ORIGINAL

BEFORE THE

FLORIDA PUBLIC SERVICE COMMISSION

DIRECT TESTIMONY

OF

MICHAEL J. MAJOROS, JR.

ON BEHALF OF

AND

AT&T COMMUNICATIONS OF THE SOUTHERN STATES, INC.

AND

MCI TELECOMMUNICATIONS COMPANY

AND

MCI METRO ACCESS TRANSMISSION SERVICES, INC.

DOCKET NO. 960833-TP/960846-TP/971140-TP

November 13, 1997

FPSC-RECORDS/REPORTING

1		DIRECT TESTIMONY OF
2		MICHAEL J. MAJOROS, JR.
3		ON BEHALF OF
4		AT&T OF THE SOUTHERN STATES, INC. AND
5		MCI TELECOMMUNICATIONS COMPANY AND
6		MCI METRO ACCESS TRANSMISSION SERVICES, INC.
7		DOCKET NOs: 960833-TP/960846-TP/971140-TP
8		
9	Q.	PLEASE STATE YOUR NAME, POSITION AND BUSINESS ADDRESS.
10		
11	Α.	My name is Michael J. Majoros, Jr. I am Vice President of the economic
12		consulting firm of Snavely King Majoros O'Connor & Lee, Inc. ("Snavely
13		King"). My business address is 1220 L Street, N.W., Suite 410,
14		Washington, D.C. 20005.
15		
16	Q.	PLEASE DESCRIBE SNAVELY KING.
17		
18	Α.	Snavely King was originally founded in 1970 to conduct research on a
19		consulting basis into the rates, revenues, costs and economic
20		performance of regulated firms and industries. The firm has a
21		professional staff of 16 economists, accountants, engineers and cost
22		analysts. Most of the firm's work involves the development, preparation
23		and presentation of expert witness testimony before Federal and State DOCUMENT NUMBER-DATE
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FPSC-RECORDS/REPORTING

regulatory agencies. Over the course of the firm's 26-year history, its
 members have participated in over 500 proceedings before almost all of
 the state commissions and Federal commissions that regulate
 telecommunications companies, utilities. and transportation industries.

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6 Q. PLEASE DESCRIBE THE TYPE OF WORK YOU HAVE PERFORMED 7 WHILE AT SNAVELY KING.

8

9 Α. I have provided consultation specializing in accounting, financial and management issues. I have testified in over 80 regulatory proceedings. A 10 11 significant number of these appearances have related to the subject of telecommunications and public utility depreciation. Exhibit MJM-1 to this 12 testimony summarizes my appearances relating to depreciation. I have 13 14 also negotiated and/or represented various user groups in fifteen of the Federal Communications Commission's ("FCC's") three-way triennial 15 depreciation represcription conferences. Page 1 of MJM-2 identifies 16 I have also participated in several regulatory 17 those conferences. proceedings in which depreciation was an issue that was ultimately 18 settled. Page 2 of MJM-2 summarizes these proceedings. 19

20

21 Q. WHAT WAS YOUR EMPLOYMENT PRIOR TO JOINING SNAVELY 22 KING?

1	Α.	I joined Snavely King in 1981 and have been with the firm since that time.
2		My prior employment and educational background is summarized in
3		Exhibit MJM-3 to this testimony.
4		
5	Q.	FOR WHOM ARE YOU APPEARING IN THIS PROCEEDING?
6		
7	Α.	I am appearing on behalf of MCI Telecommunications Corporation ("MCI")
8		and AT&T Communications of the Southern States, Inc. ("AT&T").
9		
10	Q.	WAS THIS TESTIMONY PREPARED BY YOU OR UNDER YOUR
11		DIRECT SUPERVISION?
12		
13	Α.	Yes, it was. I should note, however, that this testimony and its analytical
14		framework draws heavily upon work performed by myself and others at
15		Snavely King on behalf of AT&T, MCI, and AT&T Canada LDS for use in
16		other proceedings.
17		
18	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
19		
20	Α.	AT&T and MCI have asked me to identify the appropriate plant lives to be
21		used in Total Element Long Run Cost ("TELRIC") and other incremental
22		cost studies. Specifically, I am to provide plant lives in conformance with
23		the FCC's requirements. ¹

1 Q. PLEASE SUMMARIZE YOUR RECOMMENDATIONS.

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A. I recommend that the projection lives and future net salvage values
underlying the depreciation rates prescribed by the FCC for BellSouth in
Florida as set forth in the FCC's 1995 prescription of BellSouth's
depreciation rates be used for the determination of cost based rates in this
proceeding.² A majority of this testimony addresses lives.

8

9 Q. DOES THE FCC SPECIFY THE PLANT LIVES TO BE USED IN THE 10 PRICING OF UNBUNDLED NETWORK ELEMENTS?

11

Yes, indirectly. The FCC rules require that only forward-looking costs be 12 Α. used in the setting of interconnection prices.³ The Florida Public Service 13 14 Commission's adoption of TSLRIC reflects a consistent conceptual Forward-looking costs require the use of economic 15 requirement. 16 depreciation rates.⁴ To comply with this requirement, the plant lives used 17 in the calculation of costs must be based upon the expected economic lives of newly placed plant.⁵ In depreciation proceedings, such plant lives 18 19 are termed "projection lives," to differentiate them from "remaining lives" and "average service lives" which reflect past plant placements. 20

21

22 Q. ARE BELLSOUTH'S CURRENT INTRASTATE DEPRECIATION RATES 23 BASED ON PROJECTION LIVES?

A. No. BellSouth's current intrastate depreciation rates are based on
 estimated remaining lives, and embedded plant and reserve balances as
 of December 31, <u>1991</u>. They are inappropriate for forward-looking cost
 studies.

5

6 Q. ARE THE FCC'S PROJECTION LIVES FORWARD-LOOKING?

7

A. Yes. Over a decade ago the FCC directed its staff to put less emphasis
on historic data in estimating productive lives, and to pay "closer attention
to company plans, technological developments and other future-oriented
analyses."⁶

12

Recently, the FCC reaffirmed its forward-looking orientation in connection 13 with the simplification of its depreciation represcription practices. The 14 15 FCC prescribed a range of projection lives which could be selected by 16 carriers for prescription on a streamlined basis. The ranges were based upon "statistical studies of the most recently prescribed factors. These 17 18 statistical studies required detailed analysis of each carrier's most recent retirement patterns, the carriers' plans, and the current technological 19 20 developments and trends."⁷ As such, this streamlined represcription 21 practice assures the development of projection lives that allow forward-22 looking capital recovery.

1	Q.	DO YOU BELIEVE THE FCC STAFF HAS FOLLOWED THE FCC'S
2		DIRECTIVE TO EMPHASIZE FORWARD-LOOKING ANALYSES?
3		
4	Α.	Yes. In my experience in fifteen FCC triennial represcription conferences
5		(including BellSouth represcription conferences), the FCC staff always
6		used a forward-looking approach to setting depreciation rates.
7		
8		The FCC staff rarely relied solely on historical data to set depreciation
9		parameters. The FCC bases its parameter prescriptions upon the studies
10		and information supplied by the individual companies, specific company
11		plans, information submitted by state commission staffs, consumer groups
12		and its broad industry-wide experience.
13		
14	Q.	IS THERE EMPIRICAL EVIDENCE THAT THE PROJECTION LIVES
15		PRESCRIBED BY THE FCC HAVE BEEN FORWARD-LOOKING?
16		
17	Α.	Yes. I would point to recent trends in the depreciation reserve levels in
18		the industry, generally, and BellSouth specifically. As the FCC has
19		recognized, "[t]he depreciation reserve is an extremely important indicator
20		of the depreciation process because it is the accumulation of all past
21		depreciation accruals net of plant retirements. As such, it represents the
22		amount of a carrier's original investment that has already been returned to
23		the carrier by its customers."8 The FCC's recognition of the reserve level

as an indicator of the depreciation process can best be understood by 1 examining a steady state example. 2 3 Assume that we start with a stable environment in which the average age 4 of plant is 9 years and the expected life of plant is 27 years. I have 5 assumed the addition rate, retirement rate and straight-line accrual rate 6 are all 3.7 percent (1/27), and the reserve level is stable at 33 percent of 7 plant in service (9 years/27 years).9 8 9 As we vary these factors, we can see the effect on the reserve level. For 10 11 example: 12 If the addition rate were to increase above 3.7 13 • percent, the reserve level would go down. 14 This 15 should not be a cause for concern, since the average 16 age of plant would similarly represent a lower percent of its expected life and the reduced reserve level is 17 anticipated in a growing environment. 18 19 20 If the retirement rate were to increase above 3.7 21 percent, the reserve level would also go down. This 22 would be a cause for concern, since it would indicate that the actual life of plant is shorter than previously 23

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expected. If the actual life is shorter the reserve should be higher, not lower than 33 percent.

If the accrual rate were to increase above 3.7
percent, the reserve level would go up. This would
not be appropriate absent a reduction in the actual life
of the plant, since it would indicate that the age of
plant is higher than 33 percent of its expected life
when, in fact, it is not, without a reduction to the
actual service life of plant.

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12 In summary, a declining reserve percent would be a reason for concern 13 absent indications that it is merely the result of growth in plant. On the 14 other hand, a rising reserve percent is generally a sign that accrual rates 15 anticipate increasing retirement levels. Indeed, absent indications that the 16 expected life of plant is decreasing, it might be a sign that accrual rates 17 are too high.

18

Exhibit MJM-4 to this testimony charts reserve levels and other plant rates
since 1944 for all local exchange carriers ("LEC's") providing full financial
reports to the FCC. As shown on Page 1 of Exhibit MJM-4, reserve
percents decreased steadily following World War II due to industry growth.
These declines continued through the 1970's due in part to accrual rates

which were too low.¹⁰ As shown on Page 1 of Exhibit MJM-4, however, the
FCC's change to forward-looking depreciation practices in the 1980s
resulted in a dramatic rise in reserve levels after 1980. The composite
reserve level rose from 18.7 percent in 1980 to an historic high of 47.1
percent in 1996. This track record indicates that the depreciation process
is resulting in adequate depreciation accruals, and that the FCC's
projection life estimates have been forward-looking and unbiased.

Confirmation of the forward-looking unbiased nature of current FCC 8 prescriptions can be gained by comparing the 1996 accrual rate of 9 7.2 percent (Exhibit MJM-4, Page 4, Column I) to the 1996 retirement 10 rate of 3.7 percent (Exhibit MJM-4, Page 4, Column k). The 11 prescription of an accrual rate much higher than the current retirement 12 rate indicates an expectation that the retirement rate will be much higher 13 in the future. If the FCC were prescribing depreciation rates based only 14 upon historical indicators, it would be prescribing depreciation rates in the 15 16 range of 3 to 5 percent.

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Exhibit MJM-5 confirms that these national LEC trends apply also to BellSouth. The depreciation reserve level for BellSouth has grown from 35.3 percent in 1990 to 48.9 percent in 1996. BellSouth depreciation rates have averaged 7.3 percent over the last seven years, while its retirement rates have averaged only 3.6 percent.

	Q.	HAVE TOU COMPAREL	D BELLSOUTH FLORIDA'S H				
2		AND RETIREMENT PA	TTERNS TO THE FCC'S PR	ESCRIBED LIVES			
3		AND RETIREMENT PAT	ITERNS?				
4							
5	Α.	Yes. Exhibit MJM-6 co	mpares BellSouth Florida's I	nistorical lives and			
6		retirement patterns to the	e FCC prescribed lives and ret	irement patterns for			
7		the major accounts. Pag	ge 1 of Exhibit MJM-6 is replic	ated below:			
8							
9		Comparis	on of Recent Life Indications				
10		to FCC-Prescribed Lives					
11			BellSouth Florida				
12							
13		Account Name	Recent Life Indications	FCC			
14		Prescribed					
15		Digital Switch	23.0	16.0			
16		Digital Circuit	11.0	10.5			
17		Aerial Cable-Metallic	25.0	18.0			
18		Underground-Metallic	32.0	23.0			
19		Buried Metallic	27.0	18.0			
20							
21		The FCC's prescribed p	projection lives are much shor	ter than the recent			
22		historical indications. Als	so, as shown on pages 2 to 6	6 of Exhibit MJM-6,			
		the ECC's prescribed ret	irement patterns are much mo	re accelerated than			

indicated by recent historical experience. In my opinion, on this basis
 alone, it is reasonable to conclude that the FCC's prescribed lives
 and retirement patterns as set forth in the FCC's most recent
 prescription of BellSouth Florida's depreciation rates are forward looking.

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Q. HAVE YOU SUMMARIZED THE FCC'S PRESCRIBED LIVES AND NET 8 SALVAGE VALUES FOR BELLSOUTH FLORIDA?

9

10 A. Yes. The FCC's most recently prescribed lives for BellSouth Florida are 11 summarized in on Exhibit MJM-7, which compares the FCC's range of 12 lives and future net salvage values in Columns (a) and (b) to its most 13 recent state-specific parameters for Florida in Column (c).

14

15 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

- 16
- 17 A. Yes, it does at this time.
- 18
- 19
- 20
- 21
- 22

¹ FCC, Implementation of the Local Competition Provisions in the Telecommunications Act of 1996, CC Docket No. 96-98, first Report and Order, FCC 96-325, released August 8, 1996 ("August 8 Order"), Appendix B ("Rules"). While the court has ruled that state commissions are not required to follow the FCC's rules, the detailed guidelines described by the FCC for the calculation of depreciation of unbundled network elements continue to represent sound economic costing principles and should be applied in the context of this proceeding.

² FCC Docket No. 95-1635.

³ Rules, 47 CFR § 51.505 (a).

⁴ Rules, 47 CFR § 51.505 (b) (3).

⁵ The economic life of an asset is its total revenue producing life. Public Utility Depreciation Practices, National Association of Regulatory Utility Commissioners, August 1996, p. 318.

⁶ Report on Telephone Industry Depreciation, Tax and Capital/Expense Policy, Accounting and Audits Division, Federal Communications Commission, April 15, 1987 ("AAD Report"), p. 8.

⁷ FCC, Simplification of the Depreciation Prescription Process, CC Docket No. 92-296 ("Prescription Simplification" proceeding) Third Report and Order, FCC 95-181, released May 4, 1995, p. 6.

⁸ AAD Report, pp. 5-6.

⁹ Reserves will stabilize at 33 percent assuming a triangular (straight-line) mortality curve. <u>See</u> Notes for Engineering Economics Courses, American Telephone and Telegraph Company, Engineering Department - 1966, p. 121.

¹⁰ AAD Report, p. 7.

Attachment 1 Page 1 of 3

MICHAEL J. MAJOROS, JR.

APPEARANCES BEFORE REGULATORY AGENCIES RELATED TO DEPRECIATION

STATE

New Jersey
District of Columbia
Maryland
District of Columbia
Pennsylvania
Maryland
Maryland
California
Pennsylvania
Pennsylvania
Pennsylvania
Maryland
Pennsylvania
Pennsylvania
Idaho
Maryland
Pennsylvania
lowa
District of Columbia
lowa
Florida

DOCKET NO.

815-458

785 7689

813 R-842621

7743 7851

1-85-03-78

R-850174 R-850178

R-850229

R-850268

R-860350 U-1022-59

C-860923

DPU-86-2

RPU-87-3

880069-TL

7899

7973

842

UTILITY

New Jersey Bell Telephone Co. Potomac Electric Power Co. Washington Gas Light Co. Potomac Electric Power Co. Western Pennsylvania Water Co. Potomac Edison Electric Co. Chesapeake & Potomac Tel. Co. Pacific Bell Telephone Co. Philadelphia Suburban Water Co. Pennsylvania Gas & Water Co. General Tel. of Pennsylvania Delmarva Power & Light Co. York Water Co. Dauphin Water Co. General Tel. of the Northwest Baltimore Gas & Electric Co. **Bell Telephone of Pennsylvania** Northwestern Bell Telephone Co. Washington Gas Light Co. Iowa Public Service Company Southern Bell Telephone

Docket No.: 960833-TP, 960846-TP Majoros Exhibit MJM-1 Attachment 1

Attachment 1 Page 2 of 3

STATE

District of Columbia lowa New Jersev Florida New Jersev New Jersey South Carolina Maryland Pennsylvania West Virginia New Jersey New Jersey Pennsylvania Kansas Indiana Nevada New Jersev Maryland West Virginia Maryland South Carolina Maryland Georgia **New Jersey** lowa lowa Connecticut Pennsylvania Arizona **New Hampshire**

DOCKET NO.

869 **RPU-88-6** 1487-88 890256-TL ER89110912 WR900050497J 92-227-C 8485 P-900465 90-564-T-D 90080792J WR90080884J R-911892 176,716-U 39017 91-5054 EE91081428 8462 91-1037-E-D 8464 92-227-C 8485 4451-U GR93040114 RPU-93-9 **RPU-94-3** 94-10-03 R-00953300 E-1032-95-417 et. al. DE 96-52

UTILITY

Potomac Electric Power Company Northwestern Bell Telephone Co. **Morris County Transfer Station** Southern Bell Telephone Jersey Central Power & Light Co. Elizabethtown Water Company Southern Bell Telephone Company Baltimore Gas & Electric Company United Tel. Co. of Pennsylvania C&P Telephone Co. Hackensack Water Co. Middlesex Water Company Philadelphia Suburban Water Kansas Power & Light Co. Indiana Bell Telephone Co. Central Telephone Co. - Nevada Public Service Elec. & Gas Co. C&P Telephone Co. Appalachian Power Company Potomac Electric Power Company Southern Bell - South Carolina Baltimore Gas & Electric Co. Atlanta Gas Light Company New Jersey Natural Gas Company U.S. West - Iowa Midwest Gas Southern New England Telephone Citizens Utilities Company **Citizens Utilities Company** New England Telephone

Attachment 1 Page 3 of 3

<u>STATE</u>

Iowa Ohio Michigan Michigan Wyoming Iowa Illinois Indiana Utah

DOCKET NO.

DPU-96-1 96-922-TP-UNC U-11280 U-11281 7000-TR-96-323 RPU-96-9 96-0486/0569 40611 97-049-08

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<u>UTILITY</u>

U S West - Iowa Ameritech - Ohio Ameritech - Michigan GTE North U S West - Wyoming U S West - Iowa Ameritech - Illinois Ameritech - Indiana US West - Utah

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MICHAEL J. MAJOROS, JR.

PARTICIPATION AS NEGOTIATOR IN FCC DEPRECIATION RATE REPRESCRIPTION CONFERENCES

COMPANY

Diamond State Telephone Co. Bell Telephone of Pennsylvania Chesapeake & Potomac Telephone Co. - Md. Southwestern Bell Telephone - Kansas Southern Bell - Florida Chesapeake & Potomac Telephone Co. - W. Va. New Jersey Bell Telephone Co. Southern Bell - South Carolina GTE-North - Pennsylvania

YEARS

1986

1986

1986

1989

1985 + 1988

1986 + 1989

1987 + 1990

1985 + 1988

1986 + 1989 + 1992

CLIENT

Delaware Public Service Commission PA Consumer Advocate Maryland People's Counsel Kansas Corp. Commission Florida Consumer Advocate West VA Consumer Advocate New Jersey Rate Counsel S. Carolina Consumer Advocate PA Consumer Advocate

Attachment 2 Page 2 of 2 • 1

MICHAEL J. MAJOROS, JR.

PARTICIPATION IN PROCEEDINGS IN WHICH DEPRECIATION WAS SETTLED BEFORE TESTIMONY WAS SUBMITTED

STATE

Maryland Nevada New Jersey New Jersey West Virginia Nevada Pennsylvania West Virginia West Virginia New Jersey New Jersey New Jersey Jersey

DOCKET NO.

7878 88-728 WR90090950J WR900050497J WR91091483 91-1037-E 92-7002 R-00932873 93-1165-E-D 94-0013-E-D WR94030059 WR95080346 WR95050219 WR95070303

UTILITY

Potomac Edison Southwest Gas New Jersey American Water Elizabethtown Water Garden State Water Appalachian Power Co. Central Telephone - Nevada Blue Mountain Water Potomac Edison Monongahela Power New Jersey American Water Elizabethtown Water Toms River Water Co. Hackensack Water Co. New

Michael J. Majoros

Attachment 3

Experience

Snavely King Majoros O'Connor & Lee, Inc. Washington, DC

Vice President and Treasurer (1988 to Present) Senior Consultant (1981-1987)

Mr. Majoros provides consultation specializing in accounting, financial, and management issues. He has testified as an expert witness or negotiated on behalf of clients in more than fifty regulatory proceedings involving telephone, electric, gas, water and sewerage companies. Mr. Majoros has appeared before Federal and state agencies. His testimony has encompassed a wide variety of complex issues including taxation, divestiture accounting, revenue requirements, rate base, nuclear decommissioning and capital recovery.

Mr. Majoros has been responsible for developing the firm's consulting services on depreciation and other capital recovery procedures into a major area of practice. He has also developed the firm's capabilities in the management audit area and most recently he established the firm's office in San Juan, Puerto Rico. Mr. Majoros established and manages the firm's Management Information Systems division.

Van Scoyoc & Wiskup, Inc., Washington, DC

Consultant (1978-1981)

Mr. Majoros performed various management and regulatory consulting projects in the public utility field, including preparation of electric system load projections for a group of municipally and cooperatively owned electric systems; preparation of a system of accounts and reporting of gas and oil pipelines to be used by a state regulatory commission; accounting system analysis and design for rate proceedings involving electric, gas, and telephone utilities. Mr. Majoros also assisted in an antitrust proceeding involving a major electric utility. He submitted expert testimony in FERC Docket No. RP79-12 (El Paso Natural Gas Company). In addition, he co-authored a Analysis of Staff Study on study entitled Tax Normalization which Comprehensive was submitted to FERC in Docket No. RM80-42.

Handling Equipment Sales Company, Inc., Landover, MD

Treasurer (1976-1978)

Mr. Majoros' responsibilities included financial management, general accounting and reporting, and income taxes.

Ernst & Ernst (now Ernst & Young), Baltimore, MD

Auditor (1973-1976)

Mr. Majoros was a member of the audit staff where his responsibilities included auditing, supervision, business systems analysis, report preparation, and corporate income taxes.

Central Savings Bank, Baltimore, MD

(1969-1971)

Mr. Majoros was an Assistant Branch Manager at the time he left the bank to attend college as a full-time student. During his tenure at the bank, Mr. Majoros gained experience in each department of the bank. In addition, he attended night school at the University of Baltimore.

Education

University of Baltimore, B.S. in Accounting

Professional Affiliations

American Institute of Certified Public Accountants

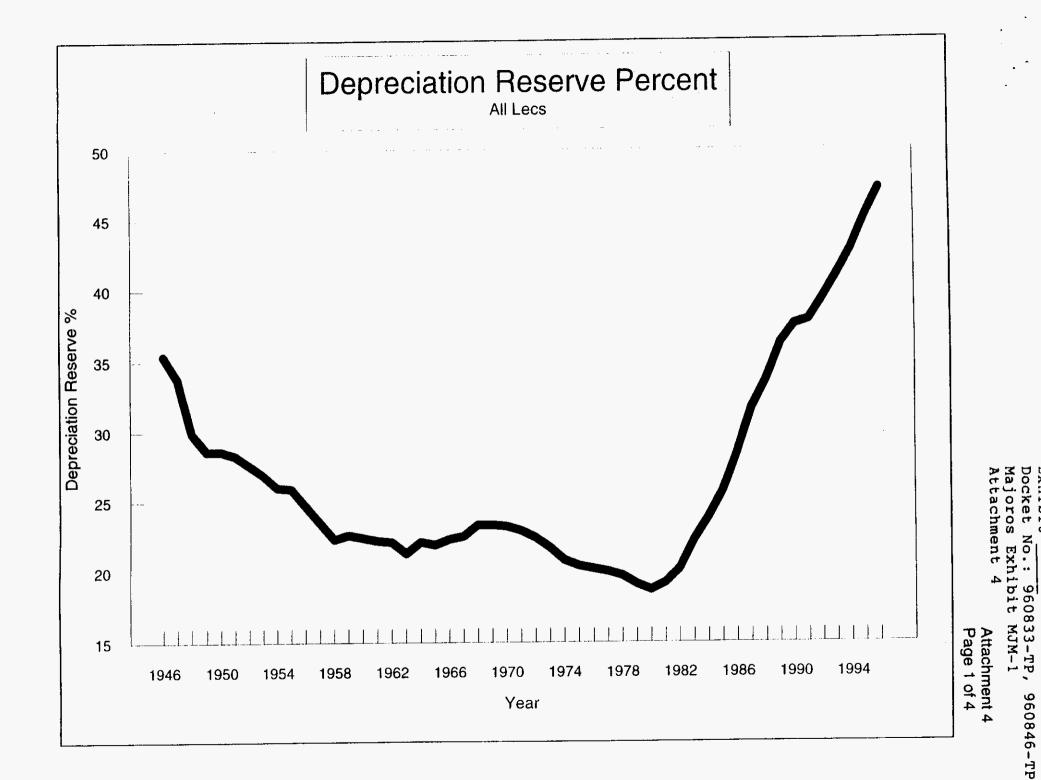
Maryland Association of C.P.A.s

Society of Depreciation Professionals

Publications

"Telephone Company Deferred Taxes and Investment Tax Credits – A Capital Loss for Ratepayers," Public Utility Fortnightly, September 27, 1984.

"The Use of Customer Discount Rates in Revenue Requirement Comparisons," Proceedings of the 25th Annual Iowa State Regulatory Conference, 1986



All LEC's Plant Related Rates (Dollars in Millions)

	Teleco				EOY AVG		Add	Retire	Deprec	Reserve			
	BOY (a)	EOY (b)	Average (c)=(a+b)/2	Increase (d) ≈ b-a	Add (e)	Ret (f)	Deprec (g)	Reserve (h)	Reserve (i)	Rate (j) = e/a	Rate (k) = f/a	Rate (I) = g/c	Percent (m) = h/b
1946		6,500	3,250	6,500				2,300					35.4
1947	6,500	7,400	6,950	900				2,500	2,400				33.8
1948	7,400	8,700.	8,050	1,300				2,600	2,550				29.9
1949	8,700	9,800	9,250	1,100				2,800	2,700				28.6
1950	9,800	10,500	10,150	700				3,000	2,900				28.6
1951	10,500	11,300	10,900	800				3,200	3,100				28.3
1952	11,300	12,300	11,800	1,000				3,400	3,300				27.6
1953	12,300	13,400	12,850	1,100				3,600	3,500				26.9
1954	13,400	14,600	14,000	1,200				3,800	3,700				26.0
1955	14,600	15,800	15,200	1,200				4,100	3,950				25.9
1956	15,800	17,400	16,600	1,600				4,300	4,200				24.7
1957	17,400	19,600	18,500	2,200				4,600	4,450				23.5
1958	19,600	22,000	20,800	2,400				4,900	4,750				22.3
1959	22,000	23,000	22,500	1,000				5,200	5,050				22.6
1960	23,000	25,000	24,000	2,000	2,700	700	1,100	5,600	5,400	11.7	3.0	4.6	22.4
1961	25,000	27,000	26,000	2,000	2,800	800	1,200	6,000	5,800	11.2	3.2	4.6	22.2
1962	27,000	29,000	28,000	2,000	2,900	900	1,300	6,400	6,200	10.7	3.3	4.6	22.1
1963	29,000	32,000	30,500	3,000	4,000	1,000	1,400	6,800	6,600	13.8	3.4	4.6	21.3
1964	32,000	34,000	33,000	2,000	2,900	900	1,600	7,500	7,150	9.1	2.8	4.8	22.1
1965	34,000	37,000	35,500	3,000	4,100	1,100	1,700	8,100	7,800	12.1	3.2	4.8	21.9
1966	37,000	40,000	38,500	3,000	4,100	1,100	1,900	8,900	8,500	11.1	3.0	4 <i>.</i> 9	22.3

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All LEC's Plant Related Rates (Dollars in Millions)

	Teleco BOY (a)	mmunicatio EOY (b)	ns Plant in Ser Average (c)=(a+b)/2	vice Increase (d) = b-a	Add (e)	Ret (f)	Deprec (g)	EOY Reserve (h)	AVG Reserve (i)	Add Rate (j) = e/a	Retire Rate (k) = f/a	Deprec Rate (I) = g/c	Reserve Percent (m) = h/b
1967	40,000	44,000	42,000	4,000	5,100	1,100	2,100	9,900	9,400	12.8	2.8	5.0	22.5
1968	43,249	47,123	45,186	3,874	5,104	1,230	2,304	10,979	10,440	11.8	2.8	5.1	23.3
1969	47,175	51,724	49,450	4,549	6,022	1,473	2,507	12,072	11,526	12.8	3.1	5.1	23.3
1970	51,723	56,951	54,337	5,228	6,880	1,651	2,751	13,213	12,643	13.3	3.2	5.1	23.2
1971	56,972	63,090	60,031	6,118	8,052	1,933	3,016	14,447	13,830	14.1	3.4	5.0	22.9
1972	63,068	69,870	66,469	6,802	9,044	2,242	3,330	15,643	15,045	14.3	3.6	5.0	22.4
1973	69,951	77,442	73,697	7,491	10,085	2,595	3,659	16,769	16,206	14.4	3.7	5.0	21.7
1974	77,107	84,888	80,998	7,781	11,024	3,243	4,047	17,685	17,227	14.3	4.2	5.0	20.8
1975	84,799	92,284	88,542	7,485	10,881	3,396	4,486	18,809	18,247	12.8	4.0	5.1	20.4
1976	92,591	99,879	96,235	7,288	11,139	3,856	4,934	20,163	19,486	12.0	4.2	5.1	20.2
1977	101,237	109,496	105,367	8,259	12,438	4,136	5,630	21,903	21,033	12.3	4.1	5.3	20.0
1978	109,502	119,336	114,419	9,834	14,549	4,681	6,199	23,474	22,689	13.3	4.3	5.4	19.7
1979	118,612	129,972	124,292	11,360	16,843	5,452	6,820	24,881	24,178	14.2	4.6	5.5	19.1
1980	129,767	142,096	135,932	12,329	18,694	6,378	7,804	26,512	25,697	14.4	4.9	5.7	18.7
1981	142,121	155,845	148,983	13,724	19,482	5,749	8,664	29,932	28,222	13.7	4.0	5.8	19.2
1982	155,907	168,075	161,991	12,168	18,466	6,409	9,757	33,957	31,945	11.8	4.1	6.0	20.2
1983	169,162	178,482	173,822	9,320	16,076	6,664	11,340	39,571	36,764	9.5	3.9	6.5	22.2
1984	152,315	159,798	156,057	7,483	14,994	4,994	10,048	37,996	38,784	9. 8	3.3	6.4	23.8
1985	174,218	186,294	180,256	12,076	18,972	6,687	11,469	43,837	40,917	10.9	3.8	6.9	25.7
1 98 6	186,972	198,758	192,865	11,786	18,907	6,954	13,142	51,543	47,690	10.1	3.7	7.5	28.4
1987	199,063	209,687	204,375	10,624	18,535	7,886	15,263	61,471	56,507	9.3	4.0	8.1	31.6

All LEC's Plant Related Rates (Dollars in Millions)

	Teleco	mmunicatio	ns Plant in Ser	vice				EOY	AVG	Add	Retire	Deprec	Reserve	
	BOY	EOY	Average	Increase	Add	Ret	Deprec	Reserve	Reserve	Rate	Rate	Rate	Percent	
	(a)	(b)	(c)=(a+b)/2	(d) = b-a	(e)	(f)	(g)	(h)	(i)	(j) = e/a	(k) = f/a	(I) = g/c	(m) = h/b	
1988	210,720	220,395	215,558	9,675	17,947	8,949	16,627	74,123	67,797	8.5	4.2	7.7	33.6	
1989	220,126	229,326	224,726	9,200	16,868	8,145	16,839	83,115	78,619	7.7	3.7	7.5	36.2	
1990	229,103	235,247	232,175	6,144	18,473	12,380	16,955	88,146	85,631	8.1	5.4	7.3	37.5	
1991	236,093	241,620	238,857	5,527	18,322	12,896	16,607	91,427	89,787	7.8	5.5	7.0	37.8	
1992	242,599	249,508	246,054	6,909	18,877	12,138	17,036	98,053	94,740	7.8	5.0	6.9	39.3	
1993	250,570	258,782	254,676	8,212	18,864	11,217	17,676	106,079	102,066	7.5	4.5	6.9	41.0	
1994	259,216	267,443	263,330	8,227	18,781	10,990	18,656	114,598	110,339	7.2	4.2	7.1	42.8	
1995	268,555	278,946	273,751	10,391	19,482	9,411	19,393	125,789	120,194	7.3	3.5	7.1	45.1	
1996	278,974	291,569	285,272	12,595	22,401	10,271	20,527	137,278	131,534	8.0	3.7	7.2	47.1	
Avg.	'60-'71									12.0	3.1	4.9		
	'72-'83									13.1	4.1	5.5		
	'84-'96									8.5	4.2	7.2		

Source: 1946 -1967 Report on Telephone Industry Depreciation, Tax and Capital/Expense Policy, Accounting and Audits Division, FCC, April 15, 1987, pp.6, 9

1968 - 1983 FCC Statistics of Common Carriers, Tables 12 and 16

1984 - 1987 FCC Statistics of Common Carriers, Tables 10 and 14

1988 - 1996 FCC Statistics of Common Carriers, Tables 2.7 and 2.9

Note 1: 1946 - 1983 Includes AT&T

Note 2: From FCC Statistics of Common Carriers, Table 14

Col I = 1985 Col g/165,076

1986 Col g/175,926 1987 Col g/187,920

- Col m = 1985 Col h/170,355
 - 1986 Col h/181,496
 - 1987 Col h/194,343

BellSouth Telephone Plant Related Rates

(Dollars in Millions)

_	Telecc	mmunicatio	ons Plant in Se	rvice			EOY	AVG.	Add	Retire	Deprec	Reserve	
	BOY	<u>EOY</u>	Average	Increase	Add	Ret	<u>Deprec</u>	<u>Reserve</u>	Reserve	<u>Rate</u>	<u>Rate</u>	Rate	Percent
	(a)	(b)	(c)=(a+b)/2	(d) = b-a	(e)	(f)	(g)	(h)	(i)	(j) = e/a	(k) = f/a	(l) = g/c	(m) = h/b
1990	32,462	34,216	33,339	1,754	3,026	1,272	2,506	12,063	11,378	9.3	3.9	7.5	35.3
1991	34,216	35,829	35,023	1,613	2,994	1,382	2,598	13,384	12,724	8.8	4.0	7.4	37.4
1992	36,034	37,644	36,839	1,610	2,768	1,159	2,615	15,096	14,240	7.7	3.2	7.1	40.1
IUUE	00,004	07,044	00,000	1,010	2,700	1,100	2,013	13,090	14,240	7.7	J.C	7.4	40.7
1993	37,644	39,445	38,545	1,801	3,142	1,341	2,811	16,669	15, 88 3	8.3	3.6	7.3	42.3
	~												
1994	39,445	41,095	40,270	1,650	3,143	1,493	2,919	18,203	17,436	8.0	3.8	7.2	44.3
1995	41,095	42,934	42,015	1,839	3,177	1,349	3,044	19,944	19,074	7.7	3.3	7.2	46.5
	,		12,010	1,000	0,111	1,040	0,011	10,044	10,074		0.0	,	
1996	42,934	45,318	44,126	2,384	3,731	1,347	3,174	22,176	21,060	8.7	3.1	7.2	48.9
A													Maj Att
Avg.										8.4	3.6	7.3	<u>ت</u> بې
													ach
													57.0

Source: Annual Report Form M, Tables B-1 and B-5, 1990-1991 ARMIS 43-02 Reports, Tables B-1 and B-5, 1992-1996

Note: Excludes Customer Premise Wiring

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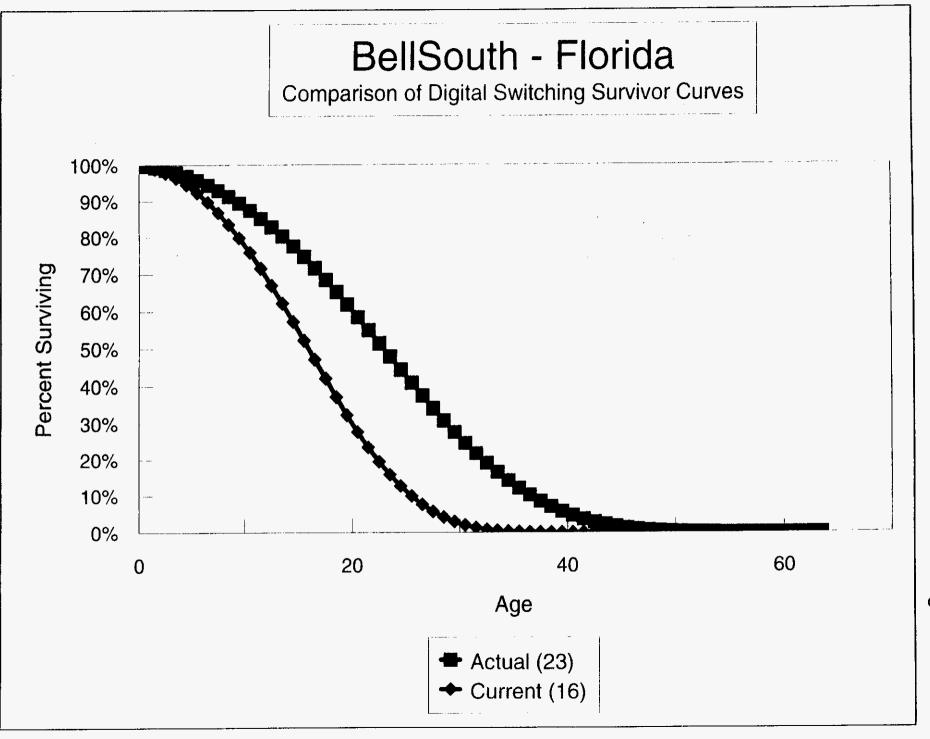
Comparison of Prescribed Life and Most Recent Life Indications

	· · · · · · · · · · · · · · · · · · ·	FCC Prescribed <u>Life 1/</u>	Recent Life Indication 2/
1	Digital Switch	16.0	23.0
2	Digital Circuit	10.5	11.0
3	Aerial Cable - Metallic	18.0	25.0
4	Underground Cable - Metallic	23.0	32.0
5	Buried Cable - Metallic	18.0	27.00

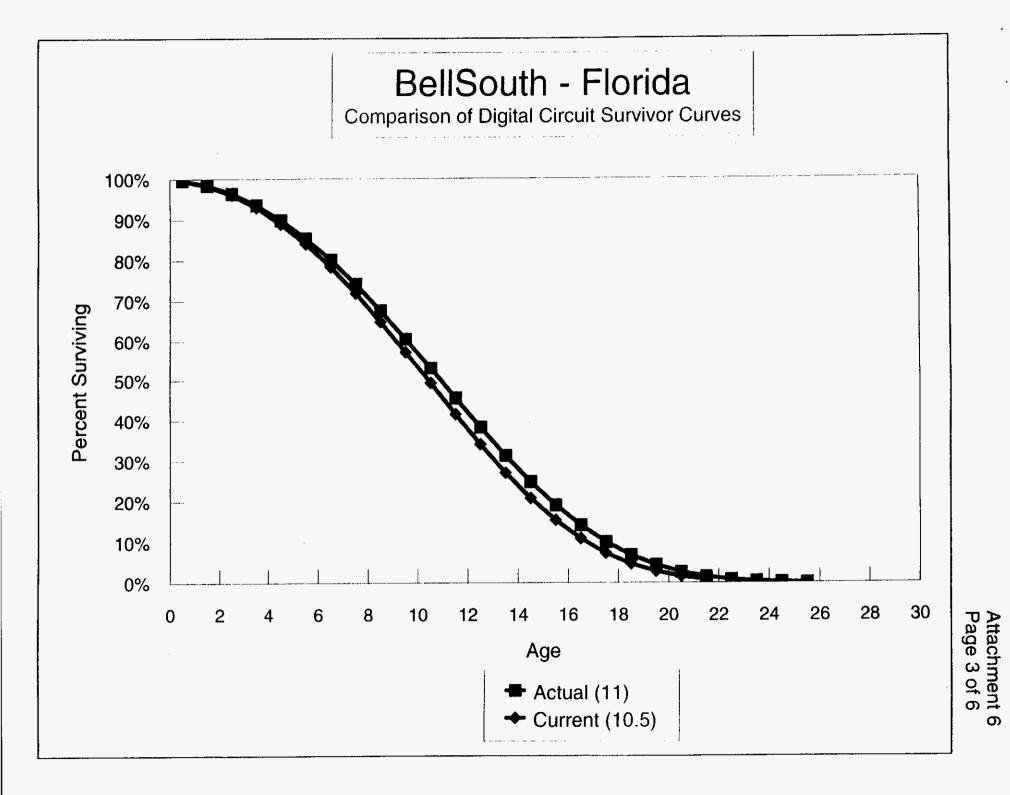
1/ FCC Parameter Report, July 20, 1995

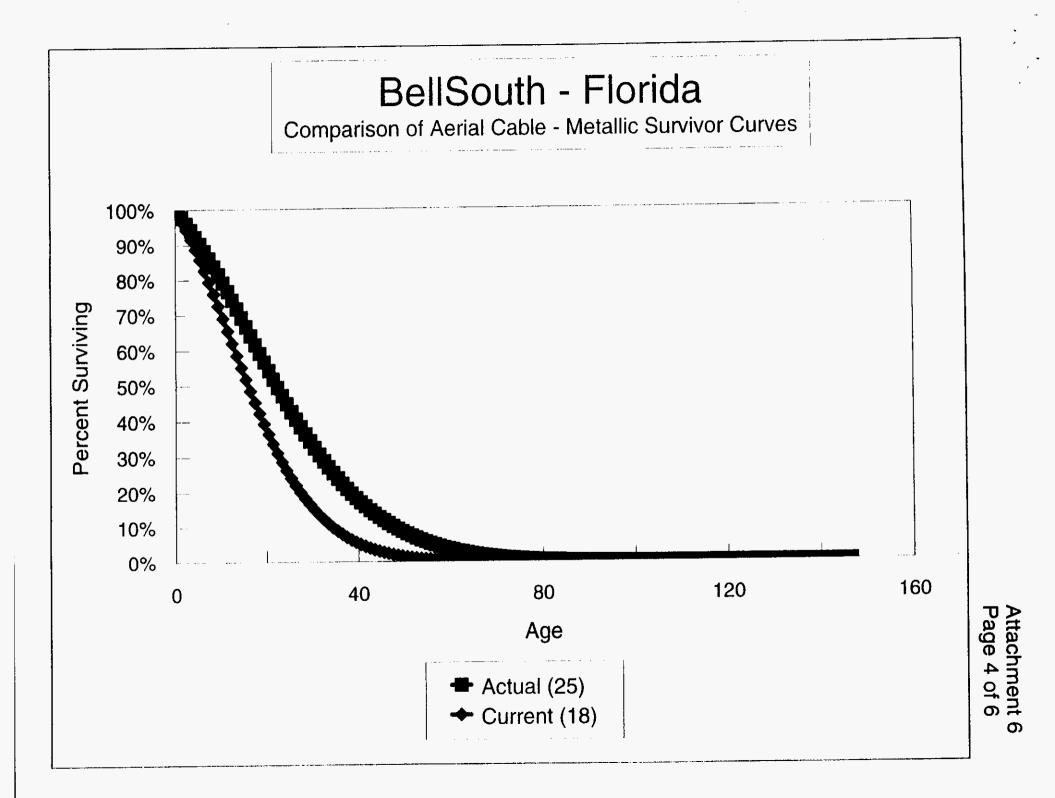
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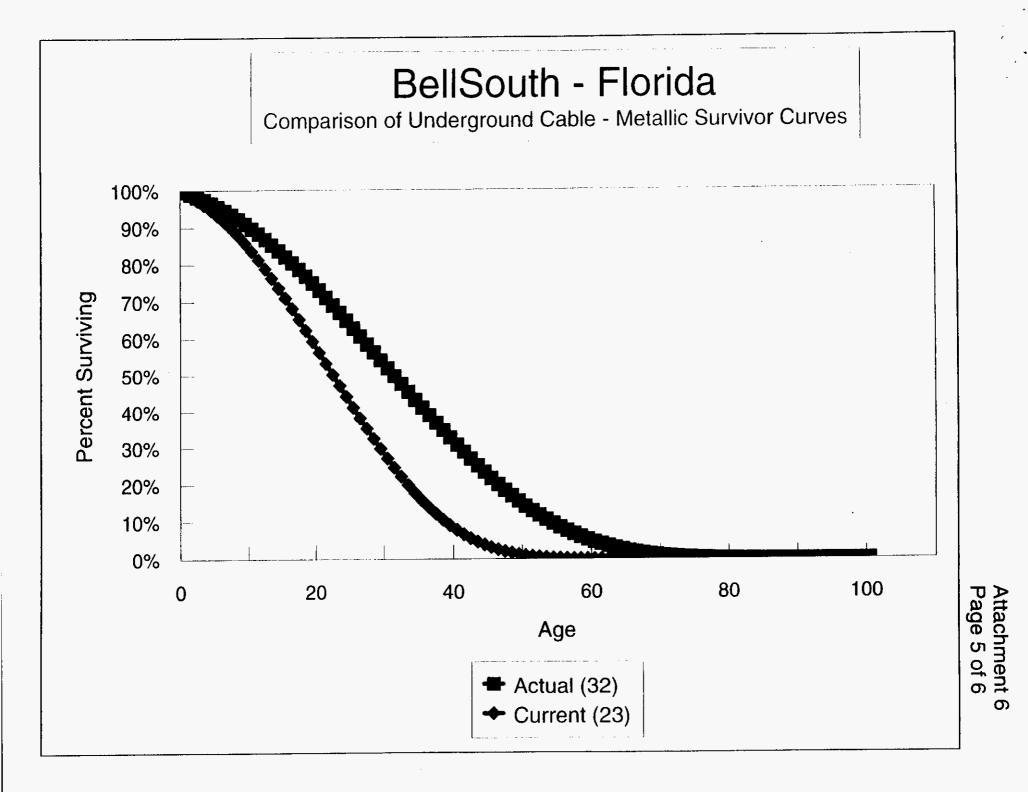
2/ Average of the most recent 3-year bands from BellSouth - Florida 1996 Depreciation Study

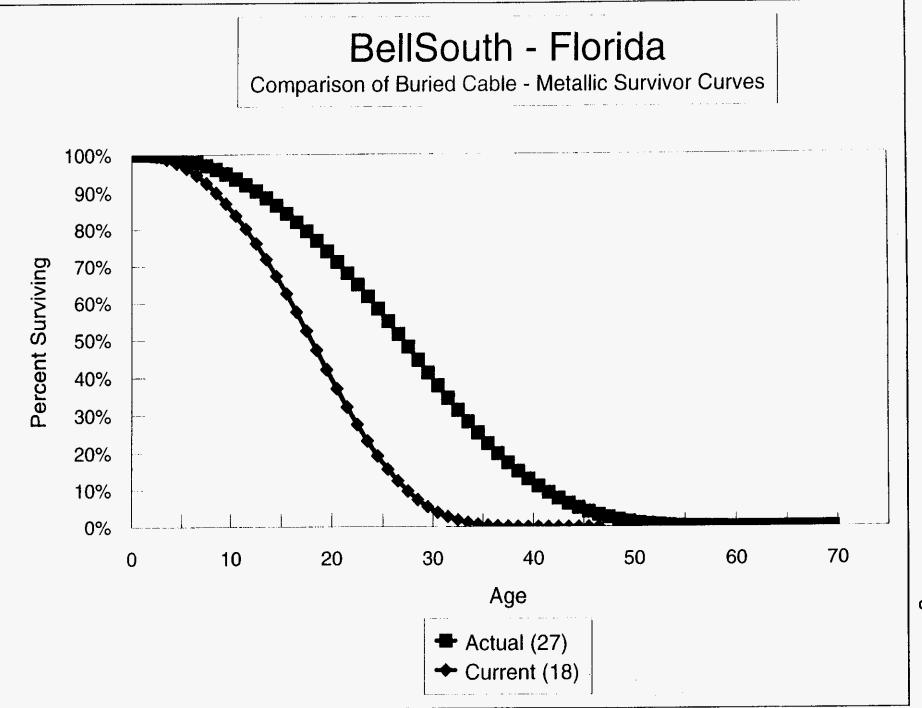


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Projection Life Comparison

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	Account <u>Number</u>	Account <u>Name</u>	FCC I <u>Low</u> (a)	Range <u>Hiqh</u> (b)	BS FL <u>FCC</u> (c)	BS FL <u>PSC</u> (d)
	2112	Motor Vehicles	7.5	9.5	7.5	
2	2115	Garage Work Eqpt	12.0	18.0	12.0	
3	2116	Other Work Eqpt	12.0	18.0	15.0	
4	2121	Buildings	N/A	N/A	48.0	
5	2122	Furniture	15.0	20.0	11.0	
6	2123.1	Ofc. Support Eqpt	10.0	15.0	10.5	
7	2123.2	Co. Comm. Eqpt	7.0	10.0	7.0	
8	2124	Gen. Purpose Computers	6.0	8.0	5.5	
9	2212	Digital Switching	16.0	18.0	16.0	
10	2220	Operator Systems	8.0	12.0	10.0	
11	2232	Digital Circuit	11.0	13.0	10.5	
12	2351	Public Telephones	7.0	10.0	7.0	
13	2411	Poles	25.0	35.0	35.0	
14	2421	Aerial Cable - Met	20.0	26.0	18.0	
15	2421	Aerial Cable - Fiber	25.0	30.0	25.0	
16	2422	Underground Cable - Met	25.0	30.0	23.0	
17	2422	Underground Cable - Fiber	25.0	30.0	25.0	
18	2423	Buried Cable - Met	20.0	26.0	18.0	
19	2423	Buried Cable - Fiber	25.0	30.0	25.0	
20	2426	Intrabidg Cable - Met	20.0	25.0	20.0	
21	2426	Intrabldg Cable - Fiber	25.0	30.0	20.0	
22	2441	Conduit Systems	50.0	60.0	55.0	

Source: Col a, b = FCC Docket No. 92-296 Orders released 6/28/94 and 5/4/95Col c = FCC Parameter Report, July 20, 1995 Col d = The Florida Public Service Commission did not prescribe projection lives.

Future Net Salvage Comparison

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	Account <u>Number</u>	Account <u>Name</u>	FCC I <u>Low</u> (a)	Range <u>High</u> (b)	BS FL <u>FCC</u> (c)	BS FL <u>PSC</u> (d)
1	2112	Motor Vehicles	10.0	20.0	10.0	14.0
2	2115	Garage Work Eqpt	0.0	10.0	0.0	N/A
3	2116	Other Work Eqpt	0.0	10.0	1.0	N/A
4	2121	Buildings	N/A	N/A	4.0	6.0
5	2122	Furniture	0.0	10.0	14.0	N/A
6	2123.1	Ofc. Support Eqpt	0.0	10.0	10.0	N/A
7	2123.2	Co. Comm. Eqpt	-5.0	10.0	10.0	N/A
8	2124	Gen. Purpose Computers	0.0	5.0	0.0	N/A
9	2212	Digital Switching	0.0	5.0	0.0	0.0
10	2220	Operator Systems	0.0	5.0	0.0	0.0
11	2232	Digital Circuit	0.0	5.0	0.0	2.0
12	2351	Public Telephones	0.0	10.0	10.0	20.0
13	2411	Poles	-75.0	-50.0	-75.0	-51.0
14	2421	Aerial Cable - Met	-35.0	-10.0	-11.0	~9.0
15	2421	Aerial Cable - Fiber	-25.0	-10.0	-11.0	0.0
16	2422	Underground Cable - Met	-30.0	-5.0	-7.0	0.0
17	2422	Underground Cable - Fiber	-20.0	-5.0	-6.0	2.0
18	2423	Buried Cable - Met	-10.0	0.0	-8.0	-4.0
19	2423	Buried Cable - Fiber	-10.0	0.0	0.0	3.0
20	2426	intrabldg Cable - Met	-30.0	-5.0	-12.0	-9.0
21	2426	Intrabldg Cable - Fiber	-15.0	0.0	-12.0	-5.0
22	2441	Conduit Systems	-10.0	0.0	-7.0	-5.0

Source: Col a, b = FCC Docket No. 92-296 Orders released 6/28/94 and 5/4/95 Col c = FCC Parameter Report, July 20, 1995 Col d = FPSC Order No. PSC-93-0462-FOF-TL, Attachment A