1		<b>BELLSOUTH TELECOMMUNICATIONS, INC.</b>
2		BEFORE THE
3		FLORIDA PUBLIC SERVICE COMMISSION
4		<b>DOCKET NO. 030851-TP</b>
5		DIRECT TESTIMONY OF
6		DR. CHRISTOPHER JON PLEATSIKAS
7		
8	Q.	PLEASE STATE YOUR NAME AND POSITION.
9		
10	A.	My name is Christopher Jon Pleatsikas. I am a Principal at LECG, Inc. My business
11		address is 2000 Powell Street, Suite 600, Emeryville, California 94608.
12		
13	Q.	PLEASE DESCRIBE LECG.
14		
15	A.	LECG is an economics and finance consulting firm that provides economic expertise in
16		litigation, regulatory proceedings, and business strategy. Our firm comprises more than
17		550 economists from academe and business, and has 25 offices in six countries.
18		LECG's practice areas include antitrust analysis, intellectual property, and securities
19		litigation, in addition to specialties in the telecommunications, gas, electric, and health
20		care industries.
21		
22	Q.	PLEASE DESCRIBE YOUR PROFESSIONAL QUALIFICATIONS.
23		
24	А.	I have a B.A. from the University of Pennsylvania, as well as an M.S. in Natural
25		Resources from the University of Vermont and an M.A. and a Ph.D. in Regional
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1 Economic Analysis from the University of Pennsylvania. I have taught economics at 2 both the University of Pennsylvania and the University of Maryland. My particular 3 areas of expertise are industrial organization, competition policy, and microeconomics. I have extensive experience, both in the U.S. and abroad, in damages analysis, antitrust 4 5 litigation, and in other litigation and strategic consulting assignments concerning a 6 number of industries including telecommunications and a wide variety of other network industries. I have testified and submitted testimony before a number of courts and 7 8 administrative agencies both in the U.S. and abroad. 9 10 Prior to joining LECG I was a Principal at Putnam Hayes & Bartlett. I have also been a 11 Manager in the Economic Analysis Unit at Price Waterhouse. I have authored and co-12 authored a number of papers. My most recent papers include a book chapter and a 13 journal article on analyzing market definition and market power issues in high 14 technology industries and a journal article comparing the merger guidelines in the 15 United States, Australia and New Zealand. My professional qualifications are detailed 16 in my curriculum vitae, which is submitted as Pleatsikas Exhibit No. CJP-1. 17 18 WHAT IS THE PURPOSE OF YOUR TESTIMONY? Q. 19 20 Section 51.319(d)(2)(i) of the Rules promulgated by the Federal Communications A. 21 Commission ("FCC") in connection with its Triennial Review Order ("TRO") requires 22 commissions to define the "relevant geographic area" that they will use as their 23 geographic unit of analysis in determining whether competitive local exchange carriers 24 ("CLECs") are impaired without unbundled access to an incumbent local exchange 25 carrier's ("ILEC's") local circuit switching to serve mass-market customers. The

1		purpose of my testimony is to provide the appropriate, economically sound definition of
2		these "geographic areas" for this Commission's use in this proceeding. I am
3		specifically addressing Issues 1 and 2 in the issues list for this proceeding.
4		
5	Q.	WHAT IS THE ROLE OF THE GEOGRAPHIC MARKET DEFINITION IN AN
6		IMPAIRMENT ANALYSIS?
7		
8	А.	The FCC requires that, having defined "the markets in which they will evaluate
9		impairment by determining the relevant geographic area to include in each market," a
10		state commission must apply the impairment analysis required for unbundled local
11		switching for mass-market customers "on a granular basis to each identifiable market"
12		(TRO, ¶495).
13		
14		That is, having decided how to define the geographic markets, the Commission must
15		determine whether CLECs are impaired or not impaired at the level of these geographic
16		markets—no determination of impairment at a different geographic scale should be
17		made. Further, the same geographic area must be used for both the "triggers" analysis
18		and the "potential deployment" analysis that this Commission must perform.
19		
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# Q. DOES THE FCC PROVIDE GUIDANCE REGARDING THE DEFINITION OF THE APPROPRIATE GEOGRAPHIC AREAS TO BE USED IN A STATE COMMISSION'S IMPAIRMENT ANALYSIS?

4

5

A. Yes, it does. Section 51.319(d)(2)(i) provides that direction, stating:

Market definition. A state commission shall define the markets in which 6 7 it will evaluate impairment by determining the relevant geographic area 8 to include in each market. In defining markets, a state commission shall 9 take into consideration the locations of mass market customers actually 10 being served (if any) by competitors, the variation in factors affecting 11 competitors' ability to serve each group of customers, and competitors' 12 ability to target and serve specific markets profitably and efficiently using currently available technologies. A state commission shall not 13 14 define the relevant geographic area as the entire state.

15

Q. DR. PLEATSIKAS, GIVING APPROPRIATE CONSIDERATION TO THE
FCC'S DIRECTION, CAN YOU PROVIDE THE DEFINITION OF THE
GEOGRAPHIC MARKET THAT YOU BELIEVE THE COMMISSION
SHOULD APPLY IN THESE PROCEEDINGS?

20

A. Yes. Based on my considerations of the factors that the FCC has outlined, I recommend
that the Commission define as the relevant geographic markets in Florida the UNE rate
zones ("UNE Zones") that this Commission has defined previously, subdivided into
Component Economic Areas ("CEA") as defined by the Bureau of Economic Analysis,
a part of the United States Department of Commerce. I have attached as Pleatsikas

1		Exhibit No. CJP-2 a map that displays the 31 markets that exist in Florida as a result of						
2		using this definition.						
3								
4	Q.	WHY ARE THE COMMISSION'S UNE ZONES THE APPROPRIATE						
5		STARTING POINT FOR THE DEFINITION OF THE GEOGRAPHIC AREA?						
6								
7	A.	The FCC's discussion in its TRO suggested that state commissions might "consider						
8		how UNE loop rates vary across the state" in determining the geographic markets, and						
9		that UNE zones may therefore be a useful part of the market definition to use in this						
10		proceeding (TRO, ¶496).						
11								
12		Moreover, using UNE Zones as the basis for market definition is directly responsive to						
13		the TRO's Rule that I cited. UNE Zones reflect the "locations of mass-market						
14		customers actually being served by competitors." I understand that CLECs in Florida						
15		serve the greatest number of customers in the more urban UNE Zones 1 and 2 than in						
16		the more rural UNE Zone 3. UNE Zones also take into account the "variation in factors						
17		affecting competitors' ability to target and serve specific markets profitably," because						
18		loop rates are determined by UNE Zone, with higher UNE loop rates in areas that are						
19		more costly to serve. This variation in costs is an important factor in determining where						
20		a CLEC may be able to serve customers profitably because, although each CLEC will						
21		have to consider a number of company-specific factors in deciding where to offer						
22		services with its own switch, most CLECs will have to consider the cost of the						
23		unbundled loops used to connect end users to the CLECs' switches. Use of UNE Zones						
24		is therefore directly responsive to the TRO's guidance to "consider how competitors'						

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1		ability to use self-provisioned switches or switches provided by a third-party wholesaler
2		to serve various groups of customers varies geographically" (TRO, ¶ 495).
3		
4		In Florida, as in most other states, the Commission has divided the state into three
5		separate zones, with different unbundled loop rates in each zone. The price of a loop is
6		a factor a CLEC considers when determining where it will provide mass-market service
7		using its own switch. This is the behavior we have seen with CLECs using UNE-P,
8		whose rates also vary by UNE Zone. For example, according to one investment analyst,
9		AT&T takes a targeted approach to market entry and enters only those areas where its
10		UNE-P costs are at a 45 percent (or greater) discount to retail prices.
11		
12	Q.	WHY SHOULD UNE ZONES BE FURTHER SUBDIVIDED TO DEFINE THE
13		RELEVANT GEOGRAPHIC MARKETS IN FLORIDA?
14		
15	A.	The TRO repeatedly indicates the determination of impairment be "granular," i.e., that
16		the geographic areas chosen must be smaller than a state and should "attempt to
17		distinguish among markets where different findings of impairment are likely" (TRO,
18		¶495). In Florida, for example, there are local telephone subscribers located in UNE
19		Zone 1 in Miami, and there are local telephone subscribers located in UNE Zone 1 in
20		Jacksonville. Even though all of these customers are in the same UNE Zone, and
21		therefore a competitor would face the same UNE loop prices in both places, the two
22		areas are so geographically distant that the costs of transport could impact the ability to
23		consider these two distant locations to be a single market. That is not to say that UNE
24		Zones 1 in Miami and Jacksonville might not be a single market for some CLECs, but
25		to be granular in the assessment of impairment, it is necessary to further divide the UNE

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1		zones to account for other types of costs that separate Miami and Jacksonville into
2		distinct geographic markets. Having considered several alternatives, I find that
3		superimposing the Component Economic Areas (CEAs) on top of the UNE Zones
4		addresses issues such as this in an economically reasonable manner. I would note that
5		CEA boundaries follow county lines, and zones follow wire center boundaries. As a
6		result, sometimes a CEA boundary will split a wire center service area. In these
7		instances, the entire wire center is associated with the CEA in which the majority of the
8		wire center area falls. You can see an example of this by looking at Pleatsikas Exhibit
9		No. CJP-2 and particularly at the Orlando CEA. You will see that the Orlando CEA
10		Zone 2 market area actually extends across the CEA boundary into the Daytona Beach
11		CEA.
12		
13	Q.	WHAT IS A CEA?
13 14	Q.	WHAT IS A CEA?
13 14 15	<b>Q.</b> A.	WHAT IS A CEA? A CEA is one of 348 geographic areas defined by the U.S. government's Bureau of
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13 14 15 16 17	<b>Q.</b> A.	WHAT IS A CEA? A CEA is one of 348 geographic areas defined by the U.S. government's Bureau of Economic Analysis ("Bureau"). Each CEA comprises adjacent counties that are economically related, and collectively the 348 CEAs cover the entire United States.
13 14 15 16 17 18	<b>Q.</b> A.	WHAT IS A CEA? A CEA is one of 348 geographic areas defined by the U.S. government's Bureau of Economic Analysis ("Bureau"). Each CEA comprises adjacent counties that are economically related, and collectively the 348 CEAs cover the entire United States. The Bureau devised CEAs to define granular, economically meaningful geographic
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<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> </ol>	<b>Q.</b> A.	WHAT IS A CEA? A CEA is one of 348 geographic areas defined by the U.S. government's Bureau of Economic Analysis ("Bureau"). Each CEA comprises adjacent counties that are economically related, and collectively the 348 CEAs cover the entire United States. The Bureau devised CEAs to define granular, economically meaningful geographic areas that could be used, for example, by "government agencies [that] often use relatively small areas for design of their program regulations or implementation of their licensing programs," or by "businesses [that] need such detail for determining plant been used by the FCC for its geographical licensing schemes and used by the Bureau as
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> </ol>	<b>Q.</b> A.	WHAT IS A CEA? A CEA is one of 348 geographic areas defined by the U.S. government's Bureau of Economic Analysis ("Bureau"). Each CEA comprises adjacent counties that are economically related, and collectively the 348 CEAs cover the entire United States. The Bureau devised CEAs to define granular, economically meaningful geographic areas that could be used, for example, by "government agencies [that] often use relatively small areas for design of their program regulations or implementation of their licensing programs," or by "businesses [that] need such detail for determining plant locations and for defining sales and marketing territories." CEAs have, for example, been used by the FCC for its geographical licensing schemes and used by the Bureau as the basis for its local economic projections.

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Q.

#### HOW ARE CEAS DETERMINED?

2

3 A. The Bureau has described the process that it used to determine CEAs in the following 4 manner. The Bureau first identified "economic nodes," which are metropolitan (or similar) areas that serve as "centers of economic activity." The Bureau then assigned to 5 6 each node those counties that were "[the] most closely related." Thus, each CEA 7 consists of a single economic node and the surrounding counties that are economically 8 related to the node. Of the nodes, nationwide, 90 percent are in metropolitan areas, and 9 10 percent are in non-metropolitan areas. The resulting CEAs are continuous and cover 10 the entire country.

11

12 CEAs were created to be economically meaningful in that they separate various parts of 13 a state into different geographic markets based on economic factors (such as commuting 14 patterns and newspaper readership). Using the CEA creates a geographic area with a 15 community of interest. For example, because CEAs reflect newspaper circulation and 16 commuting patterns, a CLEC could choose to market in one CEA but not in another, 17 e.g., through print advertising and billboards. In short, my definition of the appropriate "geographic area" takes one concept that is relevant for this proceeding, namely the 18 19 UNE Zones, and subdivides those zones by another relevant geographic delimiter, the 20 CEA, to produce a set of granular, economically-meaningful markets consistent with 21 the TRO's guidance.

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- 25

1	Q.	ARE	THERE	OTHER	DEFINITIONS	OF	THE	RELEVANT	GEOGRAPHIC
2		MAR	KET TH	AT THE	COMMISSION (	COU	LD CO	<b>ONSIDER?</b>	

A. The answer is yes, in part. I believe that any definition that is not based on UNE Zones
would be inappropriate. However, once the decision to use UNE Zones is made, there
are other ways to subdivide the UNE Zones that the Commission could consider. I have
considered those that appear relevant, and have determined that UNE Zones subdivided
by CEAs is the most reasonable basis for defining geographic market for the present
purposes.

10

# 11 Q. COULDN'T THE COMMISSION SUBDIVIDE THE UNE ZONES BY 12 METROPOLITAN STATISTICAL AREAS ("MSAS")?

13

A. Yes it could. However, unlike CEAs, MSAs do not cover an entire state. For example,
of the 3,151 counties in the U.S., only 836 are part of an MSA. In contrast, all counties
are associated with a relevant CEA. Accordingly, if the Commission chose to use
MSAs (along with UNE Zones), parts of Florida would be excluded from consideration
in any impairment test.

19

# 20 Q. YOU HAVE DISCUSSED USING UNE ZONES SUBDIVIDED BY CEAS OR 21 MSAS. WHAT ABOUT USING SMALLER GEOGRAPHIC AREAS SUCH AS 22 WIRE CENTERS?

23

A. My conclusion is that using wire centers would be inconsistent with economic

25 principles and with the tenets established in the TRO. The FCC in its order said that the

states "should not define the market so narrowly that a competitor serving that market
alone would not be able to take advantage of available scale and scope economies from
serving a wider market" (TRO, ¶495). The FCC also required state commissions to take
into consideration the locations of mass-market customers actually being served by
competitors. A wire center level definition of the geographic market does not satisfy
either of these criteria and is therefore inappropriate.

To elaborate, CLECs today are not limiting the customers they serve from a single 8 9 switch to those located in a single wire center. Rather, they are casting their nets as 10 wide as economically feasible to take advantage of economies of scale. This 11 observation is consistent with actions the CLECs have taken to design and implement 12 their networks independent of the existing incumbent local exchange carrier's network 13 and wire centers. To use the language of the TRO, the ability to design a network to 14 take advantages of the relative economics of switching, loops and transport is one of the "countervailing advantages" that a new entrant may have (TRO at ¶84). 15

16

7

Q. WHAT SUPPORT DO YOU HAVE FOR THE PROPOSITION THAT CLECS
HAVE NOT BUILT THEIR NETWORKS TO SERVE CUSTOMERS BASED
ON WHERE THE CUSTOMERS ARE LOCATED IN RELATION TO THE
INCUMBENT LOCAL EXCHANGE COMPANY'S WIRE CENTERS?

21

A. I understand that the BellSouth witness discussing the "triggers" test has analyzed the
markets where CLEC switches and CLEC customers are located and has found that the
CLECs are serving customers in wire centers other than where their switches are
located. In addition, the CLECs have been very clear that they are not designing their

1		networks based on BellSouth's hierarchy of wire centers. For example, in the transcript					
2		of an arbitration between AT&T and BellSouth in Florida (Docket No. 000731-TP), the					
3		prefiled testimony of David L. Talbott, a witness for AT&T notes that AT&T deploys					
4		its switches consistent with the "costs and efficiencies of today's technologies." Mr.					
5		Talbott stated in his prefiled testimony that AT&T has deployed fewer switches and					
6		more transport on the end user side of the switch (Transcript Vol. 1, page 94). The					
7		witness was very clear that AT&T did not intend to replicate BellSouth's wire center-					
8		based architecture. AT&T also indicated in that proceeding that, even though it did not					
9		have as many switches as BellSouth, its switches were capable of serving every					
10		customer in BellSouth's geographic footprint.					
11							
12		Wire centers have been defined in terms of BellSouth's switch locations and the					
13		customers served by those switches. AT&T has chosen another approach, which is to					
14		serve customers in a wider geographic area with a single switch, as have any number of					
15		other CLECs. Therefore, the wire center concept has no meaning with regard to market					
16		definition, and specifically no economic meaning in terms of how CLECs provision					
17		services to their end users. The geographic scope of the service offered is limited by the					
18		CLEC's ability to economically serve those customers using the CLECs' network					
19		design, not by the location or span of BellSouth's wire centers.					
20							
21	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?					

23 A. Yes it does.

BellSouth Telecommunications Florida Public Service Commission Docket No. 030851-TP Pleatsikas Exhibit No. CJP-1 Page 1 of 4

# CHRISTOPHER J. PLEATSIKAS c/o LECG 2000 Powell Street, #600 Emeryville, CA 94608 510-653-9800

## **PROFESSIONAL EXPERIENCE**

Christopher Pleatsikas is a Principal at LECG. He also has been a principal at Putnam, Hayes & Bartlett, Inc. Dr. Pleatsikas has served as a manager of the Economic Analysis Unit, Management Advisory Services, at Price Waterhouse and was a managing associate at Urban Systems Research and Engineering, Inc. He has taught econometrics and quantitative methods at the University of Pennsylvania and the University of Maryland. Dr. Pleatsikas has been engaged in substantial academic research in and has written extensively on antitrust and competition issues. His recent papers include analyses of the interface between antitrust and regulatory policy, evaluation of the implications of standards for determining whether prices are predatory, assessments of the competitive implications of contractual provisions and arrangements and analyses of merger policies and regulations.

His major project experience includes: *antitrust/competition analysis* (mergers and acquisitions, market definition, assessments of market power, evaluation of contractual and other business practices, monopolization and attempted monopolization, monopoly leveraging, price fixing and price discrimination, predatory pricing, and evaluation of competition and efficiency impacts of business practices and public policy); *intellectual property* (patent/copyright/trademark infringement; valuation; patent fraud/misuse; pooling); *damages* (causation, lost sales or profits, reasonable royalty, unjust enrichment, punitive damages; breach of contract, fraud, intellectual property, class action certification and damages, antitrust and "unfair competition"); *regulation* (development of deregulation/re-regulation regimes; prudence inquiries, facility siting and planning, reasonableness of rates and ratebase, and demand forecasting).

Dr. Pleatsikas has been engaged in assignments covering a wide range of industries, although he has particular expertise in the high technology (computers, computer components, software, microprocessors and other semiconductors, semiconductor manufacturing equipment, medical technology, advanced electronic and electrical components, digital signal processing equipment and telecommunications equipment, pharmaceuticals and other specialty chemicals and biotechnology) and energy (oil, gas and coal extraction and processing, electricity and natural gas transmission, distribution and retailing, electricity generation, solar and geothermal energy generation) industries. In addition, he has extensive experience in a variety of other industries, including metals and metals processing, financial services and insurance, building materials, transportation, telecommunications services, food products, furniture and other household products, defense equipment, aircraft and air travel, and a variety of other consumer and BellSouth Telecommunications Florida Public Service Commission Docket No. 030851-TP Pleatsikas Exhibit No. CJP-1 Page 2 of 4

intermediate goods and services. He has also been co-director of an economic forecasting service.

Dr. Pleatsikas has testified and/or submitted testimony to courts and administrative bodies in the United States, Australia, New Zealand and the Republic of Singapore.

Dr. Pleatsikas has Ph.D. and M.A. degrees in Regional Economic Analysis from the University of Pennsylvania, an M.S. in Natural Resources from the University of Vermont and a B.A. from the University of Pennsylvania.

# **EDUCATION**

Ph.D., UNIVERSITY OF PENNSYLVANIA, Economics, (Regional Economic Analysis).M.S., UNIVERSITY OF VERMONT, Natural Resources.B.A., UNIVERSITY OF PENNSYLVANIA.

## **TESTIMONY, EXPERT REPORTS AND AFFIDAVITS**

Dr. Pleatsikas has testified on numerous occasions in a variety of venues, including:

- United States Federal Court
- United States State Courts (e.g., California, Louisiana)
- State Administrative Agencies (e.g., Public Utilities Commissions)
- United States Federal Administrative Agencies (e.g., International Trade Commission)
- Federal Court of Australia
- High Court of New Zealand
- High Court of the Republic of Singapore

Dr. Pleatsikas has also provided expert reports to foreign administrative agencies and has testified in private arbitrations. In addition, he has been retained as an expert on numerous occasions in other matters that were settled prior to trial or the provision of written or oral testimony. A list of his testimony is available on request.

## PUBLICATIONS AND PRESENTATIONS

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Christopher J. Pleatsikas Page 3 3 Philip McLeod and Chris Pleatsikas, "The California Electricity Crisis and Antitrust Analysis," Trade Practices Law Journal, 2002.

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