1		REBUTTAL TESTIMONY OF
2		DAVID L. KASERMAN
3		ON BEHALF OF AT&T COMMUNICATIONS OF
4		THE SOUTHERN STATES, INC.
5		BEFORE THE
6		FLORIDA PUBLIC SERVICE COMMISSION
7		Docket No. 9
8		Filed: August 30, 1996
9		
10		I. IDENTIFICATION OF WITNESS AND PURPOSE OF TESTIMONY
11		
12	Q.	PLEASE STATE YOUR NAME AND CURRENT POSITION.
13	А.	My name is David L. Kaserman. My position is Torchmark Professor of Economics
14		at Auburn University.
15		
16	Q.	HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS HEARING?
17	A .	Yes.
18		
19	Q.	WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
20	A .	My rebuttal testimony responds to several of the economic arguments made by two of
21		BellSouth's witnesses in this hearing. Specifically, the direct testimonies of Dr.
22		Richard Emmerson and Mr. Walter Reid contain some issues that I believe should be
23		brought to the attention of the Florida Commission in order to facilitate pro-
24		competitive arbitration decisions.
25		
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FPSC-RECORDS/REPORTING

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1		While much of these witnesses' testimony is rendered moot by the FCC's "Local
2		Competition Order" issued on August 8 th , it is, nonetheless, useful to identify and
3		correct at least some of the inaccuracies they contain. While the FCC Order provides
4		fairly specific guidelines, it leaves some latitude for state commissions to decide the
5		specific pricing and provisioning policies that will govern the contractual
6		arrangements that emerge from the arbitration process. These policies, in turn, will
7		have great importance to consumers, because they will influence strongly the pace at
8		which local exchange markets are transformed from monopoly to competition. As a
9		result, the FCC Order notwithstanding, it is important that the arbitration decisions
10		rendered by this Commission be founded squarely upon sound economic principles.
11		
12		II. REBUTTAL OF DR. EMMERSON'S TESTIMONY
13		
13 14	Q.	WHAT DOES THE FCC ORDER INDICATE REGARDING THE PRICES
	Q.	WHAT DOES THE FCC ORDER INDICATE REGARDING THE PRICES OF INTERCONNECTION ARRANGEMENTS AND UNBUNDLED
14	Q.	
14 15	Q. A.	OF INTERCONNECTION ARRANGEMENTS AND UNBUNDLED
14 15 16		OF INTERCONNECTION ARRANGEMENTS AND UNBUNDLED NETWORK ELEMENTS?
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- Q. GIVEN THIS REQUIREMENT, HOW DOES YOUR POSITION DIFFER
 FROM DR. EMMERSON'S POSITION ON THIS ISSUE?
 A. Our positions differ with respect to the magnitude of the appropriate mark-up above
- A. Our positions differ with respect to the magnitude of the appropriate mark-up above
 TSLRIC that is indicated by economic principles. Specifically, I believe that sound
 economic reasoning dictates a very small mark-up, while Dr. Emmerson appears to
 believe that a very substantial mark-up is justified economically.
- 8 Q. HAVE OTHER ECONOMISTS WHO HAVE WRITTEN ON THE SUBJECT
 9 OF EFFICIENT PRICING PROVIDED ANY GUIDANCE CONCERNING
 10 WHICH OF THESE POSITIONS IS CORRECT?
- A. Yes. The published (peer reviewed) literature on the subject of efficient pricing
 provides considerable guidance which unequivocally supports my position that any
 departure from strict TSLRIC pricing of these inputs should be held to an absolute
 minimum. At least three strands of that literature support this view. Specifically, the
 literature on (1) pricing in competitive markets, (2) efficient price structures, and (3)
 fully distributed cost pricing all suggest that regulators set the prices of these inputs
 as close as possible to marginal costs (or, as an approximation, TSLRIC).
- 18

7

19 Q. HOW DOES THE LITERATURE ON PRICING IN COMPETITIVE

MARKETS SUPPORT TSLRIC (OR NEAR-TSLRIC) PRICES?

A. The literature on pricing in competitive markets has long held that, in equilibrium,
 competitive prices will equal marginal costs.³ Indeed, given the assumptions of the
 competitive model, such pricing is necessary mathematically if firms are attempting to
 maximize their profits. While not disputing this fundamental proposition, Dr.
 Emmerson attempts to refute its applicability to the telecommunications industry by

1		arguing that it holds only for single-product firms. In footnote 3 on page 10 of his
2		testimony, Dr. Emmerson writes:
3		If a firm provides a single product, all of its costs are generally
4		included in a calculation of LRIC. Because the majority of the
5		economics literature implicitly or explicitly deals with single product
6		production, a casual reading of parts of the economics literature
7		would lead one to believe that competition drives prices toward
8		LRIC; this is true only for a single product firm.
9		Emphasis added.
10		
11		In fact, however, the literature on this subject shows just the opposite. In an article in
12		the American Economic Review in 1987, Glenn MacDonald and Alan Slivinsky
13		demonstrate unequivocally that, in long-run competitive equilibrium, multiproduct
14		firms with common costs will charge prices equal to the marginal costs of the
15		individual products. ⁴ Therefore, contrary to Dr. Emmerson's claim, the competitive
16		model benchmark of marginal cost pricing is not limited to single-product firms. It
17		carries over in full force to the multiproduct situation, even where substantial
18		common costs are present.
19		
20	Q.	HOW DOES THE LITERATURE ON EFFICIENT PRICE STRUCTURES
21		SUPPORT YOUR RECOMMENDATION OF PRICING
22		INTERCONNECTION AND UNBUNDLED NETWORK ELEMENTS
23		CLOSE TO TSLRIC?
24	A .	It has been widely recognized among economists for a very long time that, in
25		situations where marginal cost pricing of a regulated firm's output fails to yield
		4

1		sufficient revenue to cover that firm's total costs, the first-best efficient solution is to
2		set usage prices equal to marginal costs and recover any resulting revenue shortfall
3		from a lump-sum end-user charge. ⁵ This pricing structure, known generally as
4		nonlinear pricing or, in its simplest form, a two-part tariff, preserves the efficient
5		signals provided to consumers by marginal cost pricing while providing fully
6		compensatory returns to the regulated firm's overall activities.
7		
8		In the present application, this means that interconnection and unbundled elements
9		should be priced at (or near) TSLRIC; and if a revenue shortfall should materialize
10		(which I believe is a very unlikely event), it should be recovered through a
11		competitively neutral charge levied on final consumers. Thus, Dr. Emmerson's
12		statement on page 9 of his testimony that "forcing service prices equal to LRIC does
13		not allow for the recovery of the shared costs which are beneficial to society" is flatly
14		mistaken. (Emphasis added.) Setting prices equal to LRIC does, in fact, allow for
15		such recovery in an efficient and competitively neutral manner.
16		
17	Q.	HOW DOES THE LITERATURE ON FULLY DISTRIBUTED COST
18		PRICING SUPPORT THE RECOMMENDATION THAT ILEC-SUPPLIED
19		MONOPOLY INPUTS BE PRICED AT NEAR-TSLRIC LEVELS?
20	А.	When regulators set the prices charged by a multiproduct firm equal to TSLRIC plus
21		a substantial allocation of common costs, they are practicing what is known as fully
22		distributed (or fully allocated) cost pricing. In their recent monograph on local
23		exchange competition, William Baumol and Gregory Sidak define this pricing
24		approach as follows:
25		The fully distributed cost of product X is defined as the outlay per

1	unit of output X, including all expenses attributable to X alone, plus
2	some share of any common costs incurred on behalf of X and one or
3	more other outputs. ⁶
4	Clearly, this is precisely the pricing recommendation contained in Dr. Emmerson's
5	direct testimony.
6	
7	The economic literature, however, is highly critical of fully distributed cost pricing.
8	For example, Baumol and Sidak write that: "This traditional tool of price regulation
9	is now generally discredited and is increasingly being abandoned in regulatory
10	practice." ⁷ Similarly, Professor John Wenders writes:
11	The topic of costing is filled with sloppy thinking and rhetoric. Costs
12	can be discovered; costs can be identified; costs can be estimated; but
13	costs cannot be allocated. They are not a pie to be divided up among
14	customers. Never use the word allocated in the same sentence with
15	costs So much regulatory discussion of costs is crippled by the
16	idea of "allocating costs" that it is important to begin by purging
17	one's vocabulary. Costs can be caused, and costs can be avoided,
18	but they cannot be allocated. ⁸
19	Numerous other authors have criticized severely the practice of allocating common
20	costs among the regulated firm's services. ⁹
21	
22	The simple reason for this widespread criticism is that such cost allocations result in
23	substantial departures from marginal cost pricing, which, in turn, lead to significant
24	economic inefficiencies with attendant social welfare losses. Moreover, in the present
25	context, a substantial allocation of common costs to the prices of interconnection

1		arrangements and unbundled elements has the additional detrimental impact of
2		increasing the costs of new entrants into local exchange markets, thereby artificially
3		slowing the entry process and prolonging the monopoly status of the ILEC.
4		Therefore, the prices of these vital inputs should not be burdened with substantial
5		allocations of common costs. Rather, they should be kept as close as possible to the
6		incremental costs of supplying these inputs.
7		
8	Q.	DO THE ILECS HAVE INCENTIVES TO PUSH THE PRICES OF
9		INTERCONNECTION AND UNBUNDLED ELEMENTS ABOVE
10		ECONOMICALLY EFFICIENT LEVELS?
11	Α.	Yes. At least two incentives exist for ILECs to advocate input prices that exceed
12		their respective TSLRICs by considerable margins. First, these inputs are supplied
13		under monopoly or near monopoly conditions. In addition, the demands for them are
14		likely to be relatively price inelastic. Consequently, the profit-maximizing monopoly
15		mark-ups above marginal cost are likely to be large. Thus, the straightforward
16		pursuit of monopoly profits encourages the ILECs to advocate substantial mark-ups
17		above TSLRIC.
18		
19		Second, as noted above, because these inputs will be required by firms seeking to
20		enter local exchange markets, the higher these prices are set the longer the incumbent
21		supplier will be able to sustain its monopoly. In fact, prices that exceed TSLRIC
22		impose costs on new entrants that are not borne equally by incumbents. Therefore,
23		such prices constitute entry barriers that will retard the growth of competition. For
24		both of these reasons (more profits today and more profits tomorrow), ILECs have a
25		clear incentive to allocate a large portion of their costs (common or any other) to the
		-

prices of interconnection and unbundled elements.

2 DOES THE FCC'S RECENT ORDER PROVIDE ANY GUIDANCE 3 **Q**. CONCERNING THE MAGNITUDE OF THE COMMON COSTS THAT 4 ARE TO BE ALLOCATED TO THE PRICES OF INTERCONNECTION 5 AND UNBUNDLED NETWORK ELEMENTS? 6 7 Α. Yes. The Order provides considerable guidance on this issue. Specifically, the Order 8 clearly indicates that: (1) these input prices are to be based upon a TSLRIC (or, in 9 the FCC's terminology, TELRIC) pricing methodology, and (2) the deviation of these 10 prices from a strict TSLRIC approach due to the allocation of common costs should 11 be small. 12 13 Although the ILECs may attempt to read considerable latitude into the "reasonable 14 allocation" language in the Order, the FCC explicitly excludes elevations in input 15 prices above incremental cost that might emanate from a variety of potential sources. 16 For example, regardless of the veracity of claims regarding inadequate past 17 depreciation policies, the FCC has stated that inclusion of underdepreciated costs 18 (common or otherwise) into the price of unbundled elements and interconnection "is

not the proper remedy.^{"10} Also, whether "common" or not, the FCC has <u>explicitly</u>
rejected the recovery of embedded costs in the pricing of these inputs.¹¹ The FCC
also properly excludes recovery of retail-level "common" costs. Specifically, the
FCC states that "[T]he relevant common costs do not include billing, marketing, and
other costs attributable to the provision of retail service.^{"12} Inclusion of shared
facilities and operations are also not to be considered "common costs" to be tacked
onto the prices of vital inputs sold to the ILECs competitors.¹³ Specifically, the FCC

1 states that "[C]ertain shared costs that have conventionally been treated as common costs (or overheads) shall be attributed directly to the individual elements to the 2 greatest extent possible."¹⁴ The FCC also removes the prospect for recovery of such 3 costs on the basis of demand elasticity considerations.¹⁵ 4 5 Recovery of so-called "opportunity costs" associated with the ILEC's operations (as 6 defined by application of the Efficient Component Pricing Rule (ECPR)) are also 7 explicitly proscribed by the FCC as "improper." Inclusion of such costs are found by 8 the FCC to be different from those found in competitive markets and "would not lead 9 to efficient retail pricing."¹⁶ Any recovery of costs in excess of the stand-alone cost 10 of providing an unbundled element is also (properly) prohibited. Importantly, in this 11 regard, the FCC notes that there is likely to be only a "minimal difference" between 12 the forward looking incremental cost attributable to a particular element that excludes 13 common costs and the stand-alone costs that include all such costs in situations where 14 there are few common costs.¹⁷ The FCC also takes care to proscribe any mark-ups 15 16 above incremental cost that entail multiple recovery of common costs. Indeed, the FCC states that such mark-ups would be "unreasonable and in violation of the 17 statutory standard."¹⁸ The FCC also precludes mark-up of rates to include the costs 18 of supporting universal service. Specifically, the Commission states: 19 [P]ermitting states to include such costs in rates arbitrated under 20 sections 251 and 252 would violate the requirement [that universal 21

22 service support be recovered in an equitable and nondiscriminatory 23 manner] by requiring carriers to pay specified portions of such costs 24 solely because they are purchasing services and elements under 25 section 251.¹⁹

2In sum, the FCC has specifically excluded a variety of factors that would otherwise3be used by the ILECs to raise the price of unbundled network elements and4interconnection above incremental cost including:51.claims regarding inadequate depreciation of "common" costs;62.recovery of any embedded "common" costs;73.recovery of any retail-level "common" costs;84.recovery of "shared facilities and operations";95.demand elasticity considerations;106.recovery of "opportunity cost" associated with common costs;117.any recovery in excess of the stand-alone cost of assets;128.recovery of "the same common costs multiple times"; and139.recovery of the common costs used in the provision of universal service	;
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13 9. recovery of the common costs used in the provision of universal service	
14 (which would include the so-called carrier-of-last-resort obligation).	
15	
16 Q. DO ANY OTHER ASPECTS OF THIS ORDER SUGGEST THAT THE	
17 MAGNITUDE OF "COMMON COSTS" TO BE CONSIDERED IN THE	
18 PRICING DECISION SHOULD BE MINIMAL?	
19 A. Yes. At least three additional considerations suggest that the FCC contemplates on	у
20 minimal departures from incremental cost in the pricing of network elements and	
21 interconnection. First, the FCC has clearly stated that its approach to pricing is a	
22 "long-run, incremental cost methodology" for the establishment of prices for	
23 interconnection and unbundled network elements. ²⁰ Significant mark-ups to prices	
24 the basis of common costs is not consistent with a pricing approach that is labeled	n
25 "long run, incremental cost."	n

•		
2		Second, the FCC has embraced the notion of incremental cost calculations for
3		elements (i.e., TELRIC) rather than for services specifically because it reduces the
4		presence of common costs. ²¹ There are notable advantages to focusing on the
5		incremental cost of elements (TELRIC) as opposed to services (TSLRIC), not the
6		least of which is that it leaves very little common costs to be accounted for.
7		
8		Finally, the FCC has made it quite clear that any recovery of forward looking
9		common costs much be "consistent with the pro-competitive goals of the 1996 Act."22
10		But as I have noted and as the FCC has confirmed, it is incremental cost that
11		provides the competitive market standard against which to judge whether prices are
12		set "consistent with the pro-competitive goals of the 1996 Act."
13		
14		In sum, given these various constraints that are properly noted in the FCC's Report
15		and Order and the unambiguous pro-competitive tenor of the Telecommunications
16		Act, I expect that arbitrated prices for unbundled elements and interconnection will
17		reasonably approximate the economic benchmark that I established in my direct
18		testimony. That is, any allocation of common costs to these input prices should be
19		small.
20		
21		III. REBUTTAL OF MR. REID'S TESTIMONY
22		
23	Q.	HAVE YOU READ THE DIRECT TESTIMONY FILED BY MR. WALTER
24		REID IN THIS HEARING?
25	A .	Yes.

-		
2	Q.	AS AN ECONOMIST, DO YOU HAVE ANY CRITICISMS OF THAT
3		TESTIMONY?
4	A .	Yes. There are two aspects of that testimony that appear to conflict with the
5		economic concept of avoided costs. First, Mr. Reid apparently excludes much of
6		BellSouth's short-run fixed costs from his avoided cost calculations. That is, he
7		seems to focus largely if not exclusively on short-run variable (or direct) costs in
8		these calculations. Second, Mr. Reid takes the position that, if BellSouth continues to
9		incur a given cost (e.g., billing) in the provision of some other service (e.g.,
10		intraLATA toll), then that cost is not avoided even though the company will no longer
11		need to incur that cost to provide its local exchange service on a wholesale basis.
12		
13		Both of these arguments are economically invalid. As a result, Mr. Reid has failed to
14		include certain costs in his avoided cost calculations that, as an economic matter,
15		should be included. Consequently, his avoided cost numbers are biased downward.
16		
17	Q.	TURNING TO YOUR FIRST POINT, IS IT YOUR POSITION THAT A
18		PORTION OF THE COMPANY'S FIXED OR INDIRECT COSTS SHOULD
19		BE INCLUDED IN THE AVOIDABLE COST CALCULATION?
20	A .	Yes. Avoidable costs should include not only the short-run variable costs that will
21		immediately be eliminated by providing wholesale instead of retail services, but also
22		those costs that, while fixed in the short run, will nonetheless be avoided in the long
23		run as the ILEC adjusts its other inputs to this altered role. In the short run, costs
24		may be categorized as either "fixed" or "variable" (sometimes referred to as
25		"indirect" and "direct," respectively). In the long run, however, all costs are variable.

1		At some point, even the most durable equipment must be replaced and personnel
2		decisions at all levels of the corporate structure must respond to the level and type of
3		activities in which the firm is engaged. As a result, the ILEC should not be allowed
4		to exclude certain costs from its avoidable cost calculations simply because it has
5		chosen to focus upon some arbitrarily short time horizon.
6		
7		Economically, it is necessary to calculate avoidable costs on a long-run basis in order
8		to provide potential entrants efficient signals as to whether to enter the retail stage
9		through resale of wholesale services or through purchase of unbundled network
10		elements. By definition, entry decisions are long run in nature. Any reduction in the
11		wholesale discount caused by adopting a short-run focus will bias the entry decision
12		against the wholesale route. Such a regulatory-induced bias distorts new entrants'
13		investment decisions and slows the entry process.
14		
15	Q.	DOES THE FCC ORDER REQUIRE THE INCLUSION OF A PORTION OF
16		FIXED OR INDIRECT COSTS IN THE AVOIDED COST CALCULATION?
17	A .	Yes. Paragraph 912 of that Order states that:
18		We find that, under this "reasonably avoidable" standard discussed
19		above, an avoided cost study must include indirect, or shared, costs
20		as well as direct costs [I]ndirect or shared costs, such as general
21		overheads, support all of the LEC's functions, including marketing,
22		sales, billing and collection, and other avoided retail functions.
23		Therefore, a portion of indirect costs must be considered
24		"attributable to costs that will be avoided" pursuant to section
24 25		"attributable to costs that will be avoided" pursuant to section 252(d)(3).

1 Thus, the FCC has recognized the necessity of including avoidable fixed costs in the 2 avoided cost calculation.

4 Q. TURNING TO YOUR SECOND POINT, ARE YOU SUGGESTING THAT
5 CERTAIN COSTS BE INCLUDED IN THE AVOIDED COST
6 CALCULATION THAT ARE NOT ACTUALLY SHED BY THE ILEC
7 WHEN IT BECOMES A PROVIDER OF WHOLESALE SERVICES TO ITS
8 RETAIL-LEVEL COMPETITORS?

9 A. Yes. Any costs associated with the provision of local exchange services at the retail 10 stage that would no longer be incurred if the ILEC were to exit that market altogether, 11 and provide only wholesale services purchased by other firms which then perform all 12 retail-stage activities, should be incorporated in the avoided cost calculation. Under 13 this approach, new entrants will pay wholesale rates that accurately reflect the costs 14 that their entry and purchase decisions cause to be incurred.

15

3

In contrast, under Mr. Reid's proposed approach, described on page 10 of his 16 testimony, the ILEC could effectively force new entrants to pay a portion of the costs 17 of the firm's other (non-local exchange) activities as long as the ILEC can manage to 18 maintain some commercial relationship with its customers. In his example, the cost 19 of billing the customer would not be subtracted from the retail rate to arrive at a 20 21 wholesale rate, because the ILEC hypothetically continues to provide intraLATA toll 22 services to the customer. Under this approach, the new entrant attempting to compete with the ILEC at the retail stage in the local exchange market will pay a wholesale 23 24 rate to the ILEC that reimburses the ILEC the cost of billing the customer for toll calls. 25

1		
2		This is patently absurd. Not only does it artificially dampen the incentive to enter the
3		retail stage of the local exchange market as a reseller of ILEC-supplied wholesale
4		services, it also dampens competition in the intraLATA toll market by effectively
5		cross-subsidizing the ILEC's sales in that market. As a result, competition is harmed
6		in both markets.
7		
8	Q.	DO THE FCC RULES ADDRESS THIS ISSUE?
9	А.	Yes. The FCC Order clearly specifies that avoided costs are to be calculated on the
10		basis of retail-stage activities that would no longer be required if the ILEC were to
11		specialize in the provision of wholesale services only. That is, they are not to be
12		made contingent upon the costs that the ILEC actually sheds when it loses a customer
13		to a new entrant.
14		
15		Specifically, paragraph 911 of the Order states:
16		We find that "the portion [of the retail rate] attributable to costs
17		that will be avoided" includes all of the costs that the LEC incurs in
18		maintaining a retail, as opposed to a wholesale, business. In other
19		words, the avoided costs are those that an incumbent LEC would no
20		longer incur if it were to cease retail operations and instead provide
21		all of its services through resellers. Thus, we reject the arguments of
22		incumbent LECs and others who maintain that the LEC must
23		actually experience a reduction in its operation expenses for a cost to
24		be considered "avoided" for purposes of section 252(d)(3).
25		

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Thus, Mr. Reid's proposed approach is both unsound economically and ruled out by
 the FCC's avoided cost criteria. As a result, his avoided cost calculations are
 unreliable and should not be used as a basis for the Florida Commission's arbitration
 decision on this issue.
 DOES THAT CONCLUDE YOUR TESTIMONY?

7 A. Yes.

¹ Federal Communications Commission, <u>First Report and Order</u>, CC Docket Nos. 96-98 and 95-185, August 8, 1996, ¶ 672.

² First Report and Order, ¶ 682.

³ This is a standard result that appears in all or virtually all basic principles of economics textbooks. See, for example, Robert B. Ekelund, Jr., and Robert D. Tollison, <u>Economics</u>, 4th edition, Harper Collins College Publishers, New York, NY (1994), Chapter 9.

⁴ See Glenn M. MacDonald and Alan Slivinsky, "The Simple Analytics of Competitive Equilibrium with Multiproduct Firms," <u>American Economic Review</u>, Vol. 77 (December 1987), pp. 941-953.

⁵ See, e.g., Ronald H. Coase, "The Marginal Cost Controversy," <u>Economica</u>, Vol. 13 (1946), pp. 169-182; Robert D. Willing, "Pareto-Superior Nonlinear Outlay Schedules," <u>Bell Journal of Economics</u>, Vol. 9 (Spring 1978), pp. 56-69; Alfred E. Kahn, "The Road to More Intelligent Telephone Pricing," <u>Yale Journal on Regulation</u>, Vol. I (1984), pp. 139-57.

⁶ William J. Baumol and J. Gregory Sidak, <u>Toward Competition in Local Telephony</u>, The MIT Press, Cambridge, MA, 1994, p. 56.

⁷ Id., p. 56.

⁸ John T. Wenders, <u>The Economics of Telecommunications</u>: <u>Theory and Evidence</u>, Ballinger Publishing Company, Cambridge, MA (1987).

⁹ See William J. Baumol, Michael F. Kodhn, and Robert D. Willig, "How Arbitrary is 'Arbitrary'? – or, Toward the Deserved Demise of Full Cost Allocation," <u>Public Utilities Fortnightly</u>, Vol. 120, No. 5 (Sept. 3, 1987), p. 16; Ronald Braeutigam, "An Analysis of Fully Distributed Cost Pricing in Regulated Industries," <u>Bell Journal of Economics</u>, Vol. 11 (Spring 1980), pp. 182-196; George Sweeney, "Welfare Implications of Fully Distributed Cost Pricing Applied to Partially Regulated Firms," <u>Bell Journal of Economics</u>, Vol. 13 (1982), pp. 525-533; David L. Kaserman and John W. Mayo, <u>Government and Business: The Economics of Antitrust and Regulation</u>, Dryden Press, Ft. Worth, TX (1995), pp. 509-511.

¹⁰ First Report and Order, ¶ 706.

¹¹ First Report and Order, ¶ 704-707.

¹² First Report and Order, ¶ 694.

¹³ These expenses are to be directly included as part of the incremental cost measurement. <u>First</u> Report and Order, \P 682.

¹⁴ First Report and Order, ¶ 682.

¹⁵ <u>First Report and Order</u>, ¶ 696. "[W]e conclude that an allocation methodology that relies exclusively on allocating common costs in inverse proportion to the sensitivity of demand for various network elements and services may not be used."

¹⁶ <u>First Report and Order</u>, ¶¶ 708-712. "We conclude that ECPR is an improper method for setting prices of interconnection and unbundled network elements because existing retail prices that would be used to compute incremental opportunity costs under ECPR are not cost-based." (¶ 709)

¹⁷ First Report and Order, ¶ 698.

- ¹⁸ First Report and Order, ¶ 698.
- ¹⁹ First Report and Order, ¶¶ 712-715.
- ²⁰ First Report and Order, ¶ 620.
- ²¹ First Report and Order. ¶¶ 678 and 694.
- ²² First Report and Order, ¶ 696.