails to meet the Commission's requirements
20		in a number of significant ways. First, as discussed in more detail by Mr.

Donovan in his testimony, many of the inputs used by BellSouth in its most recent filing are unsupported, and continue to distort the costs between urban and rural areas. Second, the bottoms-up version of the BSTLM filed by BellSouth contains errors in its algorithms. Third, the bottoms-up version of the BSTLM still relies on "loadings" that are multiplied by material values in order to develop the total investments that are used in this version of the BSTLM. Furthermore, these loadings are overstated, double-count certain investments, and continue to distort costs between rural and urban areas. Fourth, BellSouth failed to use a bottoms-up approach to develop DLC investments and therefore continues to overstate investment and distort de-averaged costs.

Q. CAN THE MODEL BE CORRECTED TO PRODUCE A

BOTTOMS-UP UNE COST THAT SATISFIES THE

COMMISSION'S REQUIREMENTS?

A. Yes. In his testimony, Mr. Donovan addresses the first of the deficiencies identified in my previous answer, and describes the changes to the inputs necessary to correctly estimate UNE costs using the model. My testimony focuses on items two through four, and explains how the BSTLM uses the inputs sponsored by Mr. Donovan.

1		A. The BSTLM Contains Three Algorithm Errors that Must
2		<u>Corrected</u>
3	Q.	WHAT ARE THE ERRORS IN THE BOTTOMS-UP BSTLM
4		ALGORITHMS THAT YOU HAVE IDENTIFIED TO-DATE?
5	A.	There are three errors in the bottoms-up BSTLM algorithms that cause the
6		model to overstate costs. The first error involves the calculation of EF&I
7		costs for fiber cable. The second error results from BellSouth including
8		additional, and unnecessary, costs for stub cable in underground facilities.
9		The third error occurs by using incorrect structure sharing values in certain
10		calculations.
11	Q.	WHAT IS THE ERROR INVOLVING THE CALCULATION OF
12		EF&I COSTS FOR FIBER CABLE?
13	A.	The bottoms-up model mistakenly applied copper placing and splicing
14		costs to fiber cable, which causes the model to overstate fiber investments.
15	Q.	WERE YOU ABLE TO CORRECT THE EF&I CALCULATION
16		FOR FIBER CABLE?
17	A.	Yes. I corrected this error by changing the calculation in the "3-Media"
18		sheet of the "InvestLogic.xls" file of the BSTLM. Specifically, I modified
19		the formulas in Cells "AD5" through "AD7" to use the fiber placing and

splicing cost in the calculation of the *fiber* cable EF&I cost. Attachment

BFP-2 walks through BellSouth's original calculation and shows my

corrections to these calculations.

Q. WHAT IS THE ERROR REGARDING STUB CABLE

5 INVESTMENT?

A. In its bottoms-up BSTLM, BellSouth inappropriately places additional costs for stub cables in its underground facilities. In his testimony, Mr.

Donovan explains that this investment is not consistent with the way one would construct a forward-looking network, and is unnecessary given that the BSTLM does not model the network in a configuration that would require copper cable stubs.

Q. WERE YOU ABLE TO ELIMINATE THE STUB CABLE

INVESTMENT?

A. Yes. I have corrected BellSouth's overstatement by removing the stub cable investment from the underground facilities in the "3-Media" sheet of the "InvestLogic.xls" file of the BSTLM by modifying the formulas in Cell "AB2" to eliminate any investment associated with stub cables. Attachment BFP-3 walks through BellSouth's original calculation and shows my corrections to these calculations.

Q. WHAT IS THE ERROR INVOLVING THE STRUCTURE

2 SHARING CALCULATIONS?

A.

A. The bottoms-up model mistakenly applied *urban* structure sharing amounts to *rural* and *suburban* structure, which causes the model to understate structure investments.

6 Q. WERE YOU ABLE TO CORRECT THE STRUCTURE SHARING

CALCULATIONS?

Yes. I corrected this error by changing the calculation in the "StructureConduit Interim Calc" sheet and the "StructureBuried Interim Calc" sheet of the "InvestLogic.xls" file of the BSTLM. Specifically, in the "StructureConduit Interim Calc" sheet, I modified the formulas in Cells "I34" through "I41" to use the *suburban* structure sharing amounts in the calculation of the *suburban* structure and in Cells "I47" through "I54" to use the *rural* structure sharing amounts in the calculation of the *rural* structure. In the "StructureBuried Interim Calc" sheet, I modified the formulas in Cells "I22" through "I33" to use the *suburban* structure sharing amounts in the calculation of the *suburban* structure and in Cells "I39" through "I50" to use the *rural* structure sharing amounts in the calculation of the *rural* structure. Attachment BFP-9 walks through BellSouth's original calculation and shows my corrections to these calculations.

B. BellSouth's Material Loadings are Overstated

Q. DOES THE BOTTOMS-UP MODEL FILED BY BELLSOUTH STILL CONTAIN LINEAR LOADING FACTORS?

A.

A. Yes. BellSouth still includes linear loading factors in the BSTLM -exactly the type of linear loading factors that this Commission previously
concluded were the cause of cost distortions. These factors are intended to
recover the cost of exempt material, supplies, indirect labor, rights of way,
and interest during construction.

Q. ARE THERE PROBLEMS ASSOCIATED WITH BELLSOUTH'S USE OF LINEAR LOADING FACTORS?

Yes. First, BellSouth has developed these factors using its historical data. Data of this nature are not appropriate for use in a TELRIC model. One simple reason for this is that experience from BellSouth's continuing operations are not an appropriate basis for estimating start-up TELRIC investment. Although these data may be appropriate for developing certain on-going operating costs of a network, there is no evidence that suggests historical data are relevant to the determination of investments. For example, one would expect a higher ratio of exempt material investment to non-exempt material investment when analyzing the repairs and small rehabilitations that are reflected in the actual BellSouth historical data but a smaller ratio would almost certainly be associated

1	with the large-scale projects that are inherent in the construction of the
2	entire network that underlies TELRIC. BellSouth has not provided any
3	evidence to support the use of ratios based on embedded data in
4	developing forward-looking investments.
5	Second, BellSouth's linear loading factors are problematic because they
6	rely on only a single year's data from 1998. Thus, a high ratio of
7	exempt material to non-exempt material in this single year would
8	significantly overstate TELRIC.
9	Third, use of linear loading factors as multipliers on non-exempt material
10	investment is not an appropriate basis for developing forward-looking
11	exempt material investments. As Mr. Donovan explains, exempt material
12	is typically treated as a proportion of labor, not as a proportion of material.
13	Thus, BellSouth's approach of using linear loading factors is incorrectly
14	developed and applied.
15	In addition to the above problems, there are errors in BellSouth's
16	development of linear loading factors for exempt material and indirect
17	labor.

Q. WHY IS BELLSOUTH'S DEVELOPMENT OF A LINEAR LOADING FACTOR FOR EXEMPT MATERIAL INCORRECT?

A. Exempt material typically includes the investments associated with "minor items of plant supplies." (BellSouth Cost Studies, Appendix B,

Attachment 5) These investments include items such as drop wires and network interface devices ("NIDs"). In fact, Ms. Caldwell acknowledges this in her Reply Affidavit before the Federal Communications Commission in the Georgia 271 proceeding:

The material costs of the service drop wires and associated NID units are classified to exempt material. The cost of exempt material, however, is distributed as part of the monthly allocations process to the various ACCs (including ACC 248 and ACC 548) based on the direct labor dollars associated with each ACC (Reply Affidavit of D. Daonne Caldwell, CC Docket No. 01-277, paragraph 37)

Because the BSTLM explicitly models the costs of NIDs and drops, the exempt material loading factor should exclude these items. BellSouth did not remove any of the exempt materials associated with NIDs or drop wires in its calculation of the exempt material loading factor and thus double-counts these investments. In fact, BellSouth has not identified each item that is included in exempt material. Unless BellSouth produces information sufficient to determine that it properly eliminated all such inappropriate and double-counted material from the calculation of the exempt material loading factor, this Commission should reject BellSouth's loading factor estimates.

In addition, Ms. Caldwell's above statements support Mr. Donovan's assertion that exempt materials are typically attributed on the basis labor

1		costs, not material costs. Thus, these costs should not be attributed to
2		material costs as BellSouth has chosen to do in this filing.
3	_ Q.	WHY IS BELLSOUTH'S DEVELOPMENT OF A LINEAR
4		LOADING FACTOR FOR INDIRECT LABOR INCORRECT?
5	A.	Indirect plant labor includes "the standard rated salaries and wages for
6		supervision and support above first level for work reporting plant labor

A.

Again, I understand from Mr. Donovan that indirect labor is typically a function of direct labor, not material investment. In addition, I understand that BellSouth's labor rates are already "loaded" labor rates that include an allowance for indirect labor.

employees." (BellSouth Cost Studies, Appendix B, Attachment 5)

Q. HOW HAVE YOU IMPLEMENTED ADJUSTMENTS TO CORRECT FOR BELLSOUTH'S INCORRECT LINEAR LOADING FACTORS?

While I am skeptical about the use of BellSouth's linear loading factors for supplies, rights of way and interest during construction, I have left them in my restatements -- which likely overstate the appropriate amount of these factors that should be applied in a TELRIC environment. I urge this Commission to require BellSouth to produce all necessary information to determine exactly what items are included in each of these factors and

identify the source of these costs (i.e., describe how interest during construction is calculated and what it is applied to, on a detailed basis).

However, consistent with Mr. Donovan's testimony (and the testimony of Ms. Caldwell), I have applied material loadings as a factor on labor instead of material. Specifically, I have increased the labor costs by 20 percent to account for exempt material, consistent with the recommendation of Mr. Donovan. In addition, I have removed the indirect labor loading from BellSouth's linear loading factors, consistent with the recommendation of Mr. Donovan.

I have included, as Attachment BFP-4, an illustration of BellSouth's development of linear loading factors for underground cable.

C. BellSouth's Inflation Factor is Overstated

Q. ARE THE INFLATION RATES USED BY BELLSOUTH CORRECT?

A. No. BellSouth uses inflation rates that are too high as well as unreliable. In this proceeding, BellSouth uses a combination of actual and forecasted inflation rates to adjust its costs. These inflation rates purport to be BellSouth-specific indices reflecting the actual historical inflation that BellSouth experienced through 1997. BellSouth then used these historical

data to estimate inflation for subsequent years, including the 2000, 2001 and 2002 data that are used in the model.

My first major concern is that BellSouth has provided no information supporting its development of these inflation factors. Thus, I (and the Commission) have no way of evaluating the reasonableness of BellSouth's forecasts. This is important because BellSouth is using historical data to estimate inflation three to five years in the future.

My second major concern is related. BellSouth could have used historical data for the years 2000 and 2001, which is available and obviously is a more reliable indicator of inflation during these two years than are the unexplained forecasts for 2000 and 2001 that BellSouth has employed. I compared BellSouth's forecasted data for these two years with the C. A. Turner Telephone Plant Indices ("TPI") for these two years to evaluate the reasonableness of BellSouth's forecast data. This evaluation showed that BellSouth's forecast-based inflation assumptions are significantly overstated.

Thus, I have revised BellSouth's inflation assumptions to reflect actual data (as reported in the TPI) for the years 2000 and 2001. From this point, I needed only to estimate inflation for the year 2002. In order to do so, I used a simple linear trend. I have included, as Attachment BFP-5, a comparison of BellSouth's inflation assumptions for underground copper

1		cable to the data contained in the TPI (and my estimate for 2002) for the
2		years 2000 to 2002.
3		D. BellSouth's Engineering Factors are Overstated
4	Q.	ARE BELLSOUTH'S ENGINEERING FACTORS APPROPRIATE?
5	A.	No. BellSouth uses engineering loading factors of 37 percent for fiber
6		facilities and 25 percent for copper facilities, conduit and pole. Based on
7		discussions with Mr. Donovan, I have changed both of BellSouth's
8		overstated engineering factors to 10 percent.
9		E. BellSouth's DLC Loadings are Overstated
10	Q.	DID BELLSOUTH RESTATE DIGITAL LOOP CARRIER
11		INVESTMENTS USING A BOTTOMS-UP APPROACH?
12	A.	No. BellSouth failed to use a bottoms-up approach to develop DLC
13		investment. This failure continues to distort the DLC costs that the model
14		develops for various geographic areas. Because BellSouth failed to make
15		these modifications, I was forced to use an in-plant factor to develop the

engineering and installation cost for DLC equipment.

Q. WHAT FACTOR DID YOU USE FOR ENGINEERING AND INSTALLATION COSTS OF DLC EQUIPMENT?

A.

I am using the same DLC in-plant factor that Mr. Donovan and I recommended in the first phase of this proceeding. My rationale for this approach is that the factor we developed at the time is based on a detailed, bottoms-up approach. Thus, it is the most accurate approach before this Commission to approximate what would result from a true, bottoms-up approach.

Without wanting to repeat our prior testimony, Mr. Donovan previously modified BellSouth's factors to reflect an appropriate amount of engineering and installation costs. Specifically, the engineering and installation cost should reflect the installation of equipment that has been

completely assembled and tested at the factory. Once the equipment is on site and bolted to its mounting pad, the only assembly required consists of connecting local power, connecting drop facilities, connecting optical fiber facilities, installing the back-up batteries, and plugging the circuit packs into their assigned locations in the racks.

[Alcatel Litespan 2000 DLC practice]

We believe the appropriate number of hours required to install preassembled DLC equipment are those which were used as inputs in the HAI Model. Therefore, we have calculated the ratio of installed investment in the HAI Model to material investment in the HAI Model to arrive at an

1		appropriate installation and engineering factor for DEC equipment.
2		Attachment BFP-6 details how these factors were derived.
3		F. BellSouth's Bottoms-Up Inputs are Overstated
4	Q.	ARE BELLSOUTH'S BOTTOMS-UP INPUTS APPROPRIATE
5		FOR USE IN THIS PROCEEDING?
6	Α.	No. As Mr. Donovan explains in his testimony, BellSouth's inputs serve
7		to significantly overstate the TELRIC of providing UNEs in Florida. I
8		have worked with Mr. Donovan to evaluate the inputs in the BSTLM and
9		to understand how the inputs are used in the model. Based on those
10		discussions, I have included more appropriate inputs which are
11		supported in Mr. Donovan's testimony in my restatement of the
12		BSTLM.
13		I have included, as Attachment BFP-7 to my testimony, a comparison of
14		BellSouth's original inputs to the inputs that Mr. Donovan and I propose.
15	Q.	HAVE YOU PREPARED ANYTHING TO ASSIST THE
16		COMMISSION IN UNDERSTANDING THE CHANGES YOU ARE
17		ADVOCATING IN YOUR TESTIMONY?
18	A.	Yes. I have included, as Attachment BFP-8, a series of illustrations that
19		show how the changes I advocate in this testimony work in the BSTLM.

In other words, I attempt to take the algorithms in the BSTLM and break them apart to show the Commission how BellSouth is developing its fully-loaded, bottoms-up investments. I then incorporate the changes I identify above into the illustrations to assist the Commission in evaluating my restatements.

In addition, I have attempted to compare these modified inputs and calculations, where appropriate, to the inputs developed by the FCC for use in the Synthesis Model. I believe that this provides additional valuable information for this Commission to evaluate when reaching its conclusions. In others words, I believe that a comparison with the FCC's inputs provides a sanity check on the inputs used in the BSTLM. This Commission should question any inputs proposed by BellSouth that, once put on an equivalent basis (i.e., fully loaded) are significantly out of line with what the FCC has concluded based on significant evaluation.

IV. SUMMARY AND CONCLUSIONS

Q. WILL YOU PLEASE SUMMARIZE YOUR TESTIMONY?

- A. The model filed by BellSouth fails to satisfy the requirements of the Commission's *FL UNE Order*. To correct the problems in BellSouth's model and produce bottoms-up results, I urge the Commission to:
 - Correct the algorithm errors in the BSTLM;

1		 Reject BellSouth's loading factors and rely on the corrections
2		developed by myself and Mr. Donovan;
3		Reject BellSouth's installation and engineering factors for DLC
4		equipment and rely on the more appropriate factors we previously
5		sponsored, which are based on a bottoms-up analysis;
6		Reject BellSouth's inputs and rely on Mr. Donovan's more appropriate
7		inputs.
8		If these corrections are made, the BSTLM would produce results that are
9		consistent with TELRIC and satisfy the Commission's requirement to
10		model "all cable and associated supporting structure engineering and
11		installation placements." (FL UNE Order, page 234). Attachment BFP-10
12		is the result of a revised BSTLM run incorporating the changes I have
13		described herein.
14	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?
15	A.	Yes.

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CURRICULUM VITAE

OF

BRIAN F. PITKIN

EDUCATION

University of Virginia, McIntire School of Commerce, Charlottesville, Virginia, 1993

Bachelor of Science in Commerce - Dual Concentrations in Finance and Management Information Systems

EMPLOYMENT HISTORY

Peterson Consulting, LLP, Washington, DC, 1993 - 1994 Consultant

FTI/Klick, Kent & Allen, Alexandria, Virginia, 1994 - Present Director

TESTIMONY

United States District Court, Central District of California, Western Division

December 4, 2000

Case No.:99-11641 RSWL (RCx). Arthur Simon and John Galley, III On Behalf of Themselves and All Persons Similarly Situated vs. American Telephone & Telegraph Crop,; At Home Corporation; Arahova Communications, Inc.; Cox Communications, Inc.; Comcast Corporation; Cablevision Systems Corp,; Garden State Cable Vision LP; Jones Intercable, Inc.; Time Warner, Inc,; Time Warner Entertainment Co., L.P.; TWE-A/N Partnership; TWI Cable, Inc.; MediaOne Group; ServiceCo L.L.C.; and Tele-Communications, Inc. Declaration of John C. Klick and Brian F. Pitkin in Support of Defendants' Motion in Opposition to Plaintiff's Motion for Class Certification.

Federal Communications Commission

May 26, 1999	CC Docket No. 96-98. Implementation of the Local Competition Provisions of the Telecommunications Act of 1996. Affidavit of John C. Klick and Brian F. Pitkin.
May 26, 1999	CC Docket No. 96-98. Implementation of the Local Competition Provisions of the Telecommunications Act of 1996. Affidavit of Michael J. Boyles, John C. Klick and Brian F. Pitkin.
June 10, 1999	CC Docket No. 96-98. Implementation of the Local Competition Provisions of the Telecommunications Act of 1996. Reply Affidavit of Michael R. Baranowski, John C. Klick and Brian F. Pitkin.
July 31, 2001	CC Docket No. 00-251, 00-218. In the Matter of Petition of AT&T Communications of Virginia, Inc. and WorldCom, Inc., Pursuant to Section 252(e)(5) of the Communications Act, for Preemption of the Jurisdiction of the Virginia State Corporation Commission

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Regarding Interconnection Disputes with Verizon-Virginia, Inc. Direct Testimony of Brian

F. Pitkin.

September 21, 2001 CC Docket No. 00-251, 00-218. In the Matter of Petition of AT&T Communications of

Virginia, Inc. and WorldCom, Inc., Pursuant to Section 252(e)(5) of the Communications Act, for Preemption of the Jurisdiction of the Virginia State Corporation Commission Regarding Interconnection Disputes with Verizon-Virginia, Inc. Surrebuttal Testimony of

Brian F. Pitkin.

Alabama Public Service Commission

Docket No. 25980. Implementation of the Universal Support Requirements. Rebuttal February 13, 1998

Testimony of Brian F. Pitkin.

Florida Public Service Commission

Docket No. 980696-TP. Determination of the Cost of Basic Local Telecommunications September 2, 1998

Service, Pursuant to Section 364.025, Florida Statutes. Rebuttal Testimony of Don J. Wood

and Brian F. Pitkin.

Docket No. 990649-TP. Investigation into Pricing of Unbundled Network Elements. July 31, 2000

Rebuttal Testimony of John C. Donovan and Brian F. Pitkin.

Docket No. 990649-TP. Investigation into Pricing of Unbundled Network Elements. August 28, 2000

Supplemental Rebuttal Testimony of John C. Donovan and Brian F. Pitkin.

Georgia Public Service Commission

Docket No. 5825-U. Universal Access Fund, Transition to Phase II Pursuant to O.C.G.A. § August 1, 2000

46-5-167. Direct Testimony of John C. Donovan and Brian F. Pitkin.

Docket No. 5825-U. Universal Access Fund, Transition to Phase II Pursuant to O.C.G.A. § September 8, 2000

46-5-167. Rebuttal Testimony of John C. Donovan and Brian F. Pitkin.

October 2, 2000 Docket No. 5825-U. Universal Access Fund, Transition to Phase II Pursuant to O.C.G.A. §

46-5-167. Reply to Rebuttal Testimony of John C. Donovan and Brian F. Pitkin.

State Corporation Commission of the State of Kansas

Docket No. 99-GIMT-326-GIT. Investigation into the Kansas Universal Service Fund May 25, 1999

(KUSF) Mechanism for the Purpose of Modifying the KUSF and Establishing a Cost-based

Fund. Direct Testimony of Brian F. Pitkin.

Maryland Public Service Commission

March 23, 2001 Case No. 8745. In the Matter of the Provision of Universal Service to Telecommunications

Consumers. Direct Testimony of Brian F. Pitkin.

Case No. 8745. In the Matter of the Provision of Universal Service to Telecommunications May 21, 2001

Consumers. Rebuttal Testimony of Brian F. Pitkin.

Case No. 8879. In the Matter of the Investigation into Rates for Unbundled Network May 25, 2001

Elements Pursuant to the Telecommunications Act of 1996. Direct Testimony of Brian F.

Pitkin.

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June 11, 2001 Case No. 8745. In the Matter of the Provision of Universal Service to Telecommunications

Consumers. Surrebuttal Testimony of Brian F. Pitkin.

July 24, 2001 Case No. 8879. In the Matter of the Investigation into Rates for Unbundled Network

Elements Pursuant to the Telecommunications Act of 1996. Supplemental Direct

Testimony of Brian F. Pitkin.

October 15, 2001 Case No. 8879. In the Matter of the Investigation into Rates for Unbundled Network

Elements Pursuant to the Telecommunications Act of 1996. Surrebuttal Testimony of

Brian F. Pitkin.

Minnesota Public Utilities Commission

July 14, 1998 Docket No. P-442, 5321, 3167, 466, 421/CI-96-1540. Commission's Generic Investigation

of U S West Communications, Inc.'s Cost of Providing Interconnection and Unbundled Network Elements. Supplemental Direct Testimony of John C. Klick and Brian F. Pitkin.

Mississippi Public Service Commission

March 6, 1998 Docket No. 98-AD-035. Mississippi Universal Service Docket. Rebuttal Testimony of

Brian F. Pitkin.

Public Service Commission of Missouri

September 25, 1998 Docket No. TO-98-329. Investigation into Various Issues Related to the Missouri

Universal Service Fund. Rebuttal Testimony of Brian F. Pitkin, adopted by John C. Klick.

Public Service Commission of the State of Montana

December 31, 1997 Docket No. D97.9.167. Investigation of the Commission Implementation of a Forward

Looking Universal Service Cost Model. Direct Testimony of Brian F. Pitkin, adopted by

Michael Hydock.

February 13, 1998 Docket No. D97.9.167. Investigation of the Commission Implementation of a Forward

Looking Universal Service Cost Model. Supplemental Testimony of Brian F. Pitkin,

adopted by Michael Hydock.

February 20, 1998 Docket No. D97.9.167. Investigation of the Commission Implementation of a Forward

Looking Universal Service Cost Model. Rebuttal Testimony of Brian F. Pitkin, adopted by

Michael Hydock.

Telecommunications Regulatory Board of Puerto Rico

May 1, 2001 Case No.'s 97-Q-0001 & 97-Q-0003. In the matter of Puerto Rico Telephone Company

Tariff K-2. Direct Testimony of Brian F. Pitkin.

May 15, 2001 Case No.'s 97-Q-0001 & 97-Q-0003. In the matter of Puerto Rico Telephone Company

Tariff K-2. Rebuttal Testimony of Brian F. Pitkin.

November 9, 2001 Case No. JRT-2001-AR-0002. In the matter of Arbitration of Interconnection Rates, Terms

and Conditions between WorldNet Telecommunications, Inc. and Puerto Rico Telephone

Company. Direct Testimony of Brian F. Pitkin.

Florida Docket 990649-TP
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South Carolina Public Service Commission

November 10, 1997 Docket No. 97-239-C. Intrastate Universal Service Fund. Adopted the Direct Testimony of

John C. Klick.

March 2, 1998 Docket No. 97-239-C. Intrastate Universal Service Fund. Rebuttal Testimony of Brian F.

Pitkin.

Tennessee Regulatory Authority

April 9, 1998 Docket No. 97-00888 (USF). Universal Service Generic Contested Case. Rebuttal

Testimony of Don J. Wood and Brian F. Pitkin.

Public Utility Commission of Texas

July 16, 1998 Docket No. 18515. Compliance Proceeding for Implementation of the Texas High Cost

Universal Service Plan. Live Rebuttal Testimony of Brian F. Pitkin.

Washington Utilities and Transportation Commission

August 3, 1998 Docket No. UT-980311(a). Determining Costs for Universal Service. Testimony of Brian

F. Pitkin.

August 24, 1998 Docket No. UT-980311(a). Determining Costs for Universal Service. Rebuttal Testimony

of Brian F. Pitkin.

Public Service Commission of the State of Wyoming

January 23, 1998 General Order No. 81. Investigation by the Commission of the Feasibility of Developing

Its Own Costing Model for Use in Determining Federal Universal Service Fund Support

Obligations in Wyoming. Direct Testimony of Brian F. Pitkin.

February 6, 1998 General Order No. 81. Investigation by the Commission of the Feasibility of Developing

Its Own Costing Model for Use in Determining Federal Universal Service Fund Support

Obligations in Wyoming. Rebuttal Testimony of Brian F. Pitkin.

County Board, Arlington Virginia

August 5, 2000 Consideration of the January 18, 2000 Application of Starpower Communications, LLC for

an Arlington County Certificate of Public Convenience and Necessity for Cable Television.

Testimony of Brian F. Pitkin.

Fiber EF&I Error Correction for Underground Fiber Cable

1				BellSouth	.AT&T/WorldCom
Line No.	Description	Formula 10 10 10 10 10 10 10 10 10 10 10 10 10	Rate	with Error	Corrected *
1	Material Cost	BSTLM Input		\$ 0.72	\$ 0.72
2	Material Loading Per Foot	Rate * Ln1	38.55%	\$ 0.28	\$ 0.28
3	Copper Placing Cost for 25 Pair	Attachment 9		\$ 1.23	\$ -
4	Copper Splicing Cost for 25 Pair	Attachment 9		\$ 0.22	\$ -
5	FO Placing Cost	Attachment 9		\$ -	\$ 0.74
6	FO Splicing Cost	Attachment 9		\$ -	\$ 0.20
. 7	Material, Loading and Labor	Ln1 + Ln2 + Ln3 + Ln4 +Ln5 +Ln6		\$ 2.44	\$ 1.93
8	Engineering Loading	Rate * Ln7	35.72%	\$ 0.87	\$ 0.69
9	Total EF&I *	Ln2 + Ln5 + Ln6 + Ln8 *		\$ 2.08	\$ 1.90
10	Overstatement			\$ 0.18	

^{*} BellSouth's calculation of the Total EF&I includes the correct FO placing and splicing cost



Stub Cable Correction for Underground Copper Cable

Line No.	Description	Formula	Rate	BellSouth With Error	AT&T/WorldCom Corrected
1	Copper Cable Size	Assumption		25	25
3	Splicing Set-up Hours	BSTLM Inputs		0	0
4	Splicing Travel Hours	BSTLM Inputs	-	0	0
5	Splicing Labor per 100 pairs	BSTLM Inputs		5.32	5.32
6	Splicing Labor Hours per 100 pairs for Stub	BSTLM Inputs		5.32	0
7	Splicing Hours	Ln3 + Ln4 +(Ln5 +Ln6)*Ln1 / 100		2.66	1.33
8	Splicing Cost	Labor Rate * Ln7	\$ 49.05	\$ 130.47	\$ 65.24



Material Loading Development Comparison for Underground Metallic Cable

Line No.	Description	EXTC NO.	Accounts 1	TEM##	BellSouth	AT&T/WorldCom
1		523	MATERIAL & SUPPLIES	7B	\$ 74,697	\$ 74,697
2		524	GTES - PURCHASES	7B	\$ 147,163	\$ 147,163
3		CJ1	PLANT SUPPL - NON EXEMPT	7B	\$ 2,417,954	\$ 2,417,954
4		CJ4	REUSED MATERIALS	7B	\$	\$ -
5		CJ6	NEW MATERIALS	7B	\$ -	\$
6		CJP	MATL & SUPPLIES - VENDOR	7B	\$ -	\$ -
7	Total Non-Exempt Material Expense	CQ1	Sum (Ln1 : Ln6)		\$ 2,639,814	\$ 2,639,814
8	Total Non-Exempt Material less sales tax		Ln7 / 1.06 (tax rate)		\$ 2,490,391	\$ 2,490,391
9	Total Exempt Material Expense	CQ1	EXEMPT MAT'L OVERHEAD	7A	\$ 2,462,924	\$ -
10	Miscellaneous Material Loading		Ln9/Ln8		0.988970981	0
11		CQF	FLD STOCK & CC PROV SALVAGE	1	\$ 157,837	\$ 157,837
12		CQG	FLD STOCK & CC PROV BENEFITS	1 1	\$ 41,450	
13	· · · · · · · · · · · · · · · · · · ·	CQH	FLD STOCK & CC PROV OTHER	1 1	\$ 60,033	
14		cai	OVERHEAD PROV - OTHER	1	\$ 3,322	
15	Total Supply Expense	043	Sum (Ln11 : Ln14)		\$ 262,642	
16	Supply Expense Loading	CQF,CQG,CQH,CQJ	Ln15 / Ln8		0.105462173	0.105462173
17		CPA	PLANT LAB - INDIR SAL	1	\$ 344,240	s -
18		СРВ	PLANT LAB - INDIR BEN	1	\$ 85,443	s <u>-</u>
19		CPC	PLANT LAB - INDIR OTHER	1	\$ 164,766	s -
20	Total Plant Labor Exp.		Sum (Ln17 : Ln19)		\$ 594,449	\$ <u>-</u>
21		451	RIGHT OF WAY	4		
22		464	ROW - A QUIRE CONTR	4	s -	-
23		644	ROW - SRV & APPRAISAL	4	\$ 2,470	\$ 2,470
24		48J	CPL - ROW & TREE TRIM	4	\$ -	\$ -
25		59H	ROW - LEASE	4	\$ -	\$ -
26		79A	ROW - PERMITS & FEES	4	\$ 1,486	\$ 1,486
27	Total Right of Way Expense		Sum (Ln21 : L26)		\$ 3,956	\$ 3,956
28	Interest During Construction Items	780	INTEREST	4	\$ 78,421	\$ 78,421
29	Total Other Expense		Ln20 + Ln27 + Ln28		\$ 676,826	\$ 82,377
30	Other Expense Loading	451,464,644,48J,59H,79A	Ln29 / Ln8	-	0.271775042	0.033077944

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1:

Comparison of BellSouth Inflation Loading to AT&T-WorldCom

Line No.	Description	Formula	BellSouth	AT&T/WorldCom TPI
1	2000 Telephone Plant Index (TPI)	BellSouth or Turner TPI	5.00	(4.65)
2	2001 TPI	BellSouth or Turner TPI	4.00	4.88
3	2002 TPI	BellSouth or Turner TPI	4.00	1.52
4	2000 Inflation Rate	1+ (Ln1 / 100)	1.05000	0.95349
5	2001 Inflation Rate	(1+ (Ln2 / 100)) * Ln4	1.09200	1.00000
6	2002 Inflation Rate	(1+ (Ln3 / 100)) * Ln5	1.13568	1.01519
7	Total Inflation	Ln4 + Ln5 + Ln6	3.27768	2.96868
8	Investment Inflation Loading	Ln7/3	1.09256	0.98956



DLC In-Plant Factor Development

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Remote Terminal

Central Office Terminal

Equipment Equipment Description	Total Cost	Plug-in or Hardwire
Cabinet	\$ 27,500.00	Hardwire
SONET Transceivers	4,500.00	Plug-In
Mulitplexer Commons	2,000.00	Plug-In
Time Slot Interchanger	3,500.00	Plug-In
Channel Bank Assemblies	4,000.00	Hardwire
Channel Bank Assembly Commons	2,500.00	Plug-In

Equipment Description	Total Cost	Plug-In or Hardwire
SONET Firmware	\$ 7,000.00	Hardwire
Sonet Transceivers	4,500.00	Plug-In
Multiplexer Commons	2,000.00	Plug-In
Time Slot Interchanger	3,500.00	Plug-In
DS-1 Shelf Commons	500.00	Plug-In
DSX-1 & Gabling	800.00	Hardwire

77.14.44.4.7.7				\$ 31,500.00	Lordwire
Subt.	otal Domoto Torm	inal Equipment	and the second s	a 31,000.00	Lauwiie
I Oubl	oral izeniore i etti	mai Equipment		70 -00000	The same plants of the same and the same of
400000				12.500.00	I Plug-in

	\$ 7,800,00 Hardwire
Subtotal Central Office Terminal Equipment	
	10,500.00 Plug-in

Task Description	Labor Hours	- Rate	Total Labor	Plug-In or Hardwire
Engineering	32.00	55.00	\$ 1,760.00	Hardwire
Place Cabinet	4.00	55.00	+ 220.00	Hardwire
Copper Splicing	4.00	55.00	220.00	Hardwire
Place Batteries & Turn Up Power	2.00	55.00	110.00	Hardwire
Place Common Plug Ins (21 ea.)	0.50	55.00	27.50	Plug-In
Turn Up & Test System	3.00	55.00	165.00	Hardwire
Site Preparation and AC Power			3,000.00	Hardwire

Labor						
Task Description	Hours	Rate	Total Labor	Plug-In or Hardwire		
Engineering	12.00	55.00	\$ 660.00	Hardwire		
Place Frames & Racks	3.00	55.00	165.00	Hardwire		
Splice DSX Metallic Cable	1.00	55.00	55.00	Hardwire		
Place DSX Cross Connections	0.50	55.00	27.50	Hardwire		
Connect Alarms, CO Timing & Power	1.00	55.00	55.00	Hardwire		
Place Common Plug Ins. (21 ea.)	0.50	55.00	27.50	Plug-In		
Turn Up & Test System	3.00	55.00	165.00	Hardwire		

Commence of the second commence of the second of the secon	
	S 5.475.00 Hardwire
Subtotal Remote Terminal Labor	The same of the sa
	27.50 Plua-in
The state of the s	21.30 Flug-III

1 127 50 Hardwire
Subtotal Central Office Terminal Labor

Hardwire Equipment

Plug-In Equipment

Hardwire Total Installed Cost	\$ 45,902.50
Hardwire Material Cost	39,300.00
Hardwire In-Plant Factor	1.16800

Hardwire Total Installed Cost	\$ 23,055.00	£.
Hardwire Material Cost	23,000.00	
Plug-in in-Plant Factor	1.00239	

CONTAINS BELLSOUTH PROPRIETARY INFORMATION





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Input Table	<u>Element</u>	<u>Variable</u>	BellSouth Input	AT&T-WCom Input
Media Spiicing and Placing Hours	AerialCU	Closure and Setup (hours)	0	2.25
Media Splicing and Placing Hours	AerialCU	Placing (hours/100 ft)	1.25	Q.18
Media Splicing and Placing Hours	AerialCU	Splice (hours/100 pairs or hours/strand)	3.32	0.4
Media Splicing and Placing Hours	BuriedCU	Closure and Setup (hours)	0	2.25
Media Splicing and Placing Hours	BuriedCU	Placing (hours/100 ft)	0	0.11
Media Splicing and Placing Hours	BuriedCU	Splice (hours/100 pairs or hours/strand)	3.07	0.4
Media Splicing and Placing Hours	UndergroundCU	Closure and Setup (hours)	0	2.25
Media Splicing and Placing Hours	UndergroundCU	Placing (hours/100 ft)	2.5	0.58
Media Splicing and Placing Hours Media Splicing and Placing Hours	UndergroundCU AerialFO	Splice (hours/100 pairs or hours/strand) Closure and Setup (hours)	5.32 0	0.4 2.25
Media Splicing and Placing Hours	AerialFO	Placing (hours/100 ft)	1.17	0.18
Media Splicing and Placing Hours	AerialFO	Splice (hours/100 pairs or hours/strand)	0.08	0.1
Media Splicing and Placing Hours	BuriedFO	Closure and Setup (hours)	0.55	2.25
Media Splicing and Placing Hours	BuriedFO	Placing (hours/100 ft)	0	0.11
Media Splicing and Placing Hours	BuriedFO	Splice (hours/100 pairs or hours/strand)	0.085	0.1
Media Splicing and Placing Hours	UndergroundFO	Closure and Setup (hours)	0	2.25
Media Splicing and Placing Hours	UndergroundFO	Placing (hours/100 ft)	1.5	0.58
Media Splicing and Placing Hours	UndergroundFO	Splice (hours/100 pairs or hours/strand)	0.1	0.1
Material Loading	AerialCU	Engineering Rate	0.2707	0.1
Material Loading	AerialCU24G	Engineering Rate	0.2707	0.1
Material Loading	AerialFO	Engineering Rate	0.3572	0.1
Material Loading	BuildingCU	Engineering Rate	0.2707	0.1
Material Loading	BuildingCU24G	Engineering Rate	0.2707	0.1
Material Loading	BuildingFO	Engineering Rate	0.3572	0.1
Material Loading	BuriedCU BuriedCU24G	Engineering Rate	0.2707	0.1
Material Loading Material Loading	BuriedFO	Engineering Rate Engineering Rate	0.2707 0.3572	0.1 0.1
Material Loading Material Loading	Conduit	Engineering Rate	0.3372	0.1
Material Loading	IntrabuildingCU	Engineering Rate	0.2707	0.1
Material Loading	IntrabuildingCU24G	Engineering Rate	0.2707	0.1
Material Loading	IntrabuildingFO	Engineering Rate	0.3572	0.1
Material Loading	Pole	Engineering Rate	0.2707	0.1
Material Loading	UndergroundCU	Engineering Rate	0.2707	0.1
Material Loading	UndergroundCU24G	Engineering Rate	0.2707	0.1
Material Loading	UndergroundFO	Engineering Rate	0.3572	0.1
Material Loading	AerialCU	Other Rate	0.342901	0.047103
Material Loading	AerialCU24G	Other Rate	0.342901	0.047103
Material Loading	AerialFO	Other Rate	0.144844	0.069703
Material Loading	BuildingCU	Other Rate	0.273744	0.004078
Material Loading	BuildingCU24G	Other Rate	0.273744	0.004078
Material Loading	BuildingFO	Other Rate	0.348742	0.010254
Material Loading	BuriedCU BuriedCU24G	Other Rate Other Rate	0.226429	0.098799
Material Loading Material Loading	BuriedFO	Other Rate	0.226429 0.093719	0.098799
Material Loading	Conduit	Other Rate	0.093719	0.049723 0.095644
Material Loading	IntrabuildingCU	Other Rate	0.406793	0.016407
Material Loading	IntrabuildingCU24G	Other Rate	0,406793	0.016407
Material Loading	IntrabuildingFO	Other Rate	0.562154	-
Material Loading	Pole	Other Rate	0.161566	0.106971
Material Loading	UndergroundCU	Other Rate	0.271775	0.033078
Material Loading	UndergroundCU24G	Other Rate	0.271775	0.033078
Material Loading	UndergroundFO	Other Rate	0.078187	0.034546
Material Loading	AerialCU	Material Inflation	1.082155	1,009727
Material Loading	AerialCU24G	Material Inflation	1,082155	1.009727
Material Loading	AerialFO	Material Inflation	1.020134	1.028571
Material Loading	BuildingCU	Material Inflation	1.082155	1.009727
Material Loading	BuildingCU24G	Material Inflation	1.082155	1.009727
Material Loading	BuildingFO	Material Inflation	1.020134	1.028571
Material Loading Material Loading	BuriedCU BuriedCU24G	Material Inflation Material Inflation	1.071512	0.978072
Material Loading	BuriedFO	Material Inflation	1.071512 1.040536	0.978072 1.056277
Material Loading	Conduit	Material Inflation	1.069988	1.065983
Material Loading	IntrabuildingCU	Material Inflation	1.09256	1.010421
Material Loading	IntrabuildingCU24G	Material Inflation	1.09256	1.010421
Material Loading	IntrabuildingFO	Material Inflation	1.040536	1.051992
Material Loading	Pole	Material Inflation	1.076832	1.039942
Material Loading	UndergroundCU	Material Inflation	1.09256	0.989559
Material Loading	UndergroundCU24G	Material Inflation	1.09256	0.989559
Material Loading	UndergroundFO	Material Inflation	1	1.041667
Material Loading	AerialCU	Misc. Material Rate	1.21256	0
Material Loading	AerialCU24G	Misc. Material Rate	1.21256	0
Material Loading	AerialFO	Misc. Material Rate	0.305805	0
Material Loading	BuildingCU	Misc. Material Rate	1.114668	0

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Input Table	Element		Variable	BellSouth	AT&T-WCom
Material Loading	BuildingCU24G		Misc. Material Rate	1,114668	<u>mput</u> 0
Material Loading	BuildingFO		Misc. Material Rate	1.442284	Ö
Material Loading	BuriedCU		Misc. Material Rate	0.526531	0
Material Loading	BuriedCU24G		Misc. Material Rate	0.526531	Ō
Material Loading	BuriedFO		Misc. Material Rate	0.182974	0
Material Loading	Conduit		Misc. Material Rate	0.489881	0
Material Loading	IntrabuildingCU		Misc. Material Rate	1.633235	0
Material Loading	IntrabuildingCU24G	-	Misc. Material Rate	1.633235	0
Material Loading	IntrabuildingFO		Misc. Material Rate	2.344201	0
Material Loading	Pole		Misc. Material Rate	0.224429	0
Material Loading	UndergroundCU		Misc. Material Rate	0.988971	0
Material Loading	UndergroundCU24G		Misc. Material Rate	0.988971	0
Material Loading	UndergroundFO		Misc. Material Rate	0.179838	0
Aerial Structure Aerial Structure	Poles 25 Poles 30		Material Cost Material Cost	300.16 300.16	239.31 239.31
Aerial Structure	Poles 35		Material Cost	300.16	239.31
Aerial Structure	Poles 40		Material Cost	300.16	239.31
Aerial Structure	Poles 45		Material Cost	300.16	239.31
Aerial Structure	Poles 50		Material Cost	300.16	239.31
Aerial Structure	Poles 55		Material Cost	300.16	239.31
Aerial Structure	Poles 60		Material Cost	300.16	239.31
Aerial Contract Labor	Poles 25		Contract Labor Cost	233.19	177.23
Aerial Contract Labor	Poles 30		Contract Labor Cost	233.19	177.23
Aerial Contract Labor	Poles 35		Contract Labor Cost	233.19	177.23
Aerial Contract Labor	Poles 40		Contract Labor Cost	233,19	177.23
Aerial Contract Labor	Poles 45		Contract Labor Cost	233.19	177.23
Aerial Contract Labor	Poles 50		Contract Labor Cost	233.19	177.23
Aerial Contract Labor	Poles 55		Contract Labor Cost	233,19	177.23
Aerial Contract Labor	Poles 60		Contract Labor Cost	233.19	177.23
Aerial Contract Labor	Anchor		Contract Labor Cost	99.71	95.39
Aerial Structural Placing Hours	Guy (all types)		Telco Placing Hours Rate/Hour	0.75	0
Labor Rate Labor Rate	Placing Splicing		Rate/Hour	49.05	58.86
Aerial Structure Spacing	Poles 25		Spacing	49.05 120	58.86 184
Aerial Structure Spacing Aerial Structure Spacing	Poles 30		Spacing	120	184
Aerial Structure Spacing	Poles 35		Spacing	120	184
Aerial Structure Spacing	Poles 40		Spacing	120	184
Aerial Structure Spacing	Poles 45		Spacing	120	184
Aerial Structure Spacing	Poles 50		Spacing	120	. 184
Aerial Structure Spacing	Poles 55		Spacing	120	184
. Aerial Structure Spacing	Poles 60		Spacing	120	184
Aerial Structure Spacing	Anchor		Spacing	500	600
Aerial Structure Spacing	Guy (all types)		Spacing	500	600
Underground Contract Labor	Duct CU		Softrock Contract Labor Cost	2.77	0.82
Underground Contract Labor	Duct CU		Normal Contract Labor Cost	2.77	0.82
Underground Contract Labor	Duct CU		Hardrock Contract Labor Cost	2.77	0.82
Underground Contract Labor	Duct CU		Water Contract Labor Cost	2.77	0.82
Underground Contract Labor	Duct FO Duct FO		Softrock Contract Labor Cost Normal Contract Labor Cost	2.77	0.82
Underground Contract Labor Underground Contract Labor	Duct FO		Hardrock Contract Labor Cost	2.77 2.77	0.82
Underground Contract Labor	Duct FO		Water Contract Labor Cost	2.77	0.82 0.82
Underground Excavation Contract Labor	Backhoe Trench		Softrock Contract Labor Cost	14.84	11.44
Underground Excavation Contract Labor	Bore Cable		Softrock Contract Labor Cost	225.77	179.6
Underground Excavation Contract Labor	Cut & Restore Asphalt		Softrock Contract Labor Cost	14.84	15.26
Underground Excavation Contract Labor	Cut & Restore Concrete		Softrock Contract Labor Cost	14.84	14
Underground Excavation Contract Labor	Cut & Restore Sod		Softrock Contract Labor Cost	14.84	12.23
Underground Excavation Contract Labor	Hand Dig Trench		Softrock Contract Labor Cost	14.84	11.44
Underground Excavation Contract Labor	Rocky Trench		Softrock Contract Labor Cost	14.84	11.44
Underground Excavation Contract Labor	Trench & Backfill		Softrock Contract Labor Cost	14.84	11.44
Underground Excavation Contract Labor	Backhoe Trench		Normal Contract Labor Cost	14.84	11.44
Underground Excavation Contract Labor	Bore Cable		Normal Contract Labor Cost	225.77	179.6
Underground Excavation Contract Labor	Cut & Restore Asphalt		Normal Contract Labor Cost	14.84	15,26
Underground Excavation Contract Labor	Cut & Restore Concrete Cut & Restore Sod		Normal Contract Labor Cost Normal Contract Labor Cost	14.84	14
Underground Excavation Contract Labor Underground Excavation Contract Labor	Hand Dig Trench		Normal Contract Labor Cost Normal Contract Labor Cost	14.84	12.23
Underground Excavation Contract Labor Underground Excavation Contract Labor	Rocky Trench		Normal Contract Labor Cost Normal Contract Labor Cost	14.84	11.44
Underground Excavation Contract Labor	Trench & Backfill		Normal Contract Labor Cost	14.84 14.84	11,44 11,44
Underground Excavation Contract Labor	Backhoe Trench		Hardrock Contract Labor Cost	14.84	11, 44 11,44
Underground Excavation Contract Labor	Bore Cable		Hardrock Contract Labor Cost	14.64 225.77	179,6
Underground Excavation Contract Labor	Cut & Restore Asphalt		Hardrock Contract Labor Cost	14.84	15,26
Underground Excavation Contract Labor	Cut & Restore Concrete		Hardrock Contract Labor Cost	14.84	14
Underground Excavation Contract Labor	Cut & Restore Sod		Hardrock Contract Labor Cost	14.84	12.23
Underground Excavation Contract Labor	Hand Dig Trench		Hardrock Contract Labor Cost	14.84	11.44

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AT&T-WCom

BellSouth

Input Table	Element	Variable	Input	input
Underground Excavation Contract Labor	Rocky Trench	Hardrock Contract Labor Cost	14.84	11,44
Underground Excavation Contract Labor	Trench & Backfill	Hardrock Contract Labor Cost	14.84	11.44
Underground Excavation Contract Labor	Backhoe Trench	Water Contract Labor Cost	14.84	11,44
Underground Excavation Contract Labor	Bore Cable	Water Contract Labor Cost -	225.77	179.6
Underground Excavation Contract Labor	Cut & Restore Asphalt	Water Contract Labor Cost	14.84	15.26
Underground Excavation Contract Labor	Cut & Restore Concrete	Water Contract Labor Cost	14.84	14
Underground Excavation Contract Labor	Cut & Restore Sod	Water Contract Labor Cost	14.84	12.23
Underground Excavation Contract Labor	Hand Dig Trench	Water Contract Labor Cost	14.84	11.44
Underground Excavation Contract Labor	Rocky Trench	Water Contract Labor Cost	14.84	11.44
Underground Excavation Contract Labor	Trench & Backfill	Water Contract Labor Cost	14.84	11.44
Underground Rural Excavation Activity	Bore Cable	Normal Terrain: % of Activity	0.0267	0.0023
Underground Rural Excavation Activity	Trench & Backfill	Normal Terrain: % of Activity	0.64	0.6644
Underground Rural Excavation Activity	Backhoe Trench	SoftRock Terrain: % of Activity	0.45	0.22
Underground Rural Excavation Activity	Bore Cable	SoftRock Terrain: % of Activity	0.0367	0.0023
Underground Rural Excavation Activity	Hand Dig Trench	SoftRock Terrain: % of Activity SoftRock Terrain: % of Activity	0.0433	0.03
Underground Rural Excavation Activity	Rocky Trench Trench & Backfill	SoftRock Terrain: % of Activity	0.3367 0.05	0.6644
Underground Rural Excavation Activity Underground Rural Excavation Activity	Backhoe Trench	HardRock: % of Activity	0.3033	0.0044
Underground Rural Excavation Activity	Bore Cable	HardRock: % of Activity	0.0267	0.0023
Underground Rural Excavation Activity	Hand Dig Trench	HardRock: % of Activity	0.0433	0.03
Underground Rural Excavation Activity	Rocky Trench	HardRock: % of Activity	0.5433	0.00
Underground Rural Excavation Activity	Trench & Backfill	HardRock: % of Activity	0	0.6644
Underground Rural Excavation Activity	Backhoe Trench	Water: % of Activity	0.3033	0.22
Underground Rural Excavation Activity	Bore Cable	Water: % of Activity	0.0267	0.0023
Underground Rural Excavation Activity	Hand Dig Trench	Water: % of Activity	0.0433	0.03
Underground Rural Excavation Activity	Rocky Trench	Water: % of Activity	0.5433	0
Underground Rural Excavation Activity	Trench & Backfill	Water: % of Activity	0	0.6644
Underground Suburban Excavation Activity	Bore Cable	Normal Terrain: % of Activity	0,0575	0.0049
Underground Suburban Excavation Activity	Trench & Backfill	Normal Terrain: % of Activity	. 0.235	0.2876
Underground Suburban Excavation Activity	Backhoe Trench	SoftRock Terrain: % of Activity	0.195	0.2825
Underground Suburban Excavation Activity	Bore Cable	SoftRock Terrain: % of Activity	0.0575	0.0049
Underground Suburban Excavation Activity	Rocky Trench	SoftRock Terrain: % of Activity	0.235	0
Underground Suburban Excavation Activity	Trench & Backfill	SoftRock Terrain: % of Activity	0,0875	0.2876
Underground Suburban Excavation Activity	Backhoe Trench	HardRock: % of Activity	0.13	0.2825
Underground Suburban Excavation Activity	Bore Cable	HardRock: % of Activity	0.0575	0.0049
Underground Suburban Excavation Activity	Rocky Trench	HardRock: % of Activity	0.3875	0
Underground Suburban Excavation Activity	Trench & Backfill Backhoe Trench	HardRock: % of Activity	0	0.2876
Underground Suburban Excavation Activity Underground Suburban Excavation Activity	Bore Cable	Water: % of Activity Water: % of Activity	0.13 0.0575	0.2825 0.0049
Underground Suburban Excavation Activity	Rocky Trench	Water: % of Activity	0.3875	0.0049
Underground Suburban Excavation Activity	Trench & Backfill	Water: % of Activity	0.5075	0.2876
Underground Urban Excavation Activity	Bore Cable	Normal Terrain: % of Activity	0,125	0.0108
Underground Urban Excavation Activity	Trench & Backfill	Normal Terrain: % of Activity	0.04	0.1542
Underground Urban Excavation Activity	Backhoe Trench	SoftRock Terrain: % of Activity	0.15	0.175
Underground Urban Excavation Activity	Bore Cable	SoftRock Terrain: % of Activity	0.125	0.0108
Underground Urban Excavation Activity	Rocky Trench	SoftRock Terrain: % of Activity	0.055	0
Underground Urban Excavation Activity	Trench & Backfill	SoftRock Terrain: % of Activity	0.01	0.1542
Underground Urban Excavation Activity	Backhoe Trench	HardRock: % of Activity	0.09	0.175
Underground Urban Excavation Activity	Bore Cable	HardRock: % of Activity	0.125	0.0108
Underground Urban Excavation Activity	Rocky Trench	HardRock: % of Activity	0.125	0
Underground Urban Excavation Activity	Trench & Backfill	HardRock: % of Activity	0	0.1542
Underground Urban Excavation Activity	Backhoe Trench	Water: % of Activity	0.09	0.175
Underground Urban Excavation Activity	Bore Cable	Water: % of Activity	0.125	0.0108
Underground Urban Excavation Activity	Rocky Trench	Water: % of Activity	0.125	0
Underground Urban Excavation Activity	Trench & Backfill	Water: % of Activity	0	0.1542
Underground Sharing Underground Sharing	Backhoe Trench Bore Cable	Rural Shared Percent Assigned to Telephone Rural Shared Percent Assigned to Telephone	0.99	0.50
Underground Sharing	Cut & Restore Asphait	Rural Shared Percent Assigned to Telephone	0.99 0.99	0.50 0.50
Underground Sharing	Cut & Restore Concrete	Rural Shared Percent Assigned to Telephone	0.99	0.50
Underground Sharing	Cut & Restore Sod	Rural Shared Percent Assigned to Telephone	0.99	0.50
Underground Sharing	Hand Dig Trench	Rural Shared Percent Assigned to Telephone	0.99	0.50
Underground Sharing	Rocky Trench	Rural Shared Percent Assigned to Telephone	0.99	0.50
Underground Sharing	Trench & Backfill	Rural Shared Percent Assigned to Telephone	0.99	0.50
Underground Sharing	Backhoe Trench	Rural Shared Percent Assigned to Telephone	0.99	0.50
	Bore Cable	Suburb Shared Percent Assigned to Telephone	0.99	0.3300
Underground Sharing	Cut & Restore Asphalt	Suburb Shared Percent Assigned to Telephone	0.99	0.3300
Underground Sharing	Cut & Restore Concrete	Suburb Shared Percent Assigned to Telephone	0.99	0.3300
-	Cut & Restore Sod	Suburb Shared Percent Assigned to Telephone	0,99	0.3300
	Hand Dig Trench	Suburb Shared Percent Assigned to Telephone	0.99	0.3300
	Rocky Trench	Suburb Shared Percent Assigned to Telephone	0.99	0.3300
-	Trench & Backfill	Suburb Shared Percent Assigned to Telephone	0.99	0.3300
•	Backhoe Trench Bore Cable	Suburb Shared Percent Assigned to Telephone	0.99	0.3300
Chaciground Chaining	DOIS CADIO	Urban Shared Percent Assigned to Telephone	0.99	0.3300

FLORIDA DOCKET 990649-TP WITNESS: PITKIN EXHIBIT _____(BFP-7) PAGE 4 OF 6

		-	BellSouth	AT&T-WCom
Input Table	<u>Element</u>	<u>Variable</u>	Input	Input
Underground Sharing	Cut & Restore Asphalt	Urban Shared Percent Assigned to Telephone	0.99	0.3300
Underground Sharing	Cut & Restore Concrete	Urban Shared Percent Assigned to Telephone	0.99	0.3300
Underground Sharing	Cut & Restore Sod	Urban Shared Percent Assigned to Telephone Urban Shared Percent Assigned to Telephone	0.99	0.3300 0.3300
Underground Sharing Underground Sharing	Hand Dig Trench Rocky Trench	Urban Shared Percent Assigned to Telephone	0.99 0.99	0.3300
Underground Sharing	Trench & Backfill	Urban Shared Percent Assigned to Telephone	0.99	0.3300
Buried Excavation Contract Labor	Backhoe Trench	Softrock Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Bore Cable	Softrock Contract Labor Cost	23.14	14.05
Buried Excavation Contract Labor	Cut & Restore Asphalt	Softrock Contract Labor Cost	5.18	6.02
Buried Excavation Contract Labor	Cut & Restore Concrete	Softrock Contract Labor Cost	5.18	4.76
Buried Excavation Contract Labor	Cut & Restore Sod	Softrock Contract Labor Cost	5.18	2.99
Buried Excavation Contract Labor	Free Trench (i.e. Developer)	Softrock Contract Labor Cost	1.14	0.91
Buried Excavation Contract Labor Buried Excavation Contract Labor	Hand Dig Trench Plow	Softrock Contract Labor Cost Softrock Contract Labor Cost	5.18 5.18	2.20
Buried Excavation Contract Labor	Push Pipe & Pull Cable	Softrock Contract Labor Cost	6.01	0.80 17.06
Buried Excavation Contract Labor	Rocky Plow	Softrock Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Rocky Trench	Softrock Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Trench & Backfill	Softrock Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Backhoe Trench	Normal Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Bore Cable	Normal Contract Labor Cost	23.14	14.05
Buried Excavation Contract Labor	Cut & Restore Asphalt	Normal Contract Labor Cost	5.18	6.02
Buried Excavation Contract Labor	Cut & Restore Concrete	Normal Contract Labor Cost	5.18	4.76
Buried Excavation Contract Labor Buried Excavation Contract Labor	Cut & Restore Sod	Normal Contract Labor Cost Normal Contract Labor Cost	5.18	2.99
Buried Excavation Contract Labor Buried Excavation Contract Labor	Free Trench (i.e. Developer) Hand Dig Trench	Normal Contract Labor Cost	1.14 5.18	0.91 2.20
Buried Excavation Contract Labor	Plow	Normal Contract Labor Cost	5.18	0,80
Buried Excavation Contract Labor	Push Pipe & Pull Cable	Normal Contract Labor Cost	6.01	17.06
Buried Excavation Contract Labor	Rocky Plow	Normal Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Rocky Trench	Normal Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Trench & Backfill	Normal Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Backhoe Trench	Hardrock Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Bore Cable	Hardrock Contract Labor Cost	23.14	14.05
Buried Excavation Contract Labor Buried Excavation Contract Labor	Cut & Restore Asphalt Cut & Restore Concrete	Hardrock Contract Labor Cost Hardrock Contract Labor Cost	5.18	6.02
Buried Excavation Contract Labor	Cut & Restore Concrete Cut & Restore Sod	Hardrock Contract Labor Cost	5.18 5.18	4.76 2.99
Buried Excavation Contract Labor	Free Trench (i.e. Developer)	Hardrock Contract Labor Cost	1.14	0.91
Buried Excavation Contract Labor	Hand Dig Trench	Hardrock Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Plow	Hardrock Contract Labor Cost	5.18	0.80
Buried Excavation Contract Labor	Push Pipe & Pull Cable	Hardrock Contract Labor Cost	6.01	17.06
Buried Excavation Contract Labor	Rocky Plow	Hardrock Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Rocky Trench	Hardrock Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor Buried Excavation Contract Labor	Trench & Backfill Backhoe Trench	Hardrock Contract Labor Cost Water Contract Labor Cost	5.18 5.18	2.20 2.20
Buried Excavation Contract Labor	Bore Cable	Water Contract Labor Cost	23.14	14.05
Buried Excavation Contract Labor	Cut & Restore Asphalt	Water Contract Labor Cost	5.18	6.02
Buried Excavation Contract Labor	Cut & Restore Concrete	Water Contract Labor Cost	5.18	4.76
Buried Excavation Contract Labor	Cut & Restore Sod	Water Contract Labor Cost	5.18	2.99
Buried Excavation Contract Labor	Free Trench (i.e. Developer)	Water Contract Labor Cost	1.14	0.91
Buried Excavation Contract Labor	Hand Dig Trench	Water Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor Buried Excavation Contract Labor	Plow Push Pipe & Pull Cable	Water Contract Labor Cost Water Contract Labor Cost	5.18	0.80
Burled Excavation Contract Labor	Rocky Plow	Water Contract Labor Cost Water Contract Labor Cost	6.01 5.18	17.06 2.20
Buried Excavation Contract Labor	Rocky Trench	Water Contract Labor Cost	5.18	2.20
Buried Excavation Contract Labor	Trench & Backfill	Water Contract Labor Cost	5.18	2.20
Buried Rural Excavation Activity	Bore Cable	Normal: % of Activity	0.01	0,001
Buried Rural Excavation Activity	Trench & Backfill	Normal: % of Activity	0.067	0.08
Buried Rural Excavation Activity	Backhoe Trench	SoftRock: % of Activity	0.08	0.0367
Buried Rural Excavation Activity	Bore Cable	SoftRock: % of Activity	0.01	0.001
Buried Rural Excavation Activity	Hand Dig Trench	SoftRock: % of Activity	0.0367	0.02
Buried Rural Excavation Activity Buried Rural Excavation Activity	Plow Push Pipe & Pull Cable	SoftRock: % of Activity SoftRock: % of Activity	0.33	0.78
Burled Rural Excavation Activity	Rocky Plow	SoftRock: % of Activity	0.01 0.3067	0.00 33 0
Buried Rural Excavation Activity	Rocky Trench	SoftRock: % of Activity	0.06	o o
Buried Rural Excavation Activity	Trench & Backfill	SoftRock: % of Activity	0.0833	0.08
Buried Rural Excavation Activity	Backhoe Trench	HardRock: % of Activity	0.0267	0.0367
Buried Rural Excavation Activity	Bore Cable	HardRock: % of Activity	0.01	0.001
Buried Rural Excavation Activity	Hand Dig Trench	HardRock: % of Activity	0.0233	0.02
Buried Rural Excavation Activity	Plow	HardRock: % of Activity	0	0.78
Buried Rural Excavation Activity Buried Rural Excavation Activity	Push Pipe & Pull Cable Rocky Plow	HardRock: % of Activity HardRock: % of Activity	0.01 0.4933	0.0033
Buried Rural Excavation Activity	Rocky Flow Rocky Trench	HardRock: % of Activity	0.4933	0
Buried Rural Excavation Activity	Trench & Backfill	HardRock: % of Activity	0.06	0.08
Burled Rural Excavation Activity	Backhoe Trench	Water: % of Activity	0.0267	0.0367



FLORIDA DOCKET 990649-TP WITNESS: PITKIN EXHIBIT (BFP-7) PAGE 5 OF 6

			BellSouth	AT&T-WCom
Input Table	Element	Variable	Input	input
Buried Rural Excavation Activity	Bore Cable	Water: % of Activity	0.01	0.001
Buried Rural Excavation Activity	Hand Dig Trench Plow	Water: % of Activity Water: % of Activity	0.0233 0	0.02 0.78
Buried Rural Excavation Activity Buried Rural Excavation Activity	Push Pipe & Pull Cable	Water: % of Activity	0.01	0.0033
Buried Rural Excavation Activity	Rocky Plow	Water: % of Activity	0.4933	0.0000
Buried Rural Excavation Activity	Rocky Trench	Water: % of Activity	0.2933	ō
Buried Rural Excavation Activity	Trench & Backfill	Water: % of Activity	0.06	0.08
Buried Suburban Excavation Activity	Bore Cable	Normal: % of Activity	0.0575	0.0049
Burled Suburban Excavation Activity	Trench & Backfill	Normal: % of Activity	0.1925	0.2451
Buried Suburban Excavation Activity	Backhoe Trench	SoftRock: % of Activity	0.1125	0.13
Buried Suburban Excavation Activity Buried Suburban Excavation Activity	Bore Cable Plow	SoftRock: % of Activity SoftRock: % of Activity	0.0575 0.0275	0.0049 0.1575
Buried Suburban Excavation Activity	Rocky Plow	SoftRock: % of Activity	0.0275	0.1575
Buried Suburban Excavation Activity	Rocky Trench	SoftRock: % of Activity	0.0473	0
Buried Suburban Excavation Activity	Trench & Backfill	SoftRock: % of Activity	0.0925	0.2451
Burled Suburban Excavation Activity	Backhoe Trench	HardRock: % of Activity	0.12	0.13
Buried Suburban Excavation Activity	Bore Cable	HardRock: % of Activity	0.0575	0.0049
Buried Suburban Excavation Activity	Plow	HardRock: % of Activity	0	0.1575
Burled Suburban Excavation Activity	, Rocky Plow	HardRock: % of Activity	0.0475	0
Buried Suburban Excavation Activity	Rocky Trench	HardRock: % of Activity	0.3125	0
Buried Suburban Excavation Activity	Trench & Backfill	HardRock: % of Activity	. 0	0.2451
Buried Suburban Excavation Activity Buried Suburban Excavation Activity	Backhoe Trench Bore Cable	Water: % of Activity Water: % of Activity	0.12 0.0575	0.13 0.0049
Burled Suburban Excavation Activity	Plow	Water: % of Activity	0.0575	0.0049
Buried Suburban Excavation Activity	Rocky Plow	Water: % of Activity	0.0475	0.1373
Buried Suburban Excavation Activity	Rocky Trench	Water: % of Activity	0.3125	ő
Buried Suburban Excavation Activity	Trench & Backfill	Water: % of Activity	0	0.2451
Buried Urban Excavation Activity	Bore Cable	Normal: % of Activity	0.125	0.0108
Buried Urban Excavation Activity	Trench & Backfill	Normal: % of Activity	0.04	0.1542
Burled Urban Excavation Activity	Backhoe Trench	SoftRock: % of Activity	0.15	0.175
Buried Urban Excavation Activity	Bore Cable	SoftRock: % of Activity	0.125	0.0108
Burled Urban Excavation Activity	Rocky Trench	SoftRock: % of Activity	0.055	0
Buried Urban Excavation Activity	Trench & Backfill Backhoe Trench	SoftRock: % of Activity HardRock: % of Activity	0.01	0.1542
Buried Urban Excavation Activity Buried Urban Excavation Activity	Bore Cable	HardRock: % of Activity	0.09 0.125	0.175 0.0108
Buried Urban Excavation Activity	Rocky Trench	HardRock: % of Activity	0.125	0.0100
Buried Urban Excavation Activity	Trench & Backfill	HardRock: % of Activity	0	0.1542
Buried Urban Excavation Activity	Backhoe Trench	Water: % of Activity	0.09	0.175
Buried Urban Excavation Activity	Bore Cable	Water: % of Activity	0.125	0.0108
Buried Urban Excavation Activity	Rocky Trench	Water: % of Activity	0.125	0
Burled Urban Excavation Activity	Trench & Backfill	Water: % of Activity	0	0.1542
Buried Sharing	Backhoe Trench	Rural: % Telco	0.96	0.5
Buried Sharing	Bore Cable	Rural: % Telco Rural: % Telco	0.96	0.5
Buried Sharing Buried Sharing	Cut & Restore Asphalt Cut & Restore Concrete	Rural: % Telco	0.96 0.96	0.5 0.5
Buried Sharing	Cut & Restore Sod	Rural: % Telco	0.96	0.5
Buried Sharing	-Free Trench (i.e. Developer)	Rural: % Telco	0.96	. 0.5
Buried Sharing	Hand Dig Trench	Rural: % Telco	0.96	0.5
Buried Sharing	Plow	Rural: % Telco	0.96	0.5
Buried Sharing	Push Pipe & Pull Cable	Rural: % Telco	0.96	0.5
Buried Sharing	Rocky Plow	Rural: % Telco	0.96	0.5
Buried Sharing	Rocky Trench	Rural: % Telco	0.96	0.5
Buried Sharing Buried Sharing	Trench & Backfill Backhoe Trench	Rural: % Telco Suburban: % Telco	0.96	0.5
Buried Sharing Buried Sharing	Bore Cable	Suburban: % Telco	0.96 0.96	0.33 0.33
Buried Sharing	Cut & Restore Asphalt	Suburban: % Telco	0.96	0.33
Buried Sharing	Cut & Restore Concrete	Suburban: % Telco	0.96	0.33
Buried Sharing	Cut & Restore Sod	Suburban: % Telco	0.96	0.33
Buried Sharing	Free Trench (i.e. Developer)	Suburban: % Telco	0.96	0.33
Burled Sharing	Hand Dig Trench	Suburban: % Telco	0.96	0.33
Buried Sharing	Plow	Suburban: % Telco	0.96	0.33
Buried Sharing	Push Pipe & Pull Cable	Suburban: % Telco	0.96	0.33
Buried Sharing	Rocky Plow Rocky Trench	Suburban: % Telco	0.96	0.33
Buried Sharing Buried Sharing	Trench & Backfill	Suburban: % Telco Suburban: % Telco	0.96	0.33
Burled Sharing	Backhoe Trench	Urban: % Telco	0.96 0.96	0.33 0.33
Buried Sharing	Bore Cable	Urban: % Telco	0.96	0.33
Buried Sharing	Cut & Restore Asphalt	Urban: % Telco	0.96	0,33
Buried Sharing	Cut & Restore Concrete	Urban: % Telco	0.96	0.33
Buried Sharing	Cut & Restore Sod	Urban: % Telco	0.96	0.33
Buried Sharing	Free Trench (i.e. Developer)	Urban: % Telco	0.96	0.33
Burled Sharing	Hand Dig Trench	Urban: % Telco	0.96	0.33
Buried Sharing	Plow	Urban: % Telco	0.96	0.33

FLORIDA DOCKET 990649-TP WITNESS: PITKIN EXHIBIT _____(BFP-7) PAGE 6 OF 6

			BellSouth	AT&T-WCom
Input Table	<u>Element</u>	<u>Variable</u>	Input	<u>Input</u>
Buried Sharing	Push Pipe & Pull Cable	Urban: % Telco	0.96	0.33
Buried Sharing	Rocky Plow	Urban: % Telco	0.96	0.33
Buried Sharing	Rocky Trench	Urban: % Telco	0.96	0.33
Buried Sharing	Trench & Backfill	Urban: % Telco -	0.96	0.33
Underground Contract Labor	Manholes 1	Softrock Contract Labor Cost	3235.16	1463.36
Underground Contract Labor	Manholes 2	Softrock Contract Labor Cost	3235.16	731.68
Underground Contract Labor	Manholes 3	Softrock Contract Labor Cost	10064.95	731.68
Underground Contract Labor	Manholes 5	Softrock Contract Labor Cost	31575.1288	2016.04
Underground Contract Labor	Manholes 1	Normal Contract Labor Cost	3235.16	1463.36
Underground Contract Labor	Manholes 2	Normal Contract Labor Cost	3235.16	731.68
Underground Contract Labor	Manholes 3	Normal Contract Labor Cost	10064,95	731.68
Underground Contract Labor	Manholes 5	Normal Contract Labor Cost	31575.1288	2016.04
Underground Contract Labor	Manholes 1	Hardrock Contract Labor Cost	3235,16	1463.36
Underground Contract Labor	Manholes 2	Hardrock Contract Labor Cost	3235.16	731.68
Underground Contract Labor	Manholes 3	Hardrock Contract Labor Cost	10064,95	731.68
Underground Contract Labor	Manholes 5	Hardrock Contract Labor Cost	31575.1288	2016.04
Underground Contract Labor	Manholes 1	Water Contract Labor Cost	3235.16	1463.36
Underground Contract Labor	Manholes 2	Water Contract Labor Cost	3235,16	731.68
Underground Contract Labor	Manholes 3	Water Contract Labor Cost	10064.95	731.68
Underground Contract Labor	Manholes 5	Water Contract Labor Cost	31575.1288	2016.04
Facility Sharing (Plant Sharing)	Rural	Aerial Facility Sharing Percentage	0.25	0.75
Facility Sharing (Plant Sharing)	Suburban	Aerial Facility Sharing Percentage	0.25	0.75
Facility Sharing (Plant Sharing)	Urban	Aerial Facility Sharing Percentage	0.25	0.75
Facility Sharing (Plant Sharing)	Rural	Buried Facility Sharing Percentage	0.25	0.75
Facility Sharing (Plant Sharing)	Suburban	Buried Facility Sharing Percentage	0.25	0.75
Facility Sharing (Plant Sharing)	Urban	Buried Facility Sharing Percentage	0.25	0.75
Facility Sharing (Plant Sharing)	Rural	UG Facility Sharing Percentage	0.25	0.75
Facility Sharing (Plant Sharing)	Suburban	UG Facility Sharing Percentage	0.25	0.75
Facility Sharing (Plant Sharing)	Urban	UG Facility Sharing Percentage	, 0.25	0.75
Cost Calculator	In-Plant Factor	DLC Plug-in Equipment	1.1682	1.00239
Cost Calculator	In-Plant Factor	DLC Hardwire Equipment	2.5184	1.168
Cost Calculator	Inflation	FRC 22	1.0822	1,009727
Cost Calculator	Inflation	FRC 45	1.0715	0.978072
Cost Calculator	Inflation	FRC 377	1.0201	0.927619
Cost Calculator	Inflation	FRC 257	0.98	1.010582
		3		

Copper Labor & EF&I Costing - Underground 24 Gauge

					BellSouth	
Line No.	Description	Formula	Raje 1	25		
1	Labor rate (Splicing and Placing)	BSTLM Input	\$49.05			
2	Placing Labor per 100 ft.	BSTLM Input		2.50	2.50	2.50
33	Total Placing Cost per Foot	Ln1 * Ln2 / 100		\$1.23	\$1.23	\$1.23
4	Splicing Set-up Hours	BSTLM Input		0	0	0
5	Splicing Travel Hours	BSTLM Input		0	0	0
6	Splicing Labor per 100 pairs	BSTLM Input		5.32	5.32	5.32
7	Splicing Labor Hours per 100 pairs for Stub	BSTLM Input	·	5.32	5.32	5.32
8	Splicing Hours	Ln4 + Ln5 + Cable Size / 100* (Ln6 + Ln7)		2.66	127.68	446.88
9	Splicing Cost	Ln1 * Ln 8		\$130.47	\$6,262.70	\$21,919.46
10	Assumption of Splicing per X Feet	Assumption	600			
11	Splicing Cost per X Feet	Ln9 / Ln 10		\$0.22	\$10.44	\$36.53
12	Material Cost Per Foot	BSTLM Input		\$0.13	\$ 6.45	\$22.26
13	Material Loading	Rate * Ln12	165.08%	\$0.21	\$10.65	\$36.75
14	Inflation	Rate * Ln12 +Sum (Ln15 : L18) * Rate * Ln12	9.26%	\$0.03	\$1.45	\$5.00
15	Tax Rate	Rate * Ln12	6.00%	\$0.01	\$0.39	\$1.34
16	Misc. Material Loading*	Rate * Ln12	98.90%	\$ 0.13	\$6.38	\$22.01
17	Supply Expense Loading	Rate * Ln12	10.55%	\$0.01	\$0.68	\$2.35
18	Other Loading	Ln18a + Ln 18b + Ln18c	27.18%	\$0.04	\$ 1.75	\$6.05
18a	Plt Labor - Indirect Salary, Benefits Other	Rate * Ln12	23.87%	\$0.03	\$1.54	\$5.31
18b	Right of Way Items	: Rate * Ln12	0.16%	\$0.00	\$0.01	\$0.04
18c	Interest During Construction Items	Rate * Ln12	3.15%	\$0.00	\$0.20	\$0.70
19	Placing Cost	Ln3		\$1.23	\$1.23	\$1.23
20	Splicing Cost	Ln11		\$0.22	\$10.44	\$36.53
21	Material, Material Loading and Labor	Ln 12 + Ln13 + Ln 19 + Ln20		\$1.79	\$28.76	\$96.77
22	Engineering Loading	Rate * Ln21	27.07%	\$0.48	\$7.79	\$26.19
23	Total Loading	Ln13 + Ln19 + Ln20 + Ln22		\$2.14	\$30.10	\$100.70
24	Total Cable Cost per Foot	Ln12 + Ln23		\$2.27	\$36.55	\$ 122.96

	Section 181 CHRISTON SHOWS	r&JeWCo	(coloredge teldage (webster)
Rate	The same of the sa	Cable Size	AMERICAN PROPERTY AND ADDRESS OF THE PARTY O
	MWZ95WW	2005	####ZGO
\$49.05			
	0.58	0.58	0.58
	\$0.29	\$0.29	\$0.29
	2.00	2.00	2.00
	0.25	0.25	0.25
	0.40	0.40	0.40
	<u>.</u>	-	
	2.35	7.05	19.05
	\$115.27	\$345.80	\$934.40
600			
	\$0.19	\$0.58	\$ 1.56
	\$0.13	\$6.45	\$22.26
	\$0.12	\$1.37	\$4.51
-1.04%	\$0.00	-\$0.08	-\$0.28
6.00%	\$0.01	\$0.39	\$1.34
	\$0.10	\$0.17	\$0.37
10.55%	\$0.01	\$0.68	\$2.35
3.31%	\$0.00	\$0.21	\$0.74
0.00%	\$0.00	\$0.00	\$0.00
0.16%	\$0.00	\$0.01	\$0.04
3.15%	\$0.00	\$0.20	\$0.70
	\$0.29	\$0.29	\$0.29
	\$0.19	\$0.58	\$1.56
	\$0.73	\$8.68	\$28.61
10.00%	\$0.07	\$0.87	\$2.86
10.00 /0	\$0.67	\$3.10	\$9.21
	\$0.80	\$9.55	\$31.47
	\$0.60	\$9.00	401.47

DECLASSIFIED

\$5.28

\$15.16

FCC SynMod

\$40.36

^{*} Miscellaneous material for AT&T WorldCom is 20% of contract labor

#AT&T-WComma

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0.58 \$0.29 2.00 0.25 0.10 16.65 \$816.68

> \$1.36 \$2.77 \$0.91 \$0.13 \$0.17 \$0.33 \$0.19 \$0.10 \$0.00 \$0.00 \$0.09 \$0.29 \$1.36 \$5.33 \$0.53 \$3.09 \$5.86

Fiber Labor & EF&I Costing - Underground

			1		Cable Size		,		Gable Size
Line No.	Pescription:	Torroula	Rate S	# 2A e	72.5	¥ 144 T	響Rate	24	123
1	Labor rate (Splicing and Placing)	BSTLM Input	\$49.05				\$49.05		
2	Placing Labor per 100 ft.	BSTLM Input		1.50	1.50	1.50		0.58	0.58
3	Total Placing Cost per Foot	Ln1 * Ln2 / 100		\$0.74	\$0.74	\$0.74		\$0.29	\$0.29
4	Splicing Set-up Hours	BSTLM Input		0	0	0		2.00	2.00
5	Splicing Travel Hours	BSTLM Input		0	0	0	ļ	0.25	0.25
6	Splicing Labor per strand	BSTLM Input		0.10	0.10	0.10		0.10	0.10
7	Splicing Hours	Ln4 + Ln5 + Cable Size / 100* Ln6		2.40	7.20	14.40		4.65	9.45
8	Splicing Cost	Ln1 * Ln 7		\$117.72	\$353.16	\$706.32		\$228.08	\$463.52
9	Assumption of Splicing per X Feet	Assumption	600				600		
10	Splicing Cost per X Feet	Ln8 / Ln 9	·	\$0.20	\$0.59	\$1.18		\$0.38	\$0.77
11	Material Cost Per Foot	BSTLM Input		\$0.72	\$ 1.58	\$2.77		\$0.72	\$1.58
12	Material Loading	Rate * Ln11	38.55%	\$0.28	\$0.61	\$1.07		\$0.28	\$0.54
13	Inflation	Rate * Ln11 +Sum (Ln14 : L17) * Rate * Ln11	0.00%	\$0.00	\$0.00	\$0.00	4.17%	\$0.03	\$0.08
14	Tax Rate	Rate * Ln11	6.00%	\$0.04	\$0.09	\$0.17	6.00%	\$0.04	\$0.09
15	Misc. Material Loading*	Rate * Ln11	17.98%	\$0.13	\$0.28	\$0.50		\$0.13	\$0.21
16	Supply Expense Loading	Rate * Ln11	6.75%	\$0.05	\$0.11	\$0.19	6.75%	\$0.05	\$0.11
17	Other Loading	Ln17a + Ln 17b + Ln17c	7.82%	\$0.06	\$0.12	\$0.22	3.45%	\$0.02	\$0.05
17a	Plt Labor - Indirect Salary, Benefits Other	Rate * Ln11	4.36%	\$0.03	\$0.07	\$0.12	0.00%	\$0.00	\$0.00
17b	Right of Way Items	Rate * Ln11	0.06%	\$0.00	\$0.00	\$0.00	0.06%	\$0.00	\$0.00
17c	Interest During Construction Items	Rate * Ln11	3.39%	\$0.02	\$0.05	\$0.09	3.39%	\$0.02	\$0.05
18	Placing Cost	Ln3		\$0.74	\$0.74	\$0.74	L	\$0.29	\$0.29
19	Splicing Cost	Ln10		\$0.20	\$0.59	\$1.18		\$0.38	\$0.77
20	Material, Material Loading and Labor	Ln 11 + Ln12 + Ln 18 + Ln19		\$1.93	\$3.51	\$5.75		\$1.67	\$3.18
21	Engineering Loading	Rate * Ln20	35.72%	\$0.69	\$1.26	\$2.05	10.00%	\$0.17	\$0.32
22	Total Loading	Ln12 + Ln18 + Ln19 + Ln21		\$1.90	\$3.19	\$5.04		\$1.12	\$1.92
23	Total Cable Cost per Foot	Ln11 + Ln22		\$2.62	\$4.77	\$7.81		\$1.84	\$3.50

^{*} Miscellaneous material for AT&T WorldCom is 20% of contract labor



\$3.40

\$4.49 \$6.14

FCC SynMod

BellSouth

Pole Costing Comparison

			200			BellSou	hazea	Marie E		FOR CO.		AT8				1.07.14
Line No	Description .	Formula .	Rate	100	Poles	Anche	ir ac	Guy	MZJ	otal 🥦	Rate	*Pole	€A	viction	Guy	. Total
1	Material Cost	BSTLM Input		\$	300.16				\$	300.16		\$ 239.31				\$ 239.3
2	Span Length	BSTLM Input			1,200							1,200				
3	Material Cost w/ Extra Pole per Ft	round(Ln1 * ((Ln2/Ln16+1)/(Ln2/Ln16)),0)		\$	330.18				\$	330.18		\$ 293.55				\$ 293.5
4	Material Loading	Rate * Ln3	56.87%	\$	187.78				\$	187.78		\$ 95.54				\$ 95.54
5	Inflation	Rate * Ln3 +Sum (Ln6 : L9) * Rate * Ln3	7.68%	\$	36.96				\$	36.96	3.99%	\$ 13.81				\$ 13.8
6	Tax Rate	Rate * Ln3	6.00%	\$	19.81				\$	19.81	6.00%	\$ 17.61	ļ			\$ 17.6
7	Misc. Material Loading*	Rate * Ln3	22.44%	\$	74.10				\$	74.10		\$ 29.54	<u></u>			\$ 29.5
8	Supply Expense Loading	Rate * Ln3	1.08%	\$	3.57				\$	3.57	1.08%	\$ 3.17			<u></u>	\$ 3.1
9	Other Loading	Ln9a + Ln9b + Ln9c	16.16%	\$	53.35				\$	53.35	10.70%	\$ 31.40				\$ 31.4
9a	Plt Labor - Indirect Salary, Benefits Other	Rate * Ln3	5.46%	\$	18.03				\$	18.03	0.00%	\$	L			\$ -
9b	Right of Way Items	Rate * Ln3	9.96%	\$	32.90				\$	32.90	9.96%	\$ 29.25				\$ 29.2
9c	Interest During Construction Items	Rate * Ln3	0.73%	\$	2.42	,			\$	2.42	0.73%	\$ 2.15	ļ			\$ 2.1
10	Placing Hours	BSTLM Input		<u> </u>				0.75							0	
11	Placing Cost	Rate * Ln10	\$ 49.05				\$ 3	36.79	\$	36.79	\$ 49.05				\$ -	\$ -
12	Contract Labor Cost**	BSTLM Input		\$	233.19	\$ 99.	71					\$ 147.69	\$	95.39		
13	Total Labor Cost	Ln11 + Ln12		\$	233.19	\$ 99.	71 \$ 3	36.79	\$	369.69		\$ 147.69	\$	95.39	\$ -	\$ 243.0
14	Engineering Loading	Rate* (Ln3 + Ln4 + Ln13)	27.07%	\$	203.34	\$ 26.	9 \$	9.96	\$	240.29	10.00%	\$ 53.68	\$	9.54		\$ 63.2
15	Total Cost	Ln3 + Ln4 + Ln13 + Ln14		\$	954.49	\$ 126.	70 \$ 4	46.75	\$ <u>1,</u>	127.93	<u>.</u>	\$ 590.46	\$	104.93		\$ 695.3
16	Spacing	BSTLM Input			120		00	500				184		600	600	
17	Cost per foot	Ln15 / Ln16		\$	7.95	\$ 0.	25 \$	0.09	\$	8.30		\$ 3.21	\$	0.17	\$ -	\$ 3.3

3.181618248

* Miscellaneous material for AT&T WorldCom is 20% of contract labor



^{**} The contract labor cost for Anchors for AT&T- WorldCom includes a 20% loading on inflation. The calculation is: \$79.49 * 1.2 = \$95.39

DOCKET 990649-TP

WITNESS: PITKIN

EXHIBIT ____(BFP- 8-D)

PAGE 1 OF 2

Buried EF&I Costing Comparison

मिक्रिक (१७)	©escription.	निधुनागुर्धिः
1	Contract Placing Per Foot	See Buried Excavation Wksht
2	Engineering Loading	Rate * Ln1
3	EF&I Cost per Foot	Ln1 + Ln2

BellŚouth								
Rate Rural: Suburb Urban								
					2047			
	\$_	5.37	\$	6.25	\$	7.43		
27.07%	\$	1.45	\$	0.27	\$	0.27		
	\$	6.82	\$	6.52	\$	7.70		

AT&T/WorldGom									
ikaje	ī	erel	S	onuci.	U	riosin)			
	\$	1.35	\$	3.56	\$	4.09			
10.00%	\$	0.14	\$	0.36	\$	0.41			
	\$	1.49	\$	3.91	\$	4.50			

		Synthe Ageals:	Model ^a Urban
9			
1			
0	\$	0.77	\$ 11.93

*Values for Synthesis Model are for Normal Terrain

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CONTAINS BELLSOUTH PROPRIETARY INFORMATION

WTINESS : PITKIN EXHIBIT _____(BFP-8-E) PAGE 1 OF 2

Conduit Costing Comparison

Engineering, Furnish and Install

Line No.	Description	Formula
1	Contract Placing Per Foot	See Conduit Contract Placing Wksht
2	Engineering Loading	Rate * Ln1
3	EF&I Cost per Foot	Ln1 + Ln2

BellSouth										
	Pensity/4010s									
Rate		Rural	S	uburb		Jrban				
	\$	20.47	\$	26.97	\$	41.21				
27.07%	\$	5.54	\$	7.30	\$	11.16				
	\$	26.02	\$	34.27	\$	52.36				

)en	sity Zor	e	
Rate	Kura	S	uburb	Q	Jrban :
"					
	\$ 12.01	\$	13.23	\$	15.01
10.00%	\$ 1.20	\$	1.32	\$	1.50
	\$ 13.22	\$	14.56	\$	16.51

 	1,86	\$	42.59	•
12 j	Rural	数	Jrban	
S	ynthes	is N	lodel?	

Material

Eine No.	Description	. Готив.
4	Material Cost Per Foot	BSTLM Input
5	Engineering Loading	Rate * Ln4
6	Cost Per Foot	Ln4+ Ln5

BellSouth												
Density.Zone												
Rate	S.F	Rurali Suburb Urban										
	\$	2.77	\$	2.77	\$	2.77						
	Φ	2.11	Φ	2.11	a.	2.77						
27.07%	\$	0.75	\$	0.75	\$	0.75						
	•	2.52	ø			2.52						
	\$	3.52	\$	3.52	\$	3.52						

At&t/World©om Density⊠one										
Rate	R	ural	2000	iburb	de serie	rban				
	\$	0.82	\$	0.82	\$	0.82				
10.00%	. \$	0.08	\$	0.08	\$	0.08				
	\$	0.90	\$	0.90	\$	0.90				

Areates Produce and	F	yminės virai	de la constant	orel rban
	\$	0.77	\$	0.77

^{*}Values for Synthesis Model are for Normal Terrain

Manhole Costing Comparison

Line No:	Description	4Formula -	Fain		BellSouth		a de la composição de l	Marke.	inderes i		AT&T/WorldCo	űi <u> </u>			ynthesis Mode	ii.
1	Contract Placing Per Manhole*	BSTLM Input		\$ 3,235.16	\$ 3,235.16	\$ 10,064.95	\$ 31,575.13			\$ 1,463.36	\$ 1,463.36		\$ 4,032.08			
. 2	Engineering Loading	Rate * Ln1	27.07%	\$ 875.76	\$ 875.76	\$ 2,724.58	\$ 8,547.39	istini La 1	10.00%	\$ 146.34	\$ 146.34	\$ 146.34	\$ 403.21			
. 3	Total EF&I	Ln1 + Ln2		\$ 4,110.92	\$ 4,110.92	\$ 12,789.53	\$ 40,122.52			\$ 1,609.70	\$ 1,609.70	\$ 1,609.70	\$ 4,435.29	\$ 1,436. <u>50</u>	\$ 4,472.47	\$ 5,176.00
4	Spacing	BSTLM Input	625						625							
5	Cost per Foot	Ln3/Ln4		\$ 6.58	\$ 6.58	\$ 20.46	\$ 64.20			\$ 2.58	\$ 2.58	\$ 2.58	\$ 7.10			

^{*}Note: AT&T/WorldCom contract placing per manhole has a 50% sharing factor applied prior to the BSTLM Model run for manhole sizes 2, 3, and 5.

FLORIDA DOCKET 990649-TP WITNESS: PITKIN EXHIBIT _____(BFP-9) PAGE 1 OF 1

Sharing Correction for Buried Structure An Example of Rural Zone, Normal Terrain, Backhoe Trench

				BellSouth	AT&T/WorldCom.
Line No.	Description	* Formulas	Rate Avy	with Error	Corrected (
1	Normal Terrain Contract Labor Cost Per Installed Foot	BSTLM Input		\$ 2.20	\$ 2.20
2	Adjusted Normal Terrain Cost	Rate * Ln1	100.00%	\$ 2.20	\$ 2.20
3	Shared Percent Assigned to Telephone For URBAN	BSTLM Input		33%	
4	Shared Percent Assigned to Telephone For RURAL	BSTLM Input			50%
5	Shared Cost Per Foot	Sharing * Ln2		\$ 0.73	\$ 1.10
6	% of Activity	Rate * Ln5	4.00%	\$ 0.03	\$ 0.04
7	Inspectors & Contract Admin	BSTLM Input		\$ -	\$ -
8	Weighted Cost Per Installed Foot for RURAL Backhoe Trench	Ln6 + Ln7		\$ 0.03	\$ 0.04
9	Understatement			\$ (0.01))